




**PEC University of Technology, Sector-12, Chandigarh**

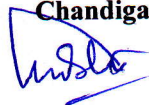
**Memo No:**

**Dated:**

**CERTIFICATE**

This is to certify that all information provided in the Institutional Development Proposal of PEC University of Technology, Chandigarh, UT, is factually correct.

  
**Director  
PEC University of Technology  
Chandigarh**



  
6/5

PEC University of Technology, Chandigarh  
(A Deemed University under Section 3 of UGC Act, 1956)  
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Heritage 1921

# **Institutional Development Proposal**

**Under Sub-component 1.2**

**Scaling-up Post Graduate Education and Demand Driven  
R&D&I**

**(TEQIP-II)**

**2015**



**PEC UNIVERSITY OF TECHNOLOGY**

**(A Deemed to be University)**

**(Formerly Punjab Engineering College)**

**CHANDIGARH-160 012**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME**

**(TEQIP) (PHASE-II)**

**INSTITUTIONAL DEVELOPMENT PROPOSAL**

**for**

**Sub-Component 1.2: Scaling-up Postgraduate Education and  
Demand-Driven Research & Development and Innovation**

**Part – I**

**Institutional Basic Information**

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# 1 INSTITUTIONAL BASIC INFORMATION

## 1.1 Institutional Identity:

- Name of the Institution : PEC University of Technology  
Deemed University  
(Formerly Punjab Engineering College)
- Is the Institution AICTE approved? : MHRD, UGC Approved
- Furnish AICTE approval no. : Deemed to be University  
**(Annexure – I & II)**
- Type of Institution : Govt. funded
- Status of Institution : Autonomous Institute as declared (Deemed to be  
University) under section 3 of UGC

**(Annexure – I & II)**

## Names of Heads of Institution and Project Nodal Officers

| Heads and Nodal Officers                      | Names                | Phone Number s                | Mobile Numbers | F ax Numb ers    | E-mail Addresses       |
|---|----------------------|-------------------------------|----------------|------------------|------------------------|
| Head of the Institution (Full time appointee) | Dr Manoj K. Arora    | 2753051<br>2753700<br>2746074 | 9872577544     | 0172-<br>2745175 | director@pec.ac.in,    |
| TEQIP Coordinator                             | Sh. Sanjay Batish    | 2753911                       | 98761033706    | ---do---         | sbatish@pec.ac.in      |
| TEQIP Co-Coordinator                          | Dr. Sanjeev Kumar    | 2753260                       | 9466326131     |                  | sanjeev@pec.ac.in      |
|   | Dr. Poonam Saini     | 2753859                       | 9417535469     |                  | poonamsaini@pec.in     |
| <b>Project Nodal Officers for:</b>            |                      |                               |                |                  |                        |
| Academic Activities                           | Prof. Parveen Kalra  | 2753286                       | 9815773242     | ---do---         | parveenkalra@pec.ac.in |
| Civil Works including Environment             | Prof. Roshan Lal     | 2753361                       | 9888212539     | ---do---         | roshanlal@pec.ac.in    |
|   | Prof. S.K. Suman     | 2753059                       | 6429273347     |                  |                        |
| Procurement                                   | Dr. Sanjeev Kumar    | 2753260                       | 9466326131     | ---do---         | sanjeev@pec.ac.in      |
| Financial Aspects                             | Mr. Khagesh Bhandari | 2748198<br>2753056            | 9988091147     | ---do---         | ddo@pec.ac.in          |
| Equity Assurance Plan Implementation          | Dr Sanjeev Sofat     | 2753053                       | 9814741410     | ---do---         | <u>dd@pec.ac.in</u>    |



## a. ACADEMIC INFORMATION

### I (a) Engineering programmes offered in Academic year 2014-15

| S. No | Title of programmes                          | Level | Duration (Years) | Year of Starting | AICTE Sanctioned annual intake | Total Student Strength (2014-15) |
|-------|--|-------|------------------|------------------|--------------------------------|----------------------------------|
| 1     | B.E (Aeronautical Engg.)                     | UG    | 4 years          | 1960             | 30+8 (NRI)                     | 80                               |
| 2     | B.E (Civil Engg.)                            | UG    | 4 years          | 1947*            | 75+9 (NRI)                     | 263                              |
| 3     | B.E (Comp Sc. & Engg.)                       | UG    | 4 years          | 1988             | 75+15 (NRI)                    | 218                              |
| 4     | B.E (Electrical Engg.)                       | UG    | 4 years          | 1947*            | 75+9 (NRI)                     | 265                              |
| 5     | B.E (Electronics & Electrical Communication) | UG    | 4 years          | 1967             | 75+15 (NRI)                    | 291                              |
| 6     | B.E (IT)                                     | UG    | 4 years          | 2000             |                                | 67                               |
| 7     | B.E (Mechanical Engg.)                       | UG    | 4 years          | 1947*            | 75+15 (NRI)                    | 293                              |
| 8     | B.E (Metallurgical Engg.)                    | UG    | 4 years          | 1967             | 60+2 (NRI)                     | 158                              |
| 9     | B.E (Production Engg.)                       | UG    | 4 years          | 1965             | 40+2 (NRI)                     | 115                              |
|       | <b>Total</b>                                 |       |                  |                  | <b>505+ 75 (NRI)</b>           | <b>1750</b>                      |

**(b) Post Graduate engineering programmes offered in Academic year 2014-15**

| S. No | Title of programmes  | Level PG | Duration (Years) | Year of starting | AICTE sanctioned annual intake | Total Student Strength (2014-15) |
|-------|--|----------|------------------|------------------|--------------------------------|----------------------------------|
| 1     | Civil Engg. (Structures)   | ME       | 2 Years          | 1964             | 18+ 2 +3                       | 38                               |
| 2     | Civil Engg. (Irrigation & Water Resource)                                | ME       |                  | 1959             | 18+ 2 +3                       | 34                               |
| 3     | Civil Engg. (Transportation)   | ME       |                  | 2003             | 18+2+3                         | 38                               |
| 4     | Environmental Engg.  | ME       |                  | 1989             | 18+ 2 +3                       | 23                               |
| 5     | Mechanical Engg.   | ME       |                  | 1959             | 25+ 2 +3                       | 53                               |
| 6     | Electrical Engg.   | ME       |                  | 1959             | 25+ 2 +3                       | 50                               |
| 7     | Electronics Engg.  | ME       |                  | 1995             | 25+ 2 +3                       | 49                               |
| 8     | Electronic VLSI Design   | ME       |                  | 1996             | 18+ 2 + 3                      | 37                               |
| 9     | Industrial Materials & Metallurgy  | ME       |                  | 1996             | 18+ 2 + 3                      | 35                               |
| 10    | Production & Industrial Engg.  | ME       |                  | 1995             | 18+ 2 + 3                      | 38                               |
| 11    | Computer Science & Engg.   | ME       |                  | 2002             | 25+ 2 +3                       | 53                               |
| 12    | Computer Science & Engg. (Information Security) on self-supporting basis | ME       |                  | 2010             | 25+2+3                         | 42                               |
| 13    | Industrial Design on self-supporting basis                               | ME       |                  | 2011             | 18+2+3                         | 27                               |
| 14    | Total Quality Engineering & Management (TQEM) on self-supporting basis   | ME       |                  | 2011             | 18+3                           | 14                               |
|       | <b>Total</b>   |          |                  |                  | <b>287+26+42=355</b>           | <b>531</b>                       |

Each programme is for 18/25 Full Time, +2 Part Time +3 Sponsored students \*Total Strength counts for both years (first and second) = 531 students

Degree is awarded by PEC Univ. Of Technology but Programme is run by faculty of PEC & CDAC, Mohali.

**(c) Ph.D Programmes offered in Academic year 2014-15**

| <b>S. No</b> | <b>Title of programmes</b>              | <b>Level Ph.D.</b> | <b>Duration (Years)</b> | <b>Year of Starting</b> | <b>AICTE Sanctioned annual intake</b> | <b>Total Student Strength (2014-15)</b> |
|--------------|---|--------------------|-------------------------|-------------------------|---------------------------------------|---|
| 1            | Aeronautical Engg.                      | Ph.D               |                         | 2006                    |                                       | 07                                      |
| 2            | Applied Science Engg.                   | Ph.D               |                         |                         |                                       | 21                                      |
| 3            | Civil Engg.                             | Ph.D.              |                         | 2006                    |                                       | 33                                      |
| 4            | Comp Sc. & Engg.                        | Ph.D               |                         | 2006                    |                                       | 24                                      |
| 5            | Electronics & Electrical Communication. | Ph.D               |                         | 2006                    |                                       | 21                                      |
| 6            | Electrical Engg.                        | Ph.D               |                         | 2006                    |                                       | 25                                      |
| 7            | Mechanical Engg.                        | Ph.D               |                         | 2006                    |                                       | 41                                      |
| 8            | Metallurgical Engg.                     | Ph.D               |                         | 2006                    |                                       | 05                                      |
| 9            | Production Engg.                        | Ph.D               |                         | 2006                    |                                       | 28                                      |
|              | Total                                   |                    |                         |                         |                                       | 205                                     |

\*Total Full-time and part-time students admitted in 2014-15 are 205.

**II. (a) Accreditation Status of UG programmes****(Annexure -III)**

| Sl. No | Title of UG programmes being offered         | Whether eligible for accreditation or not? | Whether accredited as on 31st March 2010? | Whether “Applied for” as on 31st March 2015? |
|--------|--|--|---|--|
| 1      | B.E (Aeronautical Engg.)                     | YES  | YES                                       | Accredited                                   |
| 2      | B.E (Civil Engg.)                            | YES  | YES                                       | Accredited                                   |
| 3      | B.E (Comp Sc. & Engg.)                       | YES  | YES                                       | Accredited                                   |
| 4      | B.E (Electrical Engg.)                       | YES  | YES                                       | Accredited                                   |
| 5      | B.E (Electronics & Electrical Communication) | YES  | YES                                       | Accredited                                   |
| 6      | B.E (Mechanical Engg.)                       | YES  | YES                                       | Accredited                                   |
| 7      | B.E (Metallurgical Engg.)                    | YES  | YES                                       | Accredited                                   |
| 8      | B.E (Production Engg.)                       | YES  | YES                                       | Accredited                                   |

**(b) Accreditation Status of PG programmes****(Annexure-IV)**

| Sl. No | Title of PG programmes being offered                                     | Whether eligible for accreditation or not? | Whether accredited as on 31st March 2015? | Whether “Applied for” as on 31st March 2015? |
|--------|--|--|---|--|
| 1      | Civil Engg. (Structures)   | YES  | NO  | Applied for*                                 |
| 2      | Civil Engg. (Irrigation & Water Resource)                                | YES  | NO  | Applied for*                                 |
| 3      | Civil Engg. (Transportation)   | YES  | NO  | Applied for*                                 |
| 4      | Environmental Engg.  | YES  | NO  | Applied for*                                 |
| 5      | Mechanical Engg.   | YES  | NO  | Applied for*                                 |
| 6      | Electrical Engg.   | YES  | NO  | Applied for*                                 |
| 7      | Electronics Engg.  | YES  | NO  | Applied for*                                 |
| 8      | Electronic VLSI Design   | YES  | NO  | Applied for*                                 |
| 9      | Industrial Materials & Metallurgy  | YES  | NO  | Applied for*                                 |
| 10     | Production & Industrial Engg. Engg.                                      | YES  | NO  | Applied for*                                 |
| 11     | Computer Science & Engg.   | YES  | NO  | Applied for*                                 |
| 12     | Computer Science & Engg. (Information Security) on self-supporting basis | YES  | NO  | Applied for*                                 |
| 13     | Industrial Design on self-supporting basis                               | YES  | NO  | Applied for*                                 |
| 14     | Total Quality Engineering & Management (TQEM) on self-supporting basis   | YES  | NO  | Applied for*                                 |

### 1.3 Faculty Status (Regular/On-Contract Faculty as on March 31<sup>st</sup>, 2015)

| Faculty Rank             | No. of Sanctioned Regular Posts | Present Status : Number in Position by Highest Qualification |    |                   |   |                         |    |                   |    |                         |    |                   |    | Total Number of regular faculty in Position | Total Vacancies | Total Number of contract faculty in Position |
|--------------------------|---------------------------------|--|----|-------------------|---|-------------------------|----|-------------------|----|-------------------------|----|-------------------|----|---|-----------------|--|
|                          |                                 | Doctoral Degree  |    |                   |   | Masters Degree          |    |                   |    | Bachelor Degree         |    |                   |    |   |                 |  |
|                          |                                 | Engineering Disciplines                                      |    | Other Disciplines |   | Engineering Disciplines |    | Other Disciplines |    | Engineering Disciplines |    | Other Disciplines |    |   |                 |  |
|                          |                                 | R  | C  | R                 | C | R                       | C  | R                 | C  | R                       | C  | R                 | C  |   |                 |  |
| 1                        | 2                               | 3  | 4  | 5                 | 6 | 7                       | 8  | 9                 | 10 | 11                      | 12 | 13                | 14 | 15=<br>(3+5+7+9+11+13)                      | 16=<br>(2-15)   | 17=<br>(4+6+8+10+12+14)                      |
| Prof                     | 24                              | 11   | -  | 02                | - | -                       | -  | -                 | -  | -                       | -  | -                 | -  | 117   | 45              | 19   |
| Asso Prof                | 49                              | 29   | -  | 6                 | - | 15                      | -  | 02                | -  | -                       | -  | -                 | -  |   |                 |  |
| Asst Prof                | 88                              | 16   | -  | 02                | - | 29                      | 1* | 03                | -  | 1**                     | -  | -                 | -  |   |                 |  |
| Associate Superintendent | 01                              | -  | -  | -                 | - | -                       | -  | -                 | -  | 01                      | -  | -                 | -  |   |                 |  |
| Contractual Faculty      | -                               | -  | 03 | -                 | - | -                       | 11 | -                 | 04 | -                       | -  | -                 | -  |   |                 |  |
| <b>Total</b>             | 162                             | 56   | 03 | 10                | - | 44                      | 12 | 05                | 04 | 02                      | -  | -                 | -  |   |                 |  |

Prof = Professor, Asso Prof = Associate Professor, Asst Prof = Assistant Professor, Lec=Lecturer, R=Regular, C=Contract

\* 01 post of Assistant Professor is temporary and likely to continue as long as the Self Supported ME (Information Security) course continues. The appointment will be for a minimum period of three years.

\*\* 01 Assistant Professor on Adhoc.

Note:

Post adjusted against the vacant post of Associate Professor  
 Post adjusted against the vacant post of Assistant Professor

**01 System Manager**  
**02 Network Administrator**

**1.4 Baseline Data (all data given for the following parameters must be restricted to engineering disciplines/ field only)**

| Sr. No | Parameters  |                                 |
|--------|---|---------------------------------|
| 1      | Total strength of students in all programmes and all years of study in the year 1988-2009-10  | 1988                            |
| 2      | Total women students in all programmes and all years of study in the year 2009-10   | 337                             |
| 3      | Total SC students in all programmes and all years of study in the year 2009-10  | 264                             |
| 4      | Total ST students in all programmes and all years of study in the year 2009-10  | 34                              |
| 5      | Total OBC students in all programmes and all years of study in the year 2009-10   | *                               |
| 6      | Number of fully functional P4 and above level computers available for students in the year 2009-10  | 450                             |
| 7      | Total number of text books and reference books available in library for UG and PG students in the year 2009-10  | 1,12,180                        |
| 8      | % of UG students placed through campus interviews in the year 2009-10   | 91%                             |
| 9      | % of PG students placed through campus interviews in the year 2009-10   | 17%                             |
| 10     | % of high quality under Graduates (>75% marks) in the year 2009-10  | 34.28%                          |
| 11     | % of high quality postgraduates (>75% marks) in the year 2009-10  | 36.53 %                         |
| 12     | Number of research publications in Indian refereed journals in the year 2009-10   | 3<br>5                          |
| 13     | Number of research publications in International refereed journals in the year 2009-10  | 30                              |
| 14     | Number of patents obtained in the year 2009-10  | Nil                             |
| 15     | Number of patents filed in the year 2009-10   | Nil                             |
| 16     | Number of sponsored research projects completed in the year 2009-10   |                                 |
| 17     | The transition rate of students in 2009-10 in percentage from 1 <sup>st</sup> year to 2 <sup>nd</sup> year in the 2009-10.<br>(i) all students<br>(ii) SC<br>(iii) ST<br>(iv) OBC | 93.35%<br>90.38%<br>62.50%<br>* |
| 18     | IRG from students fee and other charges in the year 2009-10 (Rs. in lakh)   | 987.00                          |
| 19     | IRG from externally funded R&D projects, Consultancies in the year 2009-10 (Rs. in lakh)  | 164.00                          |
| 20     | Total IRG in the year 2009-10 (Rs. in lakh)   | 1151.00                         |
| 21     | Total annual recurring expenditure of the applicant entity in the year 2009-10 (Rs. In lakh)  | 2366                            |
| 22     | Number of Joint publications with National authors in the year 2009-10  | 03                              |
| 23     | Number of Joint publications with International authors in the year 2009-10   | 01                              |
| 24     | Number of R&D products commercialized in the year 2009-10   | Nil                             |
| 25     | Number of joint MTech programmes with institutions undertaken in the year 2009-10.  | Nil                             |

|    |  |     |
|----|--|-----|
| 26 | Number of joint MTech programmes with Industry undertaken in the year 2009-10. | 01  |
| 27 | Number of joint PhD with institutions undertaken in the year 2009-10           | Nil |
| 28 | Number of joint PhD with Industry undertaken in the year 2009-10               | Nil |
| 29 | Number of joint consultancies undertaken with institutions in the year 2009-10 | Nil |
| 30 | Number of joint consultancies undertaken with Industry in the year 2009-10     | 262 |

\* There is no separate reservation for OBC students till date

**1.4 Baseline Data (all data given for the following parameters must be restricted to engineering disciplines/ field only)**

| Sr. No | Parameters  |                                    |
|--------|---|------------------------------------|
| 1      | Total strength of students in all programmes and all years of study in the year 2014-15   | 2485                               |
| 2      | Total women students in all programmes and all years of study in the year 2014-15   | 581                                |
| 3      | Total SC students in all programmes and all years of study in the year 2014-15  | 331                                |
| 4      | Total ST students in all programmes and all years of study in the year 2014-15  | 53                                 |
| 5      | Total OBC students in all programmes and all years of study in the year 2014-15   | *                                  |
| 6      | Number of fully functional P4 and above level computers available for students 800 in the year 2014-15  | 800 (every student has own laptop) |
| 7      | Total number of text books and reference books available in library for UG and 1,20,591 PG students in the year 2014-15                                   | 1,20,591                           |
| 8      | % of UG students placed through campus interviews in the year 2014-15   | 71.54%                             |
| 9      | % of PG students placed through campus interviews in the year 2014-15   | 24.22%                             |
| 10     | % of high quality under Graduates (>75% marks) in the year 2014-15  | 44.28%                             |
| 11     | % of high quality postgraduates (>75% marks) in the year 2014-15  | 56.53 %                            |
| 12     | Number of research publications in Indian refereed journals in the year 2014-15   | 119                                |
| 13     | Number of research publications in International refereed journals in the year 2014-15  | 173                                |
| 14     | Number of patents obtained in the year 2014-15  | Nil                                |
| 15     | Number of patents filed in the year 2014-15   | Nil                                |
| 16     | Number of sponsored research projects completed in the year 2014-15   |                                    |
| 17     | The transition rate of students in 2014-15 in percentage from 1st year to 2nd year in the 2014-15.<br>(i) all students<br>(ii) SC<br>(iii) ST<br>(iv) OBC | 93.35%<br>90.38%<br>62.50%<br>*    |
| 18     | IRG from students fee and other charges in the year 2014-15 (Rs. in lakh)   | 1732.84                            |
| 19     | IRG from externally funded R&D projects, Consultancies in the year 2014-15 (Rs. in lakh)  | 35.59 & 91.00 (in lacs)            |
| 20     | Total IRG in the year 2014-15 (Rs. in lakh)   | 2025.84                            |
| 21     | Total annual recurring expenditure of the applicant entity in the year 2014-15 (Rs. In lakh)  | 3736.00                            |
| 22     | Number of Joint publications with National authors in the year 2014-15  | 12                                 |
| 23     | Number of Joint publications with International authors in the year 2014-15   | 17                                 |
| 24     | Number of R&D products commercialized in the year 2014-15   | Nil                                |
| 25     | Number of joint MTech programmes with institutions undertaken in the year 2014-15   | Nil                                |
| 26     | Number of joint MTech programmes with Industry undertaken in the  | 01                                 |



|    |  |     |
|----|--|-----|
|    | year 2014-15   |     |
| 27 | Number of joint PhD with institutions undertaken in the year 2014-15           | Nil |
| 28 | Number of joint PhD with Industry undertaken in the year 2014-15               | Nil |
| 29 | Number of joint consultancies undertaken with institutions in the year 2014-15 | Nil |
| 30 | Number of joint consultancies undertaken with Industry in the year 2014-15     | 221 |

\* There is no separate reservation for OBC students till date

**1.5 Institutions to be eligible for participation in the Project under the Sub - component 1.2 must fulfill the following benchmarks:**

**Table-33**

**Benchmarks for Institutions to Qualify for Sub-component-1.2**

| S. No. | Attainment Parameters   | Bench mark values | Institution's response (Yes/No)              |
|--------|---|-------------------|--|
| 1.     | Does the institution agree to implement all academic and non-academic reforms given as below: <ul style="list-style-type: none"> <li>• Implementation of curricular reforms</li> <li>• Exercise of autonomies</li> <li>• Establishment of Corpus Fund, Faculty Development Fund, Equipment Replacement Fund and Maintenance Fund</li> <li>• Generation, retention and utilization of revenue generated through variety of activities</li> <li>• Institutions to fill-up all existing teaching and staff vacancies</li> <li>• Delegation of decision making powers to senior Functionaries with accountability</li> <li>• Improve student performance evaluation</li> <li>• Improvement performance appraisal of faculty by students</li> <li>• Provide faculty incentive for Continuing Education (CE), consultancy and R&amp;D</li> <li>• Obtaining accreditation</li> </ul> | Yes               | Yes  |
| 2.     | Availability of academic autonomy as recognized by UGC for both UG and PG programmes  | Yes               | Yes (Annexure-I, IIA, IIB & V)               |
| 3.     | Presence of Board of Governors with an eminent academician or industrialist as the Chairperson  | Yes               | Yes (Annexure-VI)                            |
| 4.     | Percentage of eligible UG programmes accredited <del>or applied for</del>   | 60%               | 100 % (Annexure-III)                         |
| 5.     | Percentage of eligible PG programmes <del>accredited or applied for</del>   | 40%               | Applied for (Annexure-IV)                    |
| 6.     | Cumulative number of PhDs produced in the last three academic years (2010-11, 2011-12, 2012-13, 2013-14 and 2014-15)<br>or<br>Cumulative number of MTech produced in the last three academic years (2010-11, 2011-12, 2012-13, 2013-14 and 2014-15)   | 5<br><br>50       | 33 (Annexure-VII)<br><br>771 (Annexure-VIII) |
| 7.     | Faculty positions filled on regular full time basis as percentage of total faculty positions sanctioned in accordance with the AICTE prescribed student to faculty ratio  | 65%               | 77%  |

|    |   |     |        |
|----|---|-----|--------|
| 8. | Percentage of regular faculty with PhD in engineering* as percentage of total faculty | 15% | 41% ** |
|----|---|-----|--------|

Total Regular Faculty =117 Total Students=2485

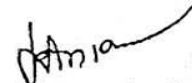
\*\*Percentage of regular faculty with PhD in engineering\* as percentage of total faculty=  $66/162=40.77$

Government of India  
Ministry of Human Resource Development  
Department of Secondary & Higher Education  
\* \* \*

Shastri Bhawan, New Delhi.  
16<sup>th</sup> October 2003

NOTIFICATION

In exercise of the powers conferred by Section 3 of the University Grants Commission Act, 1956, the Central Government, on the advice of the University Grants Commission, hereby declare the Punjab Engineering College, Chandigarh as Deemed to be University for the purpose of the aforesaid Act with immediate effect.

  
(Ravi Mathur)

Joint Secretary to the Government of India

Manager,  
Government of India Press,  
Gurgaon (Haryana).

Copy forwarded for information to: -

The Secretary, University Grants Commission, New Delhi.  
The Principal/Director, Punjab Engineering College, Chandigarh - 160009.

"The grant of Deemed to be University to Punjab Engineering College, Chandigarh is subject to the condition that it will adhere to the guidelines / instructions issued by UGC & AICTE from time to time as applicable to Deemed Universities."

The Home Secretary Cum Education Secretary, Education Department, Chandigarh administration, U.T. Sectt., Sector, 9, Chandigarh - 160009.

The Member Secretary, All India Council for Technical Education, I.G. Sports Complex, I. P. Estate, New Delhi - 110002.

All Ministries/Departments of the Government of India.

All State Governments and Union Territories.

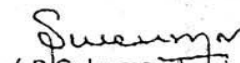
Registrars of all Universities & Deemed Universities.

Press Information Bureau, Shastri Bhawan, New Delhi.

The Secretary-General, Association of Indian Universities, AIU House, 16 Kotla Marg, New Delhi 110002.

3. All officers/sections in Department of Secondary & Higher Education.

1. Guard file/Coordination Assistant/Notification file/NIC/NIEPA.

  
(P. Sukumar)

Deputy Secretary to the Government of India

Notification deemed universities.doc

576/12002

15-12-2002

Annexure II

UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI-110 002.

No. F. 6-4/2001 (CPP-1)

November, 2003

NOTIFICATION 11 DEC 2003

Consequent upon the declaration of the following Colleges /Institutes as Deemed to be University by the Government of India, Ministry of Human Resource Development vide various notifications issued from time to time, the names of the following Colleges/Institutes which were affiliated to different universities in India prior to conferment of Deemed University are deleted from the list of Colleges maintained under Section 2 (f) of the UGC Act

|     | Names of RECs/Institutes prior to conferment of Deemed University Status which are now to be deleted | Name of the University under which the RECs/Colleges were affiliated | Name of the RECs/Institutes after conferment of Deemed University Status |
|-----|--|--|--|
| 1.  | Regional Engineering College, Warangal   | Kakatiya University  | National Institute of Technology, Warangal                               |
| 2.  | Sardar Vallabhbhai Regional Engineering College & Technology, Surat                                  | South Gujarat University   | Sardar Vallabhbhai National Institute of Technology, Surat               |
| 3.  | Regional Engineering College, Kurukshetra  | Kurukshetra University, Kurukshetra                                  | National Institute of Technology, Kurukshetra                            |
| 4.  | Regional Engineering College, Hamirpur   | H.P. University, Shimla  | National Institute of Technology, Hamirpur                               |
| 5.  | Regional Institute of Technology, Jamshedpur (Jharkhand).  | Ranchi University, Ranchi  | National Institute of Technology, Jamshedpur (Jharkhand).                |
| 6.  | Regional Engineering College, Srinagar (J & K)   | Kashmir University, Srinagar   | National Institute of Technology, Srinagar (J & K)                       |
| 7.  | Karnataka Regional Engineering College, Surathkal  | Mangalore University   | National Institute of Technology, Karnataka, Surathkal.                  |
| 8.  | Regional Engineering College, Calicut  | Calicut University   | National Institute of Technology, Calicut                                |
| 9.  | Maulana Azad College of Technology, Bhopal   | Barkatullah University, Bhopal                                       | Maulana Azad National Institute of Technology, Bhopal                    |
| 10. | Visvesvaraya Regional College of Engineering, Nagpur   | Nagpur University  | Visvesvaraya National Institute of Technology, Nagpur                    |

|    |  |                           |   |
|----|--|---------------------------|---|
| 11 | Regional Engineering College, Rourkela                     | Sanbalpur University      | National Institute of Technology, Rourkela                                    |
| 12 | Regional Engineering College, Jalandhar                    | Guru Nanak Dev University | Dr. B.R. Ambedkar National Institute of Technology, Jalandhar                 |
| 13 | Mulviya Regional Engineering College, Jaipur               | Rajasthan University      | Malviya National Institute of Technology, Jaipur                              |
| 14 | Regional Engineering College, Tiruchirappalli (T.N.)       | Bharathidasan University  | National Institute of Technology, Tiruchirappalli (T.N.)                      |
| 15 | Motilal Nehru Regional Engineering College, Allahabad      | Allahabad University      | Motilal Nehru Institute of Technology, Allahabad                              |
| 16 | Regional Engineering College, Durgapur                     | Burdwan University        | National Institute of Technology, Durgapur                                    |
| 17 | Yashwantrao Mohite College (Arts, Science & Commerce) Pune | University of Pune        | Included under the ambit of Bharati Vidyapeeth, Pune                          |
| 18 | Symbiosis Society Law College, Pune.                       | University of Pune        | Included under the ambit of Symbiosis International Educational Centre, Pune. |
| 19 | Narsee Monjee Institute of Management Studies, Mumbai.     | University of Mumbai      | Narsee Monjee Institute of Management Studies, Mumbai.                        |
| 20 | Punjab Engineering College, Chandigarh                     | Punjab University         | Punjab Engineering College, Chandigarh  |
| 21 | Allahabad Agricultural Institute, Allahabad.               | Allahabad University      | Allahabad Agricultural Institute, Allahabad.                                  |
| 22 | Bengal Engineering College, Howrah                         | Calcutta University       | Bengal Engineering College, Howrah  |

Yours faithfully,

59/

(Sharanjit Singh)  
Deputy Secretary

Copy to:

1. The Secretary, Government of India, Ministry of Human Resource Development, (Department of Secondary & Higher Education), Shastri Bhawan, New Delhi-110 001.
2. The Deputy Secretary, (NET) UGC, New Delhi.
3. Section Officer, (Meetings Cell), UGC, New Delhi.
4. The Joint Secretary (DU), UGC, New Delhi.
5. All Regional Offices of UGC.
6. Senior Statistical Officer, UGC, 35, Ferozshahi Road, New Delhi.
7. Section Officer (FD-III Section), UGC, New Delhi.

8. Section Officer (DU Section), UGC, New Delhi.
9. The Registrar, Kakatiya University, Warangal-506 009 (A.P).
10. The Registrar, South Gujarat University, Surat-395 007 (Gujarat)
11. The Registrar, Kurukshetra University, Kurukshetra (Haryana).
12. The Registrar, H.P. University, Shimla (H.P).
13. The Registrar, Ranchi University, Ranchi-834 008 (Jharkhand)
14. The Registrar, Kashmir University, Srinagar (J & K).
15. The Registrar, Mangalore University, Mangalore-574 199 (Karnataka).
16. The Registrar, Calicut University, Kozhikode, Calicut-673 635 (Kerala).
17. The Registrar, Barkatullah University, Bhopal-462 026 (M.P).
18. The Registrar, Nagpur University, Nagpur-440 001 (M.S).
19. The Registrar, Sambalpur University, Sambalpur-768 019 (Orissa)
20. The Registrar, Guru Nanak Dev University, Amritsar-143 005 (Punjab).
21. The Registrar, Rajasthan University, Jaipur-302 004 (Rajasthan).
22. The Registrar, Bharathidasan University, Tiruchirappalli-620 024 (T.N).
23. The Registrar, Allahabad University, Allahabad-211 002 (U.P).
24. The Registrar, Burdwan University, Burdwan-713 104 (W.B).
25. The Registrar, University of Pune, Ganeshtikhand, Pune- 411 009 (M.S).
26. The Registrar, University of Mumbai, M.G. Road, Fort, Mumbai-400 032 (M.S).
27. The Registrar, Punjab University, Chandigarh (Punjab)-160 014.
28. The Registrar, Calcutta University, 87/1, College Street, Kolkata-700 073 (W.B.).
29. The Director, National Institute of Technology, Warangal-506 004 (A.P).
30. The Director, Sardar Vallabhbhai National Institute of Technology, Surat-395 00 (Gujarat).
31. The Director, National Institute of Technology, Kurukshetra-136 119 (Haryana).
32. The Director, National Institute of Technology, Hamirpur-177 005 (H.P).
33. The Director, National Institute of Technology, Jamshedpur-831 014 (Jharkhand).
34. The Principal, National Institute of Technology, Srinagar (J & K).
35. The Director, National Institute of Technology, Karnataka, Surathkal, P.O. Srinivasnagar-575 025 (Karnataka).
36. The Director, National Institute of Technology, Calicut-673,601 (Kerala).
37. The Director, Maulana Azad National Institute of Technology, Bhopal-462 004 (M.P).
38. The Principal Visvesvaraya National Institute of Technology, Nagpur-440 011 (M.S).
39. The Director, National Institute of Technology, Rowkela-769 008 (Orissa).
40. The Director, Dr. B.R. Ambedkar National Institute, of Technology, Jalandhar (Punjab)-144 011.
41. The Director, Malviya National Institute of Technology, Jaipur (Rajasthan)-302 017.
42. The Director, National Institute of Technology, Tiruchirappalli-620 015 (T.N).
43. The Director, Motilal Nehru Institute of Technology, Allahabad-211 004 (U.P)
44. The Director, National Institute of Technology, Durgapur-713 209 (W.B).

(Sharanjit Singh)  
Deputy Secretary

CERTIFICATE OF REGISTRATION OF  
SOCIETIES

(ACT XXI OF 1860)

No. 3586 of 2003

I hereby certify that PUNJAB ENGINEERING COLLEGE, CHANDIGARH


has on this day been registered under the Societies Registration Act  
(Act XXI of 1860) and as amended by Punjab Amendment Act, 1957.

Given under my hand at Chandigarh this 29th

day of September Two thousand three

Fee Rs. 50



  
REGISTRAR OF FIRMS & SOCIETIES  
U.T., CHANDIGARH

Reg of FS - Govt. Press, U.T., Chd.



# NATIONAL BOARD OF ACCREDITATION

Place, East Tower, 4th Floor, Bhasham Pitamah Marg  
Giti Vihar, New Delhi-110 003  
+91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682



F. No. 31-16-2010-NBA

20-5-2014

To,

The Director  
PEC University of Technology  
Sector – 12, Chandigarh – 160 012

Subject: Accreditation status of programs offered PEC University of Technology, Chandigarh.

Sir,

This has reference to your application dated 18.07.2012 seeking accreditation of National Board of Accreditation to 4 UG engineering programs offered by your institution

2. Accreditation status of 3 UG engineering programs was conveyed to you vide letter dated 6<sup>th</sup> December, 2013.
3. Accreditation status of BE – Computer Science & Engineering program approved by the Executive Committee of National Board of Accreditation at its meeting held on 6<sup>th</sup> May, 2014 is indicated below:

| Sl. No. | Name of the Programme(s) (UG)        | Accreditation Status     | Period of validity w.e.f. 6-5-2014 | Remarks  |
|---------|--------------------------------------|--------------------------|------------------------------------|--|
| (1)     | (2)                                  | (3)                      | (4)                                | (5)  |
| 1       | B. E. Computer Science & Engineering | Provisionally Accredited | 2 years                            | Accreditation status granted is valid for the period indicated in Column No. 4 or till the programme(s) has the approval of the competent authority, whichever is earlier. |

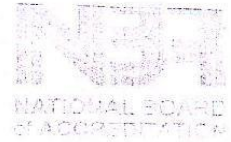
3. The accreditation status awarded to the program as indicated in the above table does not imply that the accreditation has been granted to PEC University of Technology, Chandigarh as a whole. As such the Institution should nowhere along with its name including on its letter head etc., write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name and level of the program accredited and the period of validity of accreditation, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

4. The accreditation status of the above program is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited program as indicated in the table in paragraph 3, appears on the website and information bulletin of your Institution.

Contd...

# NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4<sup>th</sup> Floor, Bhasham Pitamah Marg,  
Pragati Vihar, New Delhi-110 003  
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682



F.No. F. 31-16/2010/NBA

Dated: 03.04.2014

To,

The Director,  
PEC University of Technology,  
Sector - 12,  
Chandigarh - 160 012

DIR/DA

Subject : Accreditation status of programs applied by PEC University of Technology, Chandigarh.

Sir,

This has reference to your application dated 18.07.2012 in May 2011 format seeking accreditation of National Board of Accreditation to various UG Engineering programs offered by the University..

2. An Expert Committee conducted an on-site evaluation of the programs during 6<sup>th</sup> -8<sup>th</sup> Sep, 2013. The reports submitted by the Expert Committee were considered by the concerned Committees constituted for the purpose in NBA. The competent authority has approved the following accreditation status to the programs.:

| Sl. No. | Name of the Programme                      | Accreditation Status     | Period of validity w.e.f. 01.07.2014 |
|---------|--|--------------------------|--------------------------------------|
| (1)     | (2)  | (3)                      | (4)                                  |
| 1       | BE - Civil Engineering                     | Provisionally Accredited | 2 years                              |
| 2       | BE - Mechanical Engineering                | Provisionally Accredited | 2 years                              |
| 3       | BE - Materials & Metallurgical Engineering | Accredited               | 5 years                              |

NO. RECIP/DIR/ 305  
Dated 12/6/14

3. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to, PEC University of Technology, Chandigarh as a whole. As such the University should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the programs accredited, level of programs and the period of validity of accreditation, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

4. The accreditation status of the above programs is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programs as indicated in the table in paragraph 2, appears on the website and information bulletin of your College.

5. The accreditation status awarded to the programs as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any

# NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4<sup>th</sup> Floor, Bhashini Pitamah Marg,  
Pragati Vihar, New Delhi-110 003.  
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682



NATIONAL BOARD  
of ACCREDITATION

F. No. 31-16-2010-NBA

SO-ISO-H/SD/SA/SEP/SEC/SDA

Date: 22-09-2014

To,

Discy No. 12989

Dated: 9 OCT 2014

The Director  
PEC University of Technology  
Sector – 12, Chandigarh – 160 012

Record Section  
PEC University of Technology

**Subject:** Accreditation status of program offered PEC University of Technology, Chandigarh.

Sir,

This has reference to your application dated 18.07.2012 seeking accreditation of National Board of Accreditation to 4 UG engineering programs offered by your institution.

2. Accreditation status of 3 UG engineering programs was conveyed to you vide letter dated 3<sup>rd</sup> June 2014.
3. An Expert Team conducted an on-site evaluation of the programs during 06<sup>th</sup> to 08<sup>th</sup> September, 2013. Reports of the expert team were considered by the concerned Committees constituted for the purpose in NBA. The competent authority has approved the following accreditation status to the programs.

| Sl. No. | Name of the Programme(s)      | Basis of Evaluation | Accreditation Status     | Period of validity w.e.f. 1-7-2014 | Remarks  |
|---------|-------------------------------|---------------------|--------------------------|------------------------------------|--|
| (1)     | (2)                           | (3)                 | (4)                      | (5)                                | (6)  |
| 1       | U.G. Aeronautical Engineering | May 2011            | Provisionally Accredited | 2 years                            | Accreditation status granted is valid for the period indicated in Column No. 4 or till the programme(s) has the approval of the competent authority, whichever is earlier. |

4. The accreditation status awarded to the program as indicated in the above table does not imply that the accreditation has been granted to PEC University of Technology, Chandigarh as a whole. As such the Institution should nowhere along with its name including on its letter head etc., write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name and level of the program accredited and the period of validity of accreditation, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

5. The accreditation status of the above program is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited program as indicated in the table in paragraph 3, appear on the website and information bulletin of your Institution.

Contd...

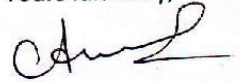
6. Weaknesses/ deficiencies in respect of the above programs as observed by the expert team during the course of evaluation are indicated in the Annexure to this letter.

7. The accreditation status awarded to the program as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. Copy of the Comprehensive Report submitted by the Chairman of the Expert Committee along with the detailed report submitted by the Expert Team which visited your Institution for the program evaluated are enclosed for reference and for taking necessary action to overcome the shortcomings, if any, pointed out by the Expert Team.

9. If the Institution is not satisfied with the decision of NBA, it may appeal within 30 days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,



(Dr. Anil Kumar Nassa)  
Member Secretary

**Encls.:** Copy of Comprehensive Report of Chairman and Expert Report of the Visiting Team.

**Copy to:**

1. The Member Secretary  
AICTE, Chanderlok Building,  
Janpath, New Delhi – 110 001
2. The Regional Officer  
All India Council for Technical Education,  
Plot No. 1310, Sector 42-B,  
Chandigarh – 160 036
3. The Director  
Technical Education  
Govt. of Punjab  
Chandigarh
4. The Director  
Technical Education  
Govt. of Punjab  
Chandigarh
5. Concerned File

Annexure V

No. 13/1760-117(3)-2004/ 159/114  
Chandigarh Administration  
Home Department

Chandigarh, dated the 27/8/2004

The Advisor (UG),  
All India Council for Technical Education,  
Indira Gandhi Sports Complex,  
IP Estate, New Delhi

Subject: Extension of AICTE approval to Punjab Engineering College  
Chandigarh for the year 2004-2005.

Sir,

I am directed to refer to your letter No. 765-60-202 (E)/ET/95 dated  
26.7.2004, on the subject noted above and to state that the Punjab Engineering  
College has since been upgraded to that of Deemed University and can legally  
take its own decisions regarding number of seats, etc. The seats at Punjab  
Engineering College would not be reduced. However to ensure high technical  
standards, the Administration is taking action to remove the deficiencies

Yours faithfully,

3  
2-8704  
Disperser  
Chandigarh Administration  
Essex House

Joint Secretary Technical Education,  
For Home Secretary,  
Chandigarh Administration.

CHANDIGARH ADMINISTRATION  
HOME DEPARTMENT

No. 13/1760-117(3)-2004/ 159/114

Dt

copy is forwarded to the Director (ad-interim),  
Engineering College, Chandigarh for information and necessary

Superintendent Home I,  
for Home Secretary,  
Chandigarh Administration.

Annexure VI

Dir

Diary No. 181  
13/5/08

CHANDIGARH ADMINISTRATION  
TECHNICAL EDUCATION DEPARTMENT  
Notification


No.11/23/152-IH(10)-2008/ 9690

Dated: Chandigarh, 9/5/2008

The Administrator, Union Territory of Chandigarh is pleased to reconstitute the Board of Governors of the Punjab Engineering College (Deemed University), Chandigarh as per clause 5(A) of the byelaws of the Punjab Engineering College Society as under: -

- |     |   |                                   |
|-----|---|-----------------------------------|
| 1.  | Shri Chandra Mohan,   | Chairperson                       |
| 2.  | Secretary, Technical Education,<br>Chandigarh Administration      | Vice Chairperson<br>(ex-officio)  |
| 3.  | Finance Secretary,<br>Chandigarh Administration                   | ex-officio                        |
| 4.  | Vice Chancellor, Panjab University                                | ex-officio                        |
| 5.  | Joint Secretary, Technical Education<br>Chandigarh Administration | ex-officio                        |
| 6.  | Nominee<br>Ministry of Human Resource Development,<br>New Delhi   |                                   |
| 7.  | Nominee<br>Ministry of Home Affairs, New Delhi                    |                                   |
| 8.  | Nominee<br>University Grants Commission,<br>New Delhi             |                                   |
| 9.  | Director IIT, Delhi or his nominee                                | ex-officio                        |
| 10. | Chairman, CII, Northern Region                                    | ex-officio                        |
| 11. | Director, CSIO, Chandigarh  |                                   |
| 12. | Dr. B. N. Goswamy, Professor, Emeritus,<br>Panjab University.     | } Technologists/<br>Educationists |
| 13. | Dr. D.V. Rai Prof. Deptt. of Biophysics,<br>Panjab University.    |                                   |
| 14. | Shri Satneer Goyal, Head Infosys, Chandigarh                      | } Industrialists                  |
| 15. | Shri B. Mishra, M.D. PTL, Mohali                                  |                                   |
| 16. | Shri Vikram Hans  | Alumnus<br>ex-officio             |
| 17. | Director, Punjab Engineering College                              |                                   |
| 18. | Registrar, Punjab Engineering College                             | Member Secretary<br>(ex-officio)  |

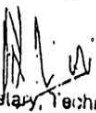
A copy is forwarded to the Controller, Printing & Stationery, Union Territory Chandigarh with the request to publish this Notification in the Chandigarh Administration Gazette and send 20 copies thereof to the Administration for record.

  
Joint Secretary, Technical Education,  
Chandigarh Administration

✓ Endst. No. 11/23/152-IH(10)-2008/ 9692

Dated: Chandigarh, the 9/5/2008


A copy is forwarded to the Director, Punjab Engineering College (Deemed University) Chandigarh for information and necessary action.

  
Joint Secretary, Technical Education,  
Chandigarh Administration

Endst. No. 11/23/152-IH(10)-2008/ 9693

Dated: Chandigarh, the 9/5/2008

A copy is forwarded to all concerned.

  
Joint Secretary, Technical Education,  
Chandigarh Administration

## Ph.D. Thesis (2010)

| S. No. | Name of Candidate    | Guide            | Title  |
|--------|----------------------|------------------|--|
| 1.     | R M Belokar          | Dr R N Nauhria   | Design and Development of a Competitive Production System for Indian Industry  |
| 2.     | Gurjit Kaur          | Dr Neena Gupta   | Performance Evaluation and Comparative Analysis of Improved Prime Sequence Codes and Superimposed Optical Orthogonal Codes in OCDMA System |
| 3.     | H.S. Bains           | Dr.Alakesh Manna | Production, Processing and Fabrication of Aluminium base Metal Matrix Composites   |
| 4.     | S. M. Salodkar       | Dr.Alakesh Manna | Multi search on machinability during turning for optimization of cutting conditions using design of experiments                            |
| 5.     | Harlal Singh<br>Mali | Dr.Alakesh Manna | Experimental investigation on Abrasive Flow Finishing of Composite Materials   |



## Ph.D. Thesis (2011)

| S. No. | Name of Candidate  | Guide                | Title  |
|--------|--------------------|----------------------|--|
| 1.     | Vandana Kansal     | Dr T K Jindal        | Design optimization of an energy efficient wind turbine for high altitude areas and formulizing the guidelines for commercialization of technology |
| 2.     | Radhey Sham        | Dr T K Jindal        | Analysis of miniature cryocooler with real thermodynamic processes   |
| 3.     | Gulshan Kumar      | Dr Vasundhara Singh  | New synthetic approaches towards sphingolipids and related compounds   |
| 4.     | Rajni Ratti        | Dr Vasundhara Singh  | Synthesis of ionic liquid and clay based recyclable and recoverable catalytic system   |
| 5.     | Neela R            | Dr. Neelam R Prakash | Cosine modulated filter bank for high speed copper wire communication  |
| 6.     | Amita Soni         | Dr. Neena Gupta      | Interference rejection of digital signaling over Rayleigh Fading Channels  |
| 7.     | Naveen Aggarwal    | Dr. Sanjeev Sofat    | Multimedia Mining and Representation of Content Management System for Integrated Warehouse   |
| 8.     | Haralal Singh Mali | Dr. Alakesh Manna    | “Experimental investigation on Abrasive Flow Finishing of Composite Materials”   |
| 9.     | S. M. Salodkar     | Dr. Alakesh Manna    | “Multi search on machinability during turning for optimization of cutting conditions using design of experiments”                                  |
| 10.    | H.S. Bains         | Dr. Alakesh Manna    | “Production, and Fabrication of Aluminium base Metal Matrix Composites”  |

### Ph.D. Thesis (2012)

| S. No. | Name of Candidate | Guide              | Title  |
|--------|-------------------|--------------------|--|
| 1.     | Anita Singla      | Dr Harminder Kaur  | POTENTIOMETRIC STUDIES ON THE COMPLEXES OF $\text{Co}^{2+}$ , $\text{Ni}^{2+}$ , $\text{Cu}^{2+}$ , $\text{Zn}^{2+}$ , $\text{Cd}^{2+}$ , $\text{Sn}^{2+}$ , $\text{Hg}^{2+}$ , and $\text{Pb}^{2+}$ , WITH SOME NOVEL DRUGS AND FATTY ACIDS |
| 2.     | Gulshan Kumar     | Dr. Vasundra Singh | New Synthetic Approaches towards sphingolipids an related compounds.   |
| 3.     | Rajni Ratti.      | Dr Vasundra Singh  | Synthesis of ionic liquid clay based recyclable and recoverable systems.   |

### Ph.D. Thesis (2013)

| S. No. | Name of Candidate | Guide   | Title  |
|--------|-------------------|---|--|
| 1.     | Sushil kumar      | Dr. D. R. Prajapati                             | “Application of six sigma methodology for improved performance in manufacturing industries- a case study”      |
| 2.     | Sukhraj Singh     | Dr. D R. Prajapati                              | “Design of quality control charts for autocorrelated data”   |
| 3.     | Ajay Mittal       | Dr. Sanjeev Sofat                               | A stereo vision based obstacle detection technique for navigation  |
| 4.     | Jujhar Singh      | Dr Satsangi<br>Dr V P Singh<br>Dr D R Prajapati | Investigation of Ultrasonic Assisted Electric Discharge Machining Performance                                  |
| 5.     | Radhe Shyam       | Dr Harminder Kaur                               | “Adsoptive Removal of Toxic Metals and Organics By Flyash and Other Low Cost Adsorbents From Aqueous Solution” |
| 6.     | Jatinder Kaur     | Dr Prem Lata                                    | “Development of Thermally Stable Insensitive High Explosive Compositions for Futuristic Armament Systems”      |

## Ph.D. Thesis (2014)

| S. No. | Name of Candidate  | Guide                     | Title  |
|--------|--------------------|---------------------------|--|
| 1.     | Rajesh S           | M L Gupta,<br>Anju Singla | Impact of Leadership Behaviour & Organizational Climate on Employee Commitment: A Study of Small Scale Enterprises in Delhi                      |
| 2.     | Renu Lamba         | M L Gupta                 | Financial Inclusion through Microfinance: A Case Study of MFIs and RRBs in the States of Punjab, Haryana and Himachal Pradesh                    |
| 3.     | Balraj Singh Brar  | V P Singh                 | Development and Investigation in Electro-Chemical Aided Abrasive flow machining (ECA <sup>2</sup> FM) Process.                                   |
| 4.     | Ms Inderpreet Kaur | Neena Gupta               | Performance Modeling of Hybrid Amplifiers for DWDM Systems   |
| 5.     | Ms Shilpa Jindal   | Neena Gupta               | Performance Evaluation of a Novel 3D Coding Technique for OCDMA Systems  |
| 6.     | Sukhwinder Singh   | Neelam Rup<br>Prakash     | A Novel Approach to Extract and Enhance the Edges of Noisy Grey Scale Images   |
| 7.     | Ashwani Kumar      | S.K.Singla                | Performance Analysis of Magnetorheological Damper  |
| 8.     | Arindam Ghosal     | A.Manna,<br>Arun K.Lall   | Ytterbium Fiber Laser Machining of Al/Al <sub>2</sub> O <sub>3</sub> Metal Matrix Composite  |
| 9.     | J D Sharma         | Uma Batra                 | Optimization of composition and heat treatment parameter and structure property correlation of Austempered Ductile Iron (from Panjab University) |

## M.E. THESIS (2010)

| S. No.                   | Name of Candidate     | Guide                   | Title of Thesis   |
|--------------------------|-----------------------|-------------------------|---|
| <b>Civil Engineering</b> |                       |                         |   |
| 1.                       | Kulwant Singh         | Umesh Sharma            | Comparative Study of Conventional Bituminous Concrete Mix and Plastic Modified Bituminous Concrete Mix.     |
| 2.                       | Puneet Maria          | Umesh Sharma            | Comparative study of Overlay design by CBR and Benkleman Beam Method  |
| 3.                       | Mahesh Singh Rathor   | N.P.Devgan              | Seismic Response of Multistoried Reinforced Concrete Framed Building with Floor Diaphragm                   |
| 4.                       | Sat Pal Singh Rawat   | N.P.Devgan              | Behavioral Study of RC Framed Building with core wall   |
| 5.                       | Jaspreet Singh        | Sarita Singla           | Behaviour of Concrete using Ground Granulated Blast Furnace Slag as an Admixture                            |
| 6.                       | Adrash Kumar          | Roshan Lal              | An Analytical Investigation on Reinforced Concrete opening corner joints                                    |
| 7.                       | Gursagar Singh Chahal | Roshan Lal<br>S.K.Verma | Study on Strength and Durability characteristics of Geopolymer Concrete                                     |
| 8.                       | Manpreet Kaur         | Roshan Lal              | Study on Reinforced Concrete Corners Subjected to Opening Bending Moment                                    |
| 9.                       | Raman Kumar           | Roshan Lal<br>S.K.Verma | Seismic Behaviour of Shear Wall Framed Buildings  |
| 10.                      | Gurwinder S Dhindsa   | Roshan Lal              | Behaviour of Reinforced Fibrous Concrete Corner Joints  |
| 11.                      | Jaivir Singh          | Roshan Lal              | Strength and Durability Properties of Self Compacting Concrete containing Flyash and Lime Stone Quarry Fine |
| 12.                      | Shailza Singh         | Roshan Lal              | An Investigation on Effects of Flyash on Strength and Flowability of SCC                                    |

## Computer Engineering

|     |                        |                     |   |
|-----|------------------------|---------------------|---|
| 1.  | Shivjeet Singh         | Sanjeev Sofat       | Mobility using key management in Wireless Mesh Network  |
| 2.  | Gurdit Singh           | Sanjeev Sofat       | A Secure routing protocol for highbred Wireless Mesh Network  |
| 3.  | Sahit Seth             | Sanjeev Sofat       | Designing and implementing intrusion detection system to detect denial of service attacks in Wireless Mesh Network using cross layer approach |
| 4.  | Shikha Goyal           | Sanjeev Sofat       | Method of BEACON frame spoof detection in IEEE 802.11 Wireless LAN  |
| 5.  | Arun Kumar             | Divya               | A Preauthentication based Vertical handover between WiMAX and WMN   |
| 6.  | Sunil Kumar            | Divya               | A Robust Key Management Scheme for Wireless Mesh Networks   |
| 7.  | Anit Kumar Gankotiya   | Divya               | An Integrated Approach for Handling Selfish MAC Misbehaviour in IEEE-Based 802.11 Mesh Network  |
| 8.  | Chirag Kumar Kanjibhai | Rupani Trilok Chand | Efficient Transport Layer Protocol for Wireless Sensor Networks   |
| 9.  | Isha Batra             | Trilok Chand        | Efficient MAC Protocol for Wireless Sensor Networks   |
| 10. | Ravika Goel            | Trilok Chand        | Efficient Routing Protocol for Mobile Wireless Sensor Networks  |
| 11. | Kuldeep Kaur           | Trilok Chand        | Enhanced Adhoc on demand Distance Vector (E-AODV) Routing Protocol in Wireless Mesh Networks  |
| 12. | Vikas Tomer            | Ajay Mittal         | A framework for Obstacle representation and Detection   |
| 13. | Akhileshwar            | Ajay Mittal         | Vision Based framework for visually impaired navigation   |
| 14. | Shekhar Karanwal       | Manvjeet Kaur       | A Secure Multimodal Biometric System using Fingerprints, Palmprints and Faces   |
| 15. | Purnima                | Manvjeet Kaur       | Speech Processing and Indentification Labview   |
| 16. | Deepak Saraswat        | Manvjeet Kaur       | Template Security in Biometric Systems  |

|     |                        |                              |  |
|-----|------------------------|------------------------------|--|
| 17. | Prince                 | Ajay Mittal<br>Manvjeet Kaur | Online Voting System using Fingerprint Authentication                    |
| 18. | Asit Kumar<br>Gahalaut | Padmavati                    | An Insight on Reverse Engineering for JAVA code through program analysis |
| 19. | Meenakshi Mittal       | Shailendra Singh             | Prediction of Protein structure using neural network                     |

### **Electronics & Electrical Communication Engineering**

|     |                    |                                  |  |
|-----|--------------------|----------------------------------|--|
| 1.  | Mohandeep<br>Singh | Ajay Mudgil<br>Amita Soni        | Design & Development of Microcontroller based irrigation scheduling                |
| 2.  | Chandan            | Dilip Kumar<br>Deepak Bagai      | Design and Development of DTMF Based Robotic Surveillance cum Rescue System        |
| 3.  | Gagandeep          | Dilip Kumar<br>Neena Gupta       | Microcontroller based numeric control for pipe bending machine                     |
| 4.  | Hardeep Singh      | J S Bhatia<br>Jasbir Kaur        | Eye tracking driver fatigue monitoring and warning system                          |
| 5.  | Hitesh Pahuja      | Mandeep Singh<br>Nagendra Sah    | Design and Development of Microcontroller based shooting dimension feedback system |
| 6.  | Abhay Kumar        | S P Sood<br>Rita Mahajan         | Voice operated power wheel chair using micro controller                            |
| 7.  | Naveen Kansal      | J S Bhatia<br>Nagendra Sah       | Coma patient monitoring System   |
| 8.  | Neelam Sheoran     | Jaspal Singh<br>Sukhwinder Singh | Intelligent dual axis solar tracking system  |
| 9.  | Neha Jain          | Dalip Kumar<br>Neelu Jain        | Design and Development of coin mechanism for vending machine                       |
| 10. | Priyanshu Tanck    | Mandeep Singh<br>Jyoti Kedia     | Design and development of Wireless Pedometer                                       |
| 11. | Sandeep Bhatia     | Ajay Mudgil<br>Amita Soni        | Alive human body detection system using an autonomous mobile rescue robot          |
| 12. | Shalini Sharma     | Jaspal Singh<br>Jasbir Kaur      | Remote controlled robotic lawn mower   |
| 13. | Swati Sharma       | Jaspal Singh<br>Divya            | Home appliance control for disable people based on head tracking and voice control |

|     |                        |                                      |   |
|-----|------------------------|--------------------------------------|---|
| 14. | Tanushree Aggrawal     | Dalip Kumar<br>Neelam R Parkash      | Hardware implementation of Ant Colony Optimization approach for wireless Communication                        |
| 15. | Deepika Sharma         | Jaspal Singh<br>Arun Kumar Singh     | Motion Enable virtual 3-D display with RC connectivity  |
| 16. | Gyanendra N. Tripathi  | S P Sood<br>V Rihani                 | Motion planning of a mobile Robot using artificial neural network   |
| 17. | Ajit Partap Singh Negi | Deepak Bagai<br>Rita Mahajan         | An Improved Model of a Solar Powered Standalone Lighting System for Remote Areas                              |
| 18. | Shilpi Kumari          | Deepak Bagai<br>Rita Mahajan         | Implementation of Improved Battery Charger for Stand –Alone Photovoltaic System                               |
| 19. | Nitin Kumar            | V Rihani                             | Study of Design of Microstrip Reflectarray Antenna for Direct to Home Application                             |
| 20. | Zila Singh             | V Rihani                             | Study & Design of Aperture Coupled, photovoltaic Integrated Microstrip Patch Antenna for WLAN Applications    |
| 21. | Dilip Kumar Dubey      | Neelu Jain<br>Jyoti Kedia            | Design & Development of Electronic Voting Machine using finger print identification of Verification           |
| 22. | Rohit Maurya           | Neelu Jain<br>Jyoti Kedia            | Design and Analysis of high performance CMOS Operational Amplifiers   |
| 23. | Anshu Vishnoi          | Neelam R Parkash<br>Sukhwinder Singh | 1 Period -3 Based Gene Prediction using Digital Fillers   |
| 24. | Swati Sharma           | Neelam R Parkash<br>Sukhwinder Singh | Edge detection based on Mathematical morphology   |
| 25. | Abhishek Singhal       | Neelam R Parkash                     | Dimensional Analysis Segmentation of Touching Rice Grains   |
| 26. | Deepak Kumar           | Nagendra Sah<br>Bipan Kaushal        | Implication of propagation Modeling using cell breathing concept on coverage and capacity prediction in WCDMB |
| 27. | Davendra Kumar         | Nagendra Sah                         | Optimization of path loss of wireless Indoor propagation models using CSP Algorithms                          |
| 28. | Abhishek Kumar Katiyar | Neena Gupta<br>Divya                 | Realization of DWDM system and all optical logic gates using cross grain Modulation                           |
| 29. | Ankush Aggarwal        | Neena Gupta<br>Divya                 | Performance Analysis of a cross phase Modulated Optical Communication system using a novel.                   |

### **Information Technology**

1. Amit Kumar                      Rupali Syal                      Performance Analysis of Aggregation Techniques for VoIP in Wireless Mesh Networks
2. Ritu Malik                        Rupali Syal                      Performance Analysis of IP Security VPN for Real Time Traffic
3. Surabhi Mahajan                Alka Jindal                      NPRE: An Improved Method in Security of VANETS

### **Mechanical Engineering**

1. Rajinder Kumar                D.R. Prajapati                “Implementation of Taguchi Methodology in Automotive Process Industries”, August, 2010, MED, PEC University of Technology, Chandigarh.
2. Manjinder Bajwa                D.R. Prajapati                “Application of SPC Techniques in Process Industries”, August, 2010, MED, PEC University of Technology, Chandigarh.
3. Amoljit Gill                      Sanjeev Kumar                “Effect of Deep Cryogenic Treatment on the Performance of EDM Tool Electrodes”, MED, PEC, Chandigarh August 2010,
4. Bidyut Kumar Panda            Sanjeev Kumar                “Design and Implementation of Software’s for Defect Investigation in an Air Force Unit, MED, PEC July, 2010.
5. Vishal Sharma                    S.K. Mangal                    “Performance analysis of the working clearance of a Magneto Rheological Disc Brake”.
6. Gaurav Rana                      S.K. Mangal                    “Performance analysis of the Magneto Rheological Drum Brake”
7. Vivek Narang                      Alakesh Manna                “An experimental investigation during micro machining of e-glass fibre-epoxy composite on electro chemical discharge machining”
8. Sunil Sharma                      Alakesh Manna                “An experimental investigation on EAFF of Al/Al<sub>2</sub>O<sub>3</sub>-MMC cylindrical internal surfaces

### **Industrial Materials & Metallurgy**

1. Ramesh Kumar                    P Thareja                      Development of Rotor Blades For Shot Blasting Machine,



## Production Engineering

- |    |                     |               |   |
|----|---------------------|---------------|---|
| 1. | Pardeep Sharma      | Parveen Kalra | Modeling & Simulation of Mitsubishi RV-M1 Robot   |
| 2. | Harish Kr. Banga    | Parveen Kalra | Optimum Path for Sealant Application on an Automobile Roof  |
| 3. | Jaswinder Singh     | Parveen Kalra | Bio -Mechanical Discomfort Analysis of Maruti 800 Vehicle Driver                                    |
| 4. | Vikas Agnihotri     | M M Goud      | Design of an Adaptive Control for A Turning Process   |
| 5. | Krishna Kant Dhakar | R M Belokar   | Just in Time in Supply Chain  |
| 6. | Angrej Singh        | R S Walia     | A Feasibility Study of Waste to Energy Solid Waste Technologies in Treating Municipal in Chandigarh |

## M.E. THESIS (2011)

| S. No.                   | Name of Candidate | Guide                                  | Title of Thesis   |
|--------------------------|-------------------|--|---|
| <b>Civil Engineering</b> |                   |  |   |
| 1.                       | Deepak Arora      | Dr N P devgan                          | Determination of Moment Co-efficient of flat slabs under different edge conditions  |
| 2.                       | Neetu Jakhar      | Dr Siby John                           | Modeling and Mapping of Gangotri Glacier in the perspective of Climate Change   |
| 3.                       | Pratibha Sauparna | Dr Siby John                           | A comparative study of various methodologies for Avalanche Hazard Mapping for a part of Manali- Leh Axis  |
| 4.                       | Gaurav Kathpal    | Prof S K Sharma<br>Dr Vasundhara Singh | Evaluation of water quality of river Ghaggar and its impact on groundwater. A Case Study  |
| 5.                       | Naveen Atwal      | Prof S K Sharma                        | Studies on pollution of textile industry and low cost absorbent treatment of its effluent   |
| 6.                       | Varsha Manhas     | Prof S K Sharma                        | Studies on Suitability of Dispersion Model Application for Predication of Air Pollutant concentration in ambient air in the vicinity of Cement Industry. A Case study |
| 7.                       | Naveen Rana       | Prof S K Sharma                        | Recommendations and implementation of ISO 14000 in an Agro Based Industry: A Case study   |
| 8.                       | Akanksha          | Prof S K Sharma                        | Environmental Study of a Thermal Plant- A case study  |
| 9.                       | Shubra            | Prof S K Sharma                        | To Assess suitability of ground water for domestic and Agricultural purposes in the Vicinity of village pond. A Case Study  |
| 10.                      | Karandeep Singh   | Dr Tripta Goyal                        | Traffic Strategies for selected Routes of Chandigarh City using Global positioning system   |
| 11.                      | Maninder Viridi   | Dr Tripta Goyal                        | Traffic Analysis of the major intersections for Panchkula City  |
| 12.                      | Sandeep Singh     | Dr. Umesh Sharma                       | Smart Parking Management in Chandigarh  |
| 13.                      | Rishi Rana        | Dr Shakti Kumar                        | A comparative studies of leachate characteristics of Landfills  |
| 14.                      | Sukhmani Kaur     | Dr Shakti Kumar<br>Dr Vasundhara Singh | Water Quality studies of a Modern Industrial Town   |

|     |                    |                    |   |
|-----|--------------------|--------------------|---|
| 15. | Monika Dhakla      | Dr S K Verma       | Study of behavior of compacting concrete  |
| 16. | Abhay              | Dr S K Verma       | Seismic behavior of framed buildings with infill walls                                  |
| 17. | Mohit Sachdeva     | Dr S K Verma       | Application of base isolation as a performance based earthquake resistant design method |
| 18. | Paramvir Singh     | Dr S K Verma       | Study on properties of concrete incorporation used foundry sand                         |
| 19. | Atul Garg          | Dr S K Verma       | Structural behavior of fibrous concrete using polypropylene fibers.                     |
| 20. | Parveen            | Dr S K Verma       | Investigation on behavior of crumb modified concrete                                    |
| 21. | Madhur Gupta       | Prof Sarita Singla | Strength and durability of high volume fly ash concrete containing polypropylene fibers |
| 22. | Bhupinder Singh    | Prof Sarita Singla | Experimental study on the effect of GGBFS on durability characteristics of concrete     |
| 23. | Deepankar Kumar    | Prof Sarita Singla | Behavior of fly ash bricks  |
| 24. | Sachin Arora       | Prof Sarita Singla | Behavior of bunker under blast loading and NIG III level forces                         |
| 25. | Himanshu           | Prof Sarita Singla | Optimization of design parameters for manufacturing Fly ash Sand Lime bricks            |
| 26. | Gurchetan Singh    | Prof Roshan Lal    | Behavior of tall chimney's subjected to wind loading                                    |
| 27. | Sumeet Sharma      | Prof Roshan Lal    | An experimental investigation on structural behavior of beam column joints              |
| 28. | Pritam Singh Rawat | Prof Roshan Lal    | Study on Structural behaviour of Fibre reinforced concrete opening corner joints        |
| 29. | Parth Pandit       | Prof Roshan Lal    | Study on reinforced concrete corner joints  |
| 30. | Varun Singla       | Prof Roshan Lal    | An investigation on structural behavior of SFRC Beams                                   |

### **Computer Engineering**

|    |                      |                   |  |
|----|----------------------|-------------------|--|
| 1. | Kunwar Pal           | Dr. Sanjeev Sofat | Analysis of Secure OLSR routing protocol for MANETs                    |
| 2. | Kush Kumar Jaiswal   | Dr. Sanjeev Sofat | Secure and efficient hybrid wireless mesh routing protocol for 802.11s |
| 3. | Piyush Pathak        | Prof. Divya       | Detecting Attacks at Multiple layers in IEEE 802.11 mesh network       |
| 4. | Rupinder Kaur Cheema | Dr. Sanjeev Sofat | Implementation and detection of DOS Attacks in wireless mesh network   |

|     |                     |   |  |
|-----|---------------------|---|--|
| 5.  | Sanchita Bhoot      | Prof. Divya                               | Detecting Attack at a Single layer in IEEE 802.11 mesh network                           |
| 6.  | Tulsi Kr. Agarwal   | Prof. Divya                               | An implementation of routing layer attacks in 802.11 based mesh network                  |
| 7.  | Karanveer Singh     | Dr. Sanjeev Sofat<br>Prof. Manavjeet      | Multi biometric template security  |
| 8.  | Deepak Pal          | Prof. Shailendra Singh                    | DNA-Cryptography based approach of safe and secure transmission of messages              |
| 9.  | Ruchi Mann          | Prof. Shailendra Singh                    | RNA Secondary Structure Classification Using Modified BPN                                |
| 10. | Vishal              | Prof. Shailendra Singh                    | Identification of common motif of RNA sequences using genetic algorithms                 |
| 11. | Nivit Gill          | Prof. Shailendra Singh                    | Biological sequence matching using Boolean algebra & fuzzy logic: A comparative analysis |
| 12. | Abhishek Gupta      | Prof. Ajay Mittal                         | Obstacle detection in textural path for autonomous                                       |
| 13. | Manish Garg         | Prof. Ajay Mittal                         | A color and texture based obstacle detection for recognizing safe traversable path       |
| 14. | Hargovind Sharma    | Prof. Ajay Mittal<br>Prof. Arvind         | Fiscal Movement Detection  |
| 15. | Shivali Saxena      | Prof. Ajay Mittal<br>Prof. Arvind         | A homography based technique for group plane estimation                                  |
| 16. | Khwairakpam Amitabh | Prof. Padmavati                           | An hexadecimal conversion technique to detect SQL injection attack using chi-square test |
| 17. | Gyan Prakash Sagar  | Prof. Padmavati<br>Prof. Shailendra Singh | Analysis of computational models for biological sequencing and structure similarity      |
| 18. | Jeet Ghosh          | Prof. Padmavati<br>Prof. Manavjeet        | A robust steganography method for secure biometric data                                  |

### **Electrical Engineering**

|    |                  |  |   |
|----|------------------|--|---|
| 1. | Alok Sharma      | Prof. K.K.Garg<br>Prof. Rashmi Vikal   | Design of multivariable output feedback and PID Controller for power and voltage regulation for SMIB system |
| 2. | Rayes Ahmad Lone | Prof. S.K.Suman                        | Modeling and Analysis of Canal Drop Hydro Power Plant and Performance Enhancement using PID Controller      |
| 3. | Yogender Chauhan | Dr. Shiv Narayan<br>Prof. Rashmi Vikal | Design of fixed structure robust controller for DC motor using evolutionary algorithm                       |

|     |                       |  |   |
|-----|-----------------------|--|---|
| 4.  | Pawan Kumar           | Dr. Shiv Narayan<br>Prof. Rashmi Vikal     | Model order reduction using evolutionary algorithms and design of controllers   |
| 5.  | Bhaskar Chetry        | Dr. Shiv Narayan                           | Speed Control of DC Motor Using PI, PID, SMC and PISMC Controllers  |
| 6.  | Jiwanjot Singh        | Dr. Jagdish Kumar                          | Voltage control in power system using PI robust controlled CMLI based STATCOM   |
| 7.  | Vinod Kumar           | Prof. Jagdish Kumar<br>Prof. Loveleen Kaur | Reactive power control in two bus distribution system using FLC based CMLI STATCOM  |
| 8.  | Abhinay Singh Chauhan | Prof. Raminder Kaur                        | Restructuring of Transmission System for Power Congestion Management  |
| 9.  | Balvender Singh       | Prof. Jaimala Gambhir                      | Improved and Effective Control of Doubly Fed Induction Generator for Wind Energy Conversion System  |
| 10. | Dixit Gupta           | Prof. Jaimala Gambhir                      | Participation of Doubly Fed Induction Generator in Primary Frequency Regulation of Grid – A Case Study  |
| 11. | Manvendra Singh       | Dr. Balwinder Singh & Dr. Rintu Khanna     | Short-term power system load forecasting using Artificial Neural Network  |
| 12. | Kavita Sharma         | Dr. Tarlochan Kaur                         | Determination of earth resistance of buried earth electrode and study its effect on the earthing system design                                    |
| 13. | Pradeep Kumar         | Dr. Tarlochan Kaur<br>Dr. Jagdish Kumar    | Optimal location of SVC and STATCOM in long transmission line using particle swarm optimization technique   |
| 14. | Kamaldeep             | Dr. Tarlochan Kaur                         | Simulation of Static Var Compensator and Voltage Control of Power Transmission System Using SVC   |
| 15. | Yogesh Roshan Kainse  | Prof. Puneet Arora                         | Reactive Power output optimization in wind farm for improving the performance of distributed system   |
| 16. | Ashish Dutta          | Dr. Balwinder Singh<br>Prof. Rashmi Vikal  | Design of Optimal variable structure controller and LQR controller for the investigation of small signal stability of SMIB power system using PSO |
| 17. | Navdeep Singh         | Dr. Rintu Khanna                           | Power System Stability Improvement through Energy Storage Type Statcom  |
| 18. | Gurtej Singh          | Dr. Tilak Thakur                           | Improvement in Power Quality Using Hysteresis Controlled DVR  |

|     |                                      |   |  |
|-----|--------------------------------------|---|--|
| 19. | Vivek Goyal                          | Prof. Sandeep Kaur                      | Technical Benefits of Optimal Placement of Distributed Generation in Distribution System       |
| 20. | Kuldeep S.Bedi                       | Dr. Tilak Thakur                        | Active & reactive power control of grid connected photovoltaic system using PWM                |
| 21. | Gagandeep Singh                      | Dr. Tilak Thakur                        | Study of DSTATCOM using ultra capacitor  |
| 22. | Jagpreet Singh                       | Prof. Sulata Bhandari                   | Modeling and simulation of multilevel inverter topologies for comparative performance analysis |
| 23. | Rohit Kumar                          | Prof. Sulata Bhandari                   | Design and performance analysis of fuzzy logic based PSS controller applied to SMIB system     |
| 24. | Anshu Sharma                         | Dr. Shiv Narayan<br>Dr. Balwinder Singh | Design of optimal controllers using swarm intelligence technique                               |
| 25. | Suksham Goyal<br>Dr. Balwinder Singh | Dr. Shiv Narayan                        | Design of fuzzy logic controller for speed control of DC motor                                 |
| 26. | Abhishek Aggarwal                    | Prof. Sandeep Kaur                      | Placement strategy for switches in power system with distributed generation                    |

#### **Electronics & Electrical Communication Engineering (Electronics & EPDT)**

|    |                        |                                  |  |
|----|------------------------|----------------------------------|--|
| 1. | Jatin Garg             | Dr Neelu Jain                    | Face Recognition Using Eigenfaces Approach.  |
| 2. | Jai Parkash            | Dr Neelu Jain<br>Sh. Ajay Mudgil | Auto matic Gate Control System for Railway road Crossing   |
| 3. | Isha Dhawan            | Dr. Neelu Jain                   | Integration Of Text Dependent Speaker & Speech Ricognition System.   |
| 4. | Komal Babbar           | Prof Amita Soni                  | Performance Analysis Of Multiuser Detection Techniques For Ds-Cdma Signals   |
| 5. | Aparna Singh           | Prof Jyoti Kedia                 | Design & Analysis Of High Speed Cmos Optical Receiver.   |
| 6. | Sachin Kumar           | Prof Bipin Kaushal               | Analysis Of Mobile Wimax Handover In Homogenous Wireless Network.  |
| 7. | Amrita Kaur            | Prof V Rihani                    | Development Of Artificial Neural Network For Predicting The Response Of Chronic Myeloid Leukemia To Imatinib Mesylate. |
| 8. | Ashwani Kumar<br>Grain | Prof V Rihani                    | Grading Of Astrocytoma Tumor In Mr. Brain Image Using Artificial Neural Network.                                       |

|     |                       |                                      |  |
|-----|-----------------------|--------------------------------------|--|
| 9.  | Narendra Pal Singh    | Prof V Rihani                        | Mathematical Model Of Eye To Detect Glaucoma With The Help of Artificial Neural Network.                       |
| 10. | Amit Tripathi         | Prof V Rihnai                        | Implementation Of Parallel, Serial And Mixed Pid Controller Based On Fpga And Their Comparison.                |
| 11. | Sushreesila Panigrahy | Dr N R Parkash                       | Low Power Arithmetic Logic Unit Design Using Cmos Gdi Logic  |
| 12. | Shrivishal Tripathi   | Dr N R Parkash                       | Spectrum Utilization By Cognitive Radio Using Locally Optimal Detection Techniques.                            |
| 13. | Naveen Kumar          | Prof Jasbir Kaur                     | A Novel Routing Protocol For Energy Optiomization Of Wsns  |
| 13. | Ashish Sharma         | Prof Jasbir Kaur                     | Comparative Analysis Of Dab In Awgn, Rayleigh And Rician Channel   |
| 14. | Lalit Kumar           | Prof Nagendra Sah                    | Performance And Comparative Analysis Of Multicast Routing Protocols In Manets.                                 |
| 15. | Khushal Sharma        | Prof Nagendra Sah                    | Simulation And Performance Comparison Of Unicasting Routing Protocols In Manets.                               |
| 16. | Raj Bala              | Prof Divya                           | Performance Analysis & Design Of Fttb-Bpon System Using Ofdm.  |
| 17. | Prashant Khanduri     | Prof Divya                           | Performance Analysis & Design Of Mimo Wireless Communication   |
| 18. | Sarat Chandra         | Prof Bipan Kaushal                   | Speech Quality Voip Networks   |
| 19. | Preety Singla         | Dr Neena Gupta                       | Performance Analysis Of Free Space Optical Communication System With Improved Ocdma Pseudo-Orthogonal 2d Codes |
| 20. | Dinesh Kumar          | Dr Deepak Bagai                      | Proposed Model Of Mobile Phone Antenna To Reduse Radiation Hazards.  |
| 21. | Pradeep Singhal       | Dr Neena Gupta                       | A Novel Technique For Security Enhancement In Static Wireless Sensor Networks.                                 |
| 22. | Mohd Junaid Khan      | Sh Dalip Kumar<br>Prof. Nagendra Sah | Development Of Microcontroller Based Soil Tester & Analyzer.   |
| 23. | Raheem Khan           | Sh Dalip Kumar<br>Prof. Nagendra Sah | Controlling Of Irrigation Valves Through Mobile Phone Using GSM Modems   |

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|-----|---------------------|--|--|
| 24. | Deepak Kumar        | Sh Dalip Kumar<br>Prof Jasbir Kaur       | Hardware Implementation Of Residuel Approach On The Cluster Head Selection.            |
| 25. | Priyanka Pannu      | Sh Mandeep Singh<br>Prof Amita Soni      | Design & Development Of Remote Field Monitoring System.                                |
| 26. | Jasjeet Singh       | Sh Mandeep Singh<br>Dr. Deepak Bagai     | Solar Power Inverter   |
| 27. | Ashish Agarwal      | Sh Mandeep Singh<br>Dr. Neena Gupta      | Intelligent Helmet For Coal Miners   |
| 28. | Ashwani             | Sh Mandeep Singh<br>Prof Bipan Kaushal   | Design Of Hydroponic Garden Automation & Monitoring                                    |
| 29. | Jai Parkash         | Sh. Ajay Mudgil<br>Dr Neelu Jain         | Automatic Gate Control System For Railway Road Crossing                                |
| 30  | Ravinder Kumar      | Sh. Ajay Mudgil<br>Prof Rita Mahajan     | Automatic Speed Braking System with IR Sensor  |
| 31. | Gagandeep           | Sh. Ajay Mudgil<br>Dr. Neena Gupta       | Automatic Plantation System.   |
| 32. | Saket Arya          | Sh. Ajay Mudgil<br>Dr Neelu jain         | Design & Development Of Air Pollution Monitoring System Using Zigbee Technology.       |
| 33. | Praveen Kumar Singh | Sh Dalip Kumar<br>Dr. Neelam Rup Prakash | Design & Development of Quantity Based Irrigation Schedule.                            |
| 34. | Priyaranjan         | Sh Dalip Kumar<br>Dr. Deepak Bagai       | Design & Development of Zigbee Based Soil Moisture Monitoring System.                  |
| 35. | Roopinder Kaur      | Sh Jaspal Singh<br>Sh. Sukhwinder Singh  | Vehicle Tracking & Device Controller   |
| 36. | Lalit Kumar         | Sh Jaspal Singh<br>Prof Divya            | Design Of Green House Environment Monitoring System USING Zigbee Based AD-HOC Network. |
| 37. | Luxmi Narain        | Sh Jaspal Singh<br>Prof V Rihani         | Design & Development of Digital Weather Station with Wireless Transmission.            |
| 38. | Himanshu            | Sh Jaspal Singh<br>Prof V Rihani         | Design & Development Of Electronic System For Measurement Of Weather Parameters.       |
| 39. | Sumit Mittal        | Sh S P Sood<br>Dr. Neelam Rup Prakash    | A Line Follower Robot For Transport Application In Hospital Domain.                    |



|     |                 |                                    |   |
|-----|-----------------|------------------------------------|---|
| 40. | Mohandeep Singh | Sh. Ajay Mudgil<br>Prof Amita Soni | Design & Development Of Microcontroller Based Irrigation Scheduling.  |
| 41. | Robin Goel      | Sh S P Sood<br>Prof Jyoti Kedia    | Intelligent Remote Messaging System Using Gsm.  |
| 42. | Ankur Gaur      | Prof Sukhwinder Singh              | A New Technique For Salt & Pepper Noise Removal.  |
| 43. | Gagandeep Kaur  | Jayjee<br>Dr Neena Gupta           | Performance Analysis And Design Of All Optical Logic Gates Using Cross Gain Modulation (Xgm) Of Semiconductor Optical Amplifiers (Soas) |

### **Information Technology**

|    |                     |                  |   |
|----|---------------------|------------------|---|
| 1. | Sudheer Kumar Singh | Prof Alka Jindal | Analysis and improvement of location privacy in pervasive computing environment |
| 2. | Mansi Hasija        | Prof Alka Jindal | Analysis of watermarking techniques and proposal of a new technique             |
| 3. | Sandeep Mahapatra   | Prof Rupali Syal | Pattern Evaluation of AES using Monte Carlo Test                                |
| 4. | Sudhanshu           | Prof Rupali Syal | Data Hiding in Images Using MATLAB  |
| 5. | Arun Kumar Gautam   | Prof Rupali Syal | Image Encryption Using S_DES Based on Chaotic Map                               |

### **Mechanical Engineering**

|    |                |                  |  |
|----|----------------|------------------|--|
| 1. | Ankit Vashisht | Dr Alakesh Manna | “A study on Rotary electrode Electrochemical Machining of Al/SiC-MMC”  |
| 2. | Pranshu        | Dr Alakesh Manna | “An Experimental study on Centrifugal Assisted Abrasive Rotary Drum Finishing of Al/Al <sub>2</sub> O <sub>3</sub> -MMC Cylindrical Surface” |

### **Industrial Materials & Metallurgy**

|    |                 |              |   |
|----|-----------------|--------------|---|
| 1. | Harpal Singh    | Dr Uma Batra | Synthesis of Magnesium Doped Nano HAP through Ultrasonic Coupled Sol-gel Route and Bioactivity Evaluation in Simulated Body Fluid |
| 2. | Jasvinder Singh | Dr Uma Batra | Synthesis of Magnesium Doped Nano HAP through Sol-gel Route and Bioactivity Evaluation in Simulated Body Fluid                    |

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|----|--------------------------|---------------------------------|--|
| 3. | Avtar Singh              | Dr Uma Batra                    | Electrical Discharge Machining of Austempered Ductile Iron Optimization and Control of Electrical Parameters For Performance Improvement by DOE Approach |
| 4. | Jaspreet Singh           | Prof J D Sharma<br>Dr Uma Batra | Analysis of Non conventional machine process of ADI  |
| 5. | JatinderPal Singh        | Prof J D Sharma<br>Dr Uma Batra | Machinability study of ADI   |
| 6. | Arshdeep Singh           | Prof J D Sharma<br>Dr Uma Batra | Wear resistance characteristics of ADI with varying austempering temperature   |
| 7. | Prashant Goel            | Prof J D Sharma<br>Dr Uma Batra | Variation of wear resistance of ADI at different time of austempering  |
| 8. | Amrinder Singh<br>Chahal | Prof P Thareja                  | Competitive evaluation of Castability with and without simulation  |
| 9. | Atul Sharma              | Prof P Thareja                  | Improving cycle time using value strain mapping in foundry   |

### **Production Engineering**

|    |                           |                  |   |
|----|---------------------------|------------------|---|
| 1. | Rohit Sharma              | Dr Praveen Kalra | Simulation of Robotised MIG Operation using RobotStudio   |
| 2. | Rohit Sharma              | Dr Praveen Kalra | Simulation of Robotised Gluing Operation using Robot Studio   |
| 3. | Anil Baweja               | Dr Praveen Kalra | Optimisation of Process Parameters for Lifting Task in Industry   |
| 4. | Amninderdeep<br>Singh     | Dr Praveen Kalra | Work Injury Analysis in a Production Workcell using Simulation Approach   |
| 5. | Sukhninder Singh<br>Sidhu | Dr Praveen Kalra | Identification of Mental and Muscle Fatigue in Industry   |
| 6. | Narendra Panwar           | Prof M M Goud    | An experimental study on cast aluminium 2014 composites reinforced with silicon carbide and fly particles                   |
| 7. | Yashpa                    | Prof M M Goud    | An experimental investigation of AA-Al <sub>2</sub> O <sub>3</sub> -fly ash composite produced by using stir casting method |
| 8. | Deep Kanwar               | Dr R S Walia     | Study of Roller Burnishing Process Using FEM Modelling  |

|     |                      |                       |  |
|-----|----------------------|-----------------------|--|
| 9.  | Mandeep Singh        | Dr R S Walia          | Design and development of Abrasive Flow Machining Setup  |
| 10. | Amninderdeep Singh   | Dr R S Walia          | Work Injury Analysis in a Production Work cell Using, Simulation Approach  |
| 11. | Anil Baweja          | Dr R S Walia          | Optimization of Process Parameters for Lifting Task in Industry  |
| 12. | Mohit Sharma         | Dr R S Walia          | Study of helical abrasive flow machining   |
| 13. | Sumit Mirg           | Dr R S Walia          | Study of centrifugal force assisted abrasive flow machining process  |
| 14. | Prince Sharma        | Dr R S Walia          | Numerical analysis of low-pressure cold spray process nozzles for optimal design   |
| 15. | Neeraj Kamboj        | Dr R S Walia          | Optimal availability analysis in Thermal Power Plant   |
| 16. | Harshit              | Dr N M Suri           | Development of flux and hard facing  |
| 17. | Mukesh               | Dr N M Suri           | Recycling of S.S. Flux   |
| 18. | Shivandra            | Dr N M Suri           | Effect of process parameters on bead geometry using S.S.Flux   |
| 19. | Gyanendra Singh      | Dr N M Suri           | Optimization of welding parameters & their influence on the characteristics of resistance spot welding of 304 austenitic stainless steel                 |
| 20. | Amit Sharma          | Dr R M Belokar        | Value Analysis Of Concealed Flush Valve  |
| 21. | Harmanjeet Singh     | Dr R M Belokar        | Master Production Schedule In A Manufacturing Industry   |
| 22. | Parvesh Kr Rajvanshi | Dr R M Belokar        | Process Capability Study In A Manufacturing Industry   |
| 23. | Shivinder Singh      | Prof Rahul O. Vaishya | Development Of Al6063-Sic Mmc Using Stir Casting Process Metal Matrix Composite Characterisation Of Aluminum-Fly Ash Composite Using Stir Casting Method |

## M.E. THESIS (2012)

| S. No.                   | Name of Candidate | Guide         | Title of Thesis   |
|--------------------------|-------------------|---------------|---|
| <b>Civil Engineering</b> |                   |               |   |
| 1.                       | Avani Chopra      | Tripta Goyal  | Analysis of Disputes Settlement in Highway Projects (Case Studies)                        |
| 2.                       | Navdeep Singh     | Tripta Goyal  | Justification of a Bypass on State Highway Kotla-Ranital section                          |
| 3.                       | Gurpreet Singh    | Tripta Goyal  | Feasibility of Flyover on Major Intersections of Moga at NH-95                            |
| 4.                       | Isha              | S.K. Sharma   | Electro-Chemical Treatment of Industrial Wastes   |
| 5.                       | Deepinder Singh   | S.K. Sharma   | Effect of surface water pollution on groundwater: A case study                            |
| 6.                       | Gursimran Singh   | S.K. Sharma   | Effect of polluted surface water on groundwater: A case study on Budha Nallah             |
| 7.                       | Gurmanwant Kaur   | S.K. Sharma   | Ground Water Pollution by Polluted Surface Water  |
| 8.                       | Kanika            | S.K. Sharma   | Effect of Surface Water Pollution on Groundwater: A case study of N-choe (Punjab)         |
| 9.                       | Sanket Sharma     | Sarita Singla | Experimental study as the Mechanical properties and Permeability of pervious concrete     |
| 10.                      | Taranjeet Kaur    | Sarita Singla | Behaviour of RCC Tall Building Subjected to Wind Loads                                    |
| 11.                      | Navdeep Soni      | Sarita Singla | Soil Structure Interaction Effect on An Asymmetric Multistoried building with Shear Walls |
| 12.                      | Chabi Gupta       | Roshan Lal    | Study on Reinforced Concrete Corned Joints Containing Steel Fibers                        |
| 13.                      | Gagandeep Singh   | Roshan Lal    | A Comparative Study on Steel Truss Bridges  |
| 14.                      | Deepak Singla     | Roshan Lal    | A Comparative Study on Reinforced Concrete Bridges using Grillage Analogy                 |
| 15.                      | Manoj Kumar       | Roshan Lal    | Finite Element Analysis of Reinforced Concrete Framed Corner Joints                       |

|     |                 |            |  |
|-----|-----------------|------------|--|
| 16. | Arashdeep Singh | Roshan Lal | A Comparative Study on effect of Shear Walls on Seismic Behaviour of R.C. Framed Buildings |
|-----|-----------------|------------|--|

### Computer Science & Engineering

|     |                  |                      |   |
|-----|------------------|----------------------|---|
| 1.  | Abhay Sharma     | Prof. Ajay Mittal    | Vibro-Tactile representation of Obstacles in Stereo Vision based ETA systems                            |
| 2.  | Alka Mittal      | Dr. Divya Bansal     | Modelling of Attacks in Vehicular Ad Hoc Network  |
| 3.  | Amar Mandal      | Prof. Rupali Syal    | Performance Analysis of Modular Multiplication  |
| 4.  | Ankita Jiwan     | Dr. Shailendra Singh | Identification of Pseudoknots in RNA sequences using Learning Grammar Modal (LGM)                       |
| 5.  | Arjun Bedi       | Dr. Divya Bansal     | An approach for the lawful Interception of audio communication of Skype application on Windows Platform |
| 6.  | Avinash Verma    | Dr. Divya Bansal     | Modelling Information Security Risk Assessment Framework  |
| 7.  | Deepak Singla    | Prof. Rupali Syal    | Encrypted text steganography in Images  |
| 8.  | Dilpreet Kaur    | Dr. Shailendra Singh | Recurrent Neural Network based Classification of Protein -Protein Interactions                          |
| 9.  | Hirdesh Kumar    | Prof. Padmavati      | Face Recognition by using SIFT for varying condition by using different matching methods                |
| 10. | Mohit Tyagi      | Prof. Ajay Mittal    | Motion Based Obstacles Detection using Optical Flow   |
| 11. | Mridu Gupta      | Dr. Shailendra Singh | Genetic Algorithm based optimizationn of Distance Matrix for Reliable Phylogenetic Tree Construction    |
| 12. | Prashant Manohar | Dr. Shailendra Singh | Refinement of Parameter of Fuzzy Charateristics Function for Protein Sequence Alignment                 |
| 13. | Pratibha Sharma  | Dr. Divya Bansal     | Establishing Trust in Identity Management for Cloud Environment   |
| 14. | Rahul Prakash    | Prof. Padmavati      | Face Recognition by using Binary-SIFT algorithm and Performance Evaluation in Comparison with STFT      |

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|-----|-------------------|--|---|
| 15. | Richa Chhabra     | Dr. Sanjeev Sofat                        | Coarse Grain Parallelization of AES using MPICH2 and Performance Analysis on Windows Clusters   |
| 16. | Saket Bhardwaj    | Prof. Ajay Mittal                        | Color Edge Detection in Perceptually Uniform CIE-Lab Color Space                                |
| 17. | Sanjay Gulati     | Dr. Divya Bansal                         | Fast Force Attack: A faster brute force password cracking attack                                |
| 18. | Savina            | Dr. Sanjeev Sofat                        | An Energy Efficient Routing Algorithm using cross layer approach for wireless sensor networks   |
| 19. | Sunil Kumar       | Prof. Padmavati                          | Performance Analysis of modified STFT and Performance Comparison of modified STFT, STFT and FFT |
| 20. | Suryakant Singh   | Prof. Ajay Mittal                        | Feature based Obstacle Detection using Phase-Based Correspondence Matching and Image Declivity  |
| 21. | Tanvi             | Dr. Sanjeev Sofat                        | Cross Attack: A Modified and Improved Dictionary based Password Cracking Attack                 |
| 22. | Monika Goyal      | Prof. Arvind Kakria<br>Sh. Sanjay Batish | Effective Routing Protocol for Vehicular Ad hoc Network   |
| 23. | Manmohan Singh    | Prof. Navdeep Kaur                       | A Robust method for hiding Data in Images by Maintaining Image Quality                          |
| 24. | Vikas Sagar       | Prof. Rupali Syal                        | Performance Analysis of Sliding Window Modular Exponentiation Methods                           |
| 25. | Mamta Sharma      | Prof. Ajay Mittal                        | Disparity Calculation based on Region Segmentation  |
| 26. | Supreet Kaur Gill | Prof. Manvjeet Kaur                      | Fingerprint Biometric Template Security using Fuzzy Vault                                       |
| 27. | Dhriti            | Prof. Manvjeet Kaur                      | Multimodal Biometric Feature Level Fusion using Face and Fingerprint                            |
| 28. | Aparna Sharma     | Prof. Manvjeet Kaur                      | Fingerprint Template Security using Hashing   |

### **Electrical Engineering**

|    |                         |                          |  |
|----|-------------------------|--------------------------|--|
| 1. | Pavan Kumar<br>Penchala | Prof. Jaimala<br>Gambhir | Design of self tuned PI controllers for DFIG Based Wind Farm in a Smart Grid |
|----|-------------------------|--------------------------|--|

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|-----|------------------------|-----------------------|--|
| 2.  | Mukul Nakra            | Prof. Raminder Kaur   | Transmission expansion planning with wind farms in deregulated environment   |
| 3.  | Yogesh Kumar           | Prof. Loveleen Kaur   | Transient analysis of self-excited induction generator with electronic load controller (ELC) supplying single phase load |
| 4.  | Sandeep Kakran         | Dr. Tarlochan Kaur    | Transient stability improvement of long transmission line by using SVC and to study effect of it's location              |
| 5.  | Mohammed Israfil       | Prof. Sulata Bhandari | Design and performance analysis of pitch controller circuit of wind turbine  |
| 6.  | Mohd. Shoeb Mohiuddin  | Prof. Sulata Bhandari | Peformance analysis of fuzzy logic based speed control of separately excited DC motor                                    |
| 7.  | Varun Kumar            | Prof. Puneet Arora    | Optimal load shedding for voltage stability enhancement  |
| 8.  | Aeidapu Mahesh         | Dr. Balwinder Singh   | Vector control of induction motor using artificial neural network based on pso algorithm.                                |
| 9.  | Manish Gupta           | Dr. Balwinder Singh   | Sizing and placement of capacitor for loss minimization in distribution system by Tabu Search.                           |
| 10. | Himanshu               | Dr. Rintu Khanna      | Voltage stabilization of wind power using sliding mode control technique.  |
| 11. | Sharad Kumar Pandey    | Dr. Rintu Khanna      | Optimal location and sizing of STATCOM in power system using particle swarm optimization.                                |
| 12. | Amit Pathria           | Dr. Shiv Narayan      | Design and Analysis of robust controller in two degree of freedom configuration.   |
| 13. | Mohit Kumar            | Dr. Shiv Narayan      | H-infinity based design ad analysis of robust control & system.  |
| 14. | Shailendra Kumar Gupta | Dr. Tilak Thakur      | Enhancement the dynamic performance of micro induction generator in micro generation using smart controller              |
| 15. | Suvrat Bhatt           | Prof. S.K.Suman       | Strategies for placing PMUs and benefits gained in state estimation  |
| 16. | Uma Shankar            | Prof. K.K.Garg        | Comparison of various methods for tuning PID parameters  |

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|-----|------------------|--------------------|--|
| 17. | Yatish Choudhary | Prof. Rashmi Vikal | A neural network based power system stabilizer for the stability analysis of SMIB power system |
| 18. | Parvesh Gupta    | Dr. Gurnam Singh   | Evolving fuzzy logic speed controller for high performance induction motor drive               |

### **Electronics & Electrical Communication Engineering (Electronics & EPDT)**

- |     |                     |                      |  |
|-----|---------------------|----------------------|--|
| 1.  | Manoj Kumar Meena   | Dr. Neelam R Prakash | ARM-9 Better option over ARM-7 for low power serial communication naval applications                           |
| 2.  | Amit Laddi          | Prof. Jasbir Kaur    | Machine vision based sorting and grading of Indian black tea   |
| 3.  | Vipan Gupta         | Prof. Rita Mahajan   | Design & development of wireless anti spoofing device for measuring heart rate, blood oxygen concentration     |
| 4.  | Anurag Bansal       | Prof. Rita Mahajan   | Spectrum sensing management and mobility in cognitive radio system using energy detection                      |
| 5.  | Amandeep            | Prof. Bipan Kaushal  | MATLAB based physical signal processing and graphical plotting using PC  |
| 6.  | Varun Goyal         | Prof. Divya          | Design & Implementation of Virtual Fencing using RF module   |
| 7.  | Vikram Mehta        | Dr. Neena Gupta      | Analysis of QOS parameter using AODV Protocol and implementation of ANFIS in WI max Networks                   |
| 8.  | Deepti Punjabi      | Dr. Neena Gupta      | A novel design of Green next generation GPON network using boosting tree classification and regression control |
| 9.  | Prabhmandeep Kaur   | Prof. Divya          | Design and comparative analysis of LDPC coded Optical Communication system                                     |
| 10. | Vandana Kumari      | Prof. Divya          | Performance Analysis of 160 GB/s PM QPSK System with EDFA and Raman amplification                              |
| 11. | Rishubh Garg        | Prof. Jyoti Kedia    | Behavioral modeling of STT_M TJ and design of MTJ based rules  |
| 12. | Prabhat Shukhla     | Prof. Jasbir Kaur    | Performance analysis of Array, Wallace and Booth Multipliers   |
| 13. | Naveen Kumar Gahlan | Prof. Jasbir Kaur    | Optimization of speed using compressors  |



|     |                        |   |  |
|-----|------------------------|---|--|
| 14. | Mohit Kumar Goel       | Prof. Neelu Jain                              | Visual Cryptographic Stanograph  |
| 15. | Dushyant Singh         | Prof. Neelu Jain                              | Modified SIFT based fingerprint recognition system   |
| 16. | Sanjeev Kumar          | Dr. Amita Soni                                | Design and analysis of post coded MIMO OFDM systems  |
| 17. | Dhanajay               | Dr. Amita Soni                                | An improved parametric approach using channel sensing and Kalman filter for CDMA Communication system. |
| 18. | Anurag Bansal          | Prof. Rita Mahajan                            | Spectrum Sensing management and mobility in cognitive radio using Energy detection                     |
| 19. | Mahesh Kumar           | Prof. Sukhvinder Singh                        | Edge detection and denoising of Medical Images using Morphology  |
| 20. | Harish Kr Aggarwal     | Prof. Bipin Kauahal                           | Simulation and performance comparison of reactive proactive and Hybrid routing protocols in MANETS     |
| 21. | Anuj Aggarwal          | Prof. Nagendra Sah                            | Predicting the suitable parameters of indoor propagation model using CSP algorithm                     |
| 22. | Arvind Hooda           | Prof. Nagendra Sah                            | Analysis and optimization of parameters for minimum path loss in underground tunnels CSP               |
| 23. | .Jitender Singh        | Dr. Deepak Bagai                              | Improved Algorithm for face recognition  |
| 24. | Rohit Heera            | Dr. Deepak Bagai                              | Forecasting of computer waste generation in India  |
| 25. | Tejinder Sheoran       | Sh Dilip Kumar<br>Neelam R Prakash            | Design and development for Green house Dr. parameters monitoring and controlling system                |
| 26. | Kanwaljeet Singh       | Sh. Mandeep Singh<br>Dr. Neena Gupta          | Design and implementation of cell phone defection based line followers robot                           |
| 27. | Anup Aggarwal          | Sh. Jaspal Singh<br>Dr. Neelu Jain            | Visual Stethoscope   |
| 28. | Rajesh Pathak          | Sh. Jaspal Singh<br>Dr. Deepak Bagai          | Microcontroller based Programmable anesthesia drug delivering machine                                  |
| 29. | Neeraj Kumar<br>Sharma | Sh. Jaspal Singh<br>Prof. Sukhvinder<br>Singh | Design and development of a microwave resonator type blood glucose sensor                              |
| 30. | Deepak Kumar           | Sh. Jaspal Singh<br>Prof. Bipin Kaushal       | DTMF based multipurpose robotic security system  |

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|-----|-------------------|--|---|
| 31. | Kunal Maurya      | Sh. Mandeep Singh<br>Dr. Neelu Jain          | Real time vehicle tracking system using GSM and GPS technology.                               |
| 32. | Vipin Gupta       | Sh. Mandeep Singh<br>Prof. Rita Mahajan      | Design and development of anti spoofing device for measurement of heart rate.                 |
| 33. | Deepak Punetha    | Sh. Mandeep Singh<br>Prof Divya              | Feasibility of a GSM based module based wireless vehicle accident detection and alert systems |
| 34. | Sanjeev Kumar     | Sh. Vikas Goel<br>Prof. Nagendra Sah         | Design and development of RFID based highway toll tax collection system                       |
| 35. | Vikas Gupta       | Sh. Vikas Goel<br>Prof. Jasbir Kaur          | Design and development of interfacing mechanism for thermal Printer and software driver       |
| 36. | Somvir            | Sh. Vikas Goel<br>Dr. Amita Soni             | Design of voice operated vault  |
| 37. | Ravi Ranjan       | Sh. Vikas Goel<br>Dr. Deepak Bagai           | Intelligent Electronics Talking Blind Stick (IETBS)   |
| 38. | Kesri Nandan      | Sh. Dilip Kumar<br>Dr. Neelam Rup<br>Prakash | An autonomous vehicle forming using GPS   |
| 39. | Praveen Kumar     | Sh. Ajay Mudgil<br>Prof. Nagendra Sah        | Voice operated fire extinguisher system.  |
| 40. | Amandeep          | Sh. Ajay Mudgil<br>Prof. Bipin Kaushal       | Matlab based physical signal processing and graphical plotter.                                |
| 41. | Ishan Khuarana    | Sh. Ajay Mudgil<br>Prof. Jasbir kaur         | Design and development of Wireless sensor network using Zigbee.                               |
| 42. | Varun Goyal       | Sh. Ajay Mudgil<br>Prof. Divya               | Design and implementation of virtual fencing using RF module.                                 |
| 43. | Anil Kakran       | Sh. Ajay Mudgil<br>Prof Rita Mahajan         | Machine vision based Automated object Sorter using digital Image Processor.                   |
| 44. | Shubhanshu Gupta  | Sh. Ajay Mudgil<br>Dr.Amita Soni             | Design and implementation of GSM based Green house Plant growth Monitoring system.            |
| 45. | Devender Ahalawat | Sh. Dilip Kumar<br>Dr. Neena Gupta           | Design and Development of Single and Multiple output Switch Mode Power Supply                 |
| 46. | Abhinandan Jain   | Sh. Dilip Kumar<br>Prof. Jyoti Kedia         | Design and development of GSM based Automatic Energy meters reading systems                   |

## Mechanical Engineering

1. Arvind Kulshri Dr. S.K. Mangal Study and Analysis of Magneto Rheological Fluid Clutch
2. Daman Vir Singh Dr. D.R. Prajapati An Experimental Study on the Optimization Wheel Manufacturing Process by Using Taguchi Methodology
3. Karan Jain Prof. Rajesh Kumar Thermal Management Solution for Low Volume Complex Electronic Systems
4. Ajay Pal Singh Prof. Rajesh Kumar Quantities Analysis of Musculoskeletal Disorders and work Cycle Design for Low Load High Frequency Grinding Job in Delmia Human
5. Eshan Gupta Dr. Arun K Lall Study of Pressure, Velocity and Temperature Distribution Among Single and Multiple Parallel Microchannels
6. Gurpreet Singh Dr D. R. Prajapati Study of fuel efficiencies by blending with other Sudan fuels using computerized variable compression ratio multifuel engine test rig.
7. Mandeep Singh Dr. Perminderjit Singh Effect of Thermal Power Plants on Environment
8. Mukesh Kumar Dr. Arun K. Lall Comparison of newly developed shearography with nondestruction evaluation methodologies for the inspection of helicopter tail blade rotar
9. Nipun Kansal Dr. Sushant Samir Resolution of Unequal Braking Force for Precision Stopping of Heavy Commercial Vehicle
10. Nitin Kapoor Dr. S.K. Mangal Analysis of Steady State Creep In Functionally Graded Rotating Cylinder
11. Robin Goel Dr. Alakesh Manna A Study on Welding of Cast Hybrid Al/(SiC+Gr) – MMC
12. Sachin Gogia Dr. Alakesh Manna An Experimental Investigation on EDM on Cast Hybrid Al/(SiC+Gr) – MMC
13. Sameer Kumar Angaria Dr. Sushant Samir Study of Thermal Response of the Model of Seminar Rook to Varied Occupancy Pattern for different Month
14. Somvir Singh Dr. Sanjeev Kumar Thermal Effect of Aluminum, Brass and Titanium Tool Electrodes in EDM Process

|     |                 |                        |  |
|-----|-----------------|------------------------|--|
| 15. | Pardeep Singh   | Dr. Perminderjit Singh | To Study the Effect of Cement Industry on Environment                                      |
| 16. | Maninder Singh  | Dr. Sanjeev Kumar      | Thermal Stress Analysis of Brass and Nichrome Tool electrodes in Wire EDM                  |
| 17. | Amarinder Singh | Prof. Rajesh Kumar     | An Ergonomic Analysis and Work Cycle Design of the Grinding Task in an Industry Using OCRA |
| 18. | Amandeep Sharma | Dr. Arun K Lall        | To Study the Modeling Analysis and Design of MEMS Gyroscope                                |

### **Industrial Materials & Metallurgy Engineering**

|     |                      |                  |  |
|-----|----------------------|------------------|--|
| 1.  | Navjot Singh         | Dr. Uma Batra    | Merchantability Study of Autempered Ductile  |
| 2.  | Ankit Dua            | Dr. Uma Batra    | Capping Agent Assisted Synthesis And Mechanism of Nanoized Magnesium Doped Hydroxyapatite  |
| 3.  | Navdeep Singh        | Dr. Uma Batra    | Effect of Postweld Heat Treatment on Microstructure and Hardness of GTAW Weldment between P22 and P91 Steels                         |
| 4.  | Manish Sharma        | Dr. Uma Batra    | Nanocrystalline Hydroxyapatite doped with Magnesium Synthesis and Mechanism Study  |
| 5.  | Jagat Upadhyay       | Dr. Uma Batra    | Synthesis and Characterization of Strontium Doped Brushite Cement  |
| 6.  | Jagjot Singh         | Prof. J D Sharma | Challenges in Casting of Chill Rolls for Rolling Mills and Their Remedies  |
| 7.  | Devender Kumar       | Prof. J D Sharma | Influence of Austempering Time of Kinetics & Volume Fraction of Retained Austenite In Unalloyed And Alloyed Austempered Ductile Iron |
| 8.  | Sahil Sharma         | Prof. J D Sharma | Influence of Austenitizing Temperature on Mechanical Properties of ADI   |
| 9.  | Sunny Puri           | Prof. J D Sharma | Effect of Austempering Temperature On Machinability of Austempered Ductile Iron  |
| 10. | Ravi Kumar           | Prof. J D Sharma | Development of wear and mechanical properties of ADI with the help of two step austempering process                                  |
| 11. | Vikasdeep Singh Mann | Prof.P.Thareja   | Lean mean green manufacturing through value stream mapping   |

|     |                      |                |   |
|-----|----------------------|----------------|---|
| 12. | Ramandeep Singh      | Prof.P.Thareja | Simulation of failure analysis of connecting rod  |
| 13. | Sahijpal Singh       | Prof.P.Thareja | To study the wear behaviour of hardfacing alloys on tensile steel EN14B used in agricultural tools.                     |
| 14. | Handip Singh         | Prof.P.Thareja | Friction stir welding of dissimilar Aluminium alloys AA-5083/6063, Mechanical properties and Microstructural Evaluation |
| 15. | Hem Raj              | Prof.P.Thareja | Defect Abatement in automobile wheel manufacturing: DMAIC Journey   |
| 16. | Harkamal Preet Singh | Prof.P.Thareja | Experimental investigation of wear and corrosion on Al/Al203-MMC  |

### **Production Engineering**

|    |                  |                                 |   |
|----|------------------|---------------------------------|---|
| 1. | Ajay Singh Verma | Dr. N M Suri<br>Dr.Suman Kant   | Effect of process parameter of AL -6063 based flyash composites using taguchi and artificial neural network     |
| 2. | Amanpreet Singh  | Prof.M.M.Goud<br>Dr. Suman Kant | Study of effect of outlet positions on intermixing in a six stand billet caster tundish                         |
| 3. | Gundeep Singh    | Dr.R.M.Belokar                  | Implementation of lean manufacturing in spur gear production  |
| 4. | Gurmeet Singh    | Dr.N.M.Suri                     | Optimization of process parameters by evaluating mechanical feasibility of friction stir welded joint on AA6070 |
| 5. | Harpreet Singh   | Dr.P.Kalra                      | Study of handle position of box during manual lifting task  |
| 6. | Jagroop Singh    | Dr.P.Kalra<br>Dr.R.S.Walia      | Psychophysical evaluation of maximum acceptable weight of lift by 20 experienced male workers                   |
| 7. | Kishore Kumar    | Dr.R.S.Walia                    | Helical abrasive flow machining for finishing of different materials  |
| 8. | Kuljit Singh     | Dr.P.Kalra<br>Dr.R.S.Walia      | Study on the testing satisfaction of Indian mobile phone users  |
| 9. | Nikhilesh Singh  | Dr.R.M.Belokar<br>Dr.R.S.Walia  | Physiological evaluation of manual lifting tasks on Indian male workers   |

|     |                        |                                |   |
|-----|------------------------|--------------------------------|---|
| 10. | Sandeep Singh<br>Kharb | Dr.R.M.Belokar                 | An application of value stream mapping in automobile industry – a case study                              |
| 11. | Sudhir                 | Dr.R.M.Belokar                 | Restructuring manufacturing process using matrix method   |
| 12. | Vikas Kumar            | Dr.R.M.Belokar                 | Transformation of an org. into a lean organization through value stream mapping                           |
| 13. | Vikas Kumar            | Prof. R.O.Vaishya              | Experimental investigation for robust centrifugal force assisted abrasive flow machining                  |
| 14. | Yashveer               | Dr.R.M.Belokar                 | Optimization of time by elimination of unproductive activities through MOST                               |
| 15. | Virender Singh         | Dr.N.M.Suri                    | Development of SAW fluxes for HSLA and analysis of effects of welding parameters on mechanical properties |
| 16. | Lalit Ahuja            | Dr.R.S.Walia<br>Dr. Suman Kant | Study of helical abrasive flow machining process using 3easibilit neural network                          |

## M.E. THESIS (2013)

| S. No.                   | Name of Candidate | Guide                       | Title of Thesis  |
|--------------------------|-------------------|-----------------------------|--|
| <b>Civil Engineering</b> |                   |                             |  |
| 1.                       | Navpreet Soni     | S.K Singh<br>Rajesh Kumar   | Soil-Structure interaction effect on an asymmetric R.C building with shear walls                                   |
| 2.                       | Amrinder Singh    | S.K Singh                   | Potential use of recycled aggregate  |
| 3.                       | Saurav Puri       | S.K Singh                   | Numerical modeling and analysis of piled raft foundation   |
| 4.                       | Esha Thakur       | S.K Singh<br>Sarita Singla  | Feasibility study for use of scrap rubber tyre aggregate as a partial replacement of natural aggregate in concrete |
| 5.                       | Kuldeep Kumar     | Roshan Lal                  | Investigations on strength characteristics of concrete containing Recycled Aggregates of Marble and Granite waste  |
| 6.                       | Ishan             | Roshan Lal                  | Effect of openings in shear walls on seismic response of RC Framed   |
| 7.                       | Vishal Bhardwaj   | Roshan Lal                  | An Experimental Investigation on self compacting fibrous concrete  |
| 8.                       | Nipun Syal        | Roshan Lal                  | Retrofitting of RCC Beams using carbon fiber Reinforced Polymer and ferro cement                                   |
| 9.                       | Akshit Chandel    | Roshan Lal<br>Sarita Singla | Acceleration Response Spectrum Generation for Blast loading Applied to Single and Generalized Freedom System       |
| 10.                      | Arvind-           | Dr. R.R. Singh              | “Scope of use of coal tar and development of expert system for tar coal sealer”.                                   |
| 11.                      | Neeraj-           | Dr. R.R. Singh              | Strength of studies of “cement and crumbed rubber mix fly ash”   |
| 12.                      | Chirag Bansal     | Dr. R.R. Singh              | “Signalization review junction 42 in Chandigarh”.  |
| 13.                      | Sherry Verma      | Dr. R.R. Singh              | “Retro finding of old existing structure and cost of old with new”   |

|     |                 |                                     |  |
|-----|-----------------|-------------------------------------|--|
| 14. | Ms. Abha Gupta- | Dr. R.R. Singh                      | “Analysis of earth quake damaged RCC Structure using various retropting materials and techniques.”       |
| 15  | Jatin Anand     | Tripta Goyal                        | Feasibility Study of BRT Corridors in Chandigarh   |
| 16. | Loveneet Singh  | Tripta Goyal                        | Justification for signalization of a Congested Roundabout – A case study of Bathinda                     |
| 17. | Prateek Singh   | Dr Siby John<br>Dr Vasundhara Singh | Treatment of Petroleum Aromatic Hydrocarbons contaminated wastewater by Advanced Oxidation Process, 2013 |
| 18. | Manmohit Singh  | Dr Siby John                        | E-waste Inventory and Risk Assessment, 2013  |
| 19. | Rupinder Kumar  | Dr Umesh Sharma                     | Comparision Study between Conventional Plastic and Rubber Modified Bituminous Mixes                      |
| 20. | Tejinder Singh  | Dr Umesh Sharma                     | Strengthening of Subgrade by using RBI Grade-81: A Case Study  |

### **Computer Science & Engineering**

|    |                       |   |   |
|----|-----------------------|---|---|
| 1. | Parmod K. Kalia       | Dr. Sanjeev Sofat<br>Dr. Divya Bansal   | Cloud Computing & Privacy Regulations :Issues & Regulations   |
| 2. | Abhishek              | Dr. Shailendra Singh                    | A Gene regulatory Network Prediction Method using PSO and GA  |
| 3. | Akashdeep Singh Sarin | Dr. Trilok Chand                        | A Hybrid Protocol for Achieving Reliability in Wireless Sensor Networks                                   |
| 4. | Devan thakur          | Dr. Sanjeev Sofat/<br>Dr. Sanjay Batish | A border node preference routing protocol for Vanet   |
| 5. | Harmandeep Singh      | Dr. Sanjeev Sofat<br>Dr Sanjay Batish   | Enhancement Unicast routing protocol for Vanet  |
| 6. | Hitesh Garg           | Prof. Alka Jindal                       | Thyroid Segmentation in Ultrasound images using FF Neural Network   |
| 7. | Kritika Gupta         | Dr. Shailendra Singh                    | Encryption & Authentication based on DMA Syst   |
| 8. | Pankaj Tanwar         | Dr. Divya Bansal                        | Risk Management Methodology Based of Quantitative Analysis Using Regression Technique for Risk Prediction |
| 9. | Priyanka Sharma       | Prof. Manvjeet Kaur                     | Multimodal Biometric Features Level Fusion of Face, Fingerprint and Palm with SVM Classifier              |



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|-----|------------------|----------------------|--|
| 10. | Rahul Hooda      | Prof. Manvjeet Kaur  | Enhanced Fingerprint Fuzzy Vault   |
| 11. | Rahul Sharma     | Prof. Padmavati      | Performance Analysis of reactive routing protocols in Vanet  |
| 12. | Ritu             | Dr. Shailendra Singh | Automatic Detection of Liver and Tumor in CT images using optimal feature based Neural Network                                   |
| 3.  | Shubham Gupta    | Dr. Divya Bansal     | A Cryptographic treatment to Secure Cloud Dbaas  |
| 14. | Sonam Bansal     | Prof. Ajay Mittal    | Computer Aided Bone Tumor segmentation using X-ray images  |
| 15. | Sukhwinder Singh | Prof. Rupali Syal    | Secure Model to control automation in Data Mining  |
| 16. | Sumit Kumar      | Dr. Shailendra Singh | Phylogenetic Tree construction using spanning tree appro   |
| 17. | Tarun Garg       | Prof. Navdeep Kaur   | Application Virtualization: A Cloud Based Alternative for Mobile Computing in resources constraint environment of Mobile Devices |
| 18. | Tripti           | Dr. Shailendra Singh | Splice site detection in DNA sequences using neural network  |
| 19. | Varun Singla     | Prof. Padmavati      | Performance Analysis of routing protocols in Vanet   |
| 20. | Yadraj Meena     | Prof. Ajay Mittal    | Surface defect detection on ceramic tile for quality control   |
| 21. | Tarun lohia      | Prof. Ajay Mittal    | Quantitative evaluation and analysis of image segmentation techniques  |
| 22. | Yash gupta       | Dr. Divya Bansal     | Bivariate Classifications of Malware in JavaScript using Dynamic Analysis  |
| 3.  | Geetika          | Prof. Manvjeet Kaur  | Multimodal based Fuzzy Vault using Iris, Retina and Fingervein   |
| 24. | Ravi Prakash     | Dr. Trilok Chand     | Multi Parameter Single Threshold based Load Balancing Algorithm for Cloud Computing Systems                                      |
| 25. | Dheeraj Sinhmar  | Prof. Ajay Mittal    | Vehicle License plate localization and recognition   |
| 26. | Kamal Kumar      | Prof. Rupali Syal    | Analysis of Decision tree algorithm in Data Mining   |

|     |                  |                     |  |
|-----|------------------|---------------------|--|
| 27. | Kamalpreet Singh | Dr. Divya Bansal    | Analyzing PCAP traffic files using Hadoop  |
| 28. | Kirandeep Kaur   | Dr. Divya Bansal    | Security vulnerabilities in SAML based single sign-on authentication in cloud                              |
| 29. | Bhavini Gautam   | Dr. Trilok Chand    | Enhanced Event Triggered Localization Algorithm for Mobile Wireless Sensor Networks                        |
| 30. | Kirti            | Dr. Ajay Mittal     | Automatic Noise Identification using GLCM Properties   |
| 31. | Monika Garg      | Dr. Sanjeev Sofat   | Predicting Trust in twitter based on PRM   |
| 32. | Nayandeep Sran   | Prof. Navdeep Kaur  | Zero Proof Authentication & Cost Efficient Load Balancing Algorithm for Dynamic Cloud Environment          |
| 33. | Neha Doda        | Dr. Sanjeev Sofat   | Detecting malicious users in twitter   |
| 34. | Ravinder Kaur    | Dr. Trilok Chand    | Performance Evaluation and comparison of multipath routing protocols for mobile wireless sensor networks   |
| 35. | Richa Jain       | Dr. Trilok Chand    | Study and analysis of contention based and TDMA based MAC Protocols for wireless sensor networks           |
| 36. | Sahil Gupta      | Prof. Manvjeet Kaur | Meliorating fingerprint fuzzy vault using polynomial   |
| 37. | Sonia            | Prof. Padmavati     | Performance Analysis of blackhole attack on Vanet reactive routing Protocol                                |
| 38. | Sumita Nagah     | Prof. Arvind Kakria | Performance Evaluation of MAC protocols for wireless sensor networks                                       |
| 39. | Vimmi Malhotra   | Prof. Lalit         | QoS based Analysis of IEEE 802.11 & 802.16 integrated networks   |
| 40. | Ankita Gupta     | Dr. Sanjeev Sofat   | Secure model to control automation in data mining  |
| 41. | Lalit Goel       | Prof. Arvind Kakria | An Improved S-Mac Protocol with modified scheduling and parallel transmission for Wireless Sensor networks |

### **Electrical Engineering**

|    |                |                  |  |
|----|----------------|------------------|--|
| 1. | Parvesh Kumar  | Dr. Shiv Narayan | Design of PID Controller Using Multiobjective Optimization with Genetic Algorithm. |
| 2. | Ravi Chaudhary | Dr. Shiv Narayan | Optimization Based Controller Design for Dead Time Systems                         |

|     |                    |  |  |
|-----|--------------------|--|--|
| 3.  | Devender Kumar     | Dr. Balwinder Singh                      | Transient Stability Using Artificial Neural Network Under Different Type Of Fault                    |
| 4.  | Mukta Gaur         | Dr. Balwinder Singh                      | Grid Stability Enhancement Through Fuzzy Logic Controlled Of HVDC In Deregulated Environment         |
| 5.  | Manoj Kumar        | Prof. S. K. Suman                        | To Enhance Reliability Of Supplying Local Loads By Integrating Renewable Energy Sources              |
| 6.  | Mudit Jaithalia    | Dr. Tarlochan Kaur                       | Integration And Optimization Of Renewable Energy Sources In Hybrid Power Systems                     |
| 7.  | Mukul Gaur         | Prof. Sulata Bhandari                    | Robust Stability Design Of PID Controllers For Transfer Function With Time Delay                     |
| 8.  | Sachin Goyal       | Prof. Sulata Bhandari                    | A Fuzzy-PID Pitch Controller For An Adjustable Pitch Wind Turbine                                    |
| 9.  | Parag lal          | Prof. K.K.Garg                           | Anti Windup PID Controller With Integral State Predictor For Variable Speed Motor Drives             |
| 10. | Rahul Kataria      | Prof. K.K.Garg                           | An Intelligent PID-PSO Controller For Dc Motor Drive   |
| 11. | Nishantq           | Dr. Jagdish Kumar                        | Optimized Harmonic Elimination Technique for CMLI with Unequal DC Sources                            |
| 12. | Prabhu Omer        | Dr. Jagdish Kumar<br>Dr. Balwinder Singh | Comparison Of Modulation Strategies For Cascaded MLI.  |
| 13. | Arvind Kumar Yadav | Dr. Jagdish Kumar                        | Performance Analysis Of Cascaded Multi-Level Converters as STATCOM.                                  |
| 14. | Anil Kumar         | Dr. Jagdish Kumar                        | Control Of Harmonics In Cascaded Multi-Level Inverter Using Neural Network                           |
| 15. | Vinita Vasundhara  | Dr. Rintu Khanna                         | Power Quality Enhancement By UPQC Using Intelligent Control  |
| 16. | Himanshu Batra     | Dr. Rintu Khanna                         | Improvement In The Performance Of AC/DC Systems Using SMES Unit                                      |
| 17. | Mohit Baliyan      | Prof. Puneet Arora                       | Estimation Of Voltage Stability Margin Using Coupled Single Port Network For Multi Load Power System |
| 18. | Varun Kumar        | Prof. Puneet Arora                       | Optimal load shedding for voltage stability enhancement  |

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|-----|------------------------|---|--|
| 19. | Inderjit Singh         | Prof. Puneet Arora                      | Steady State Voltage Stability Analysis Using PQ Curve.                                |
| 20. | Himanshu Verma         | Prof. Jaimala Gambhir                   | Wind Energy Integration with Grid Using Energy Storage                                 |
| 21. | VVSNL Surendra N       | Prof. Jaimala Gambhir                   | Modeling of DFIG Wind Energy System Using Power Transfer Matrix and Fault Analysis.    |
| 22. | Ram Mohan Rao Makineni | Prof. Loveleen Kaur                     | Design of IGBT Based Cascaded Multi-Level Converter In Traction Drive                  |
| 23. | Birender Singh Bhoria  | Prof. Loveleen Kaur                     | Impact Of Distributed Generation on Power Losses of Distribution Networks.             |
| 24. | Jagdeep Sheoran        | Prof. Raminder Kaur                     | Transmission Planning Of Renewable Energy Sources In Deregulated Environment           |
| 25. | Arvind Goswami         | Prof. Raminder Kaur & Dr. Jagdish Kumar | To Develop A Multi-Level Inverter System With Parameter Control Through Pc Interface   |
| 26. | Santosh Kumar P.       | Dr. Gurnam Singh                        | Flying Capacitor Multi-Level Inverter Based SSSC on Transmission Lines                 |
| 27. | Nagendra Bhaskar C.    | Dr. Tilak Thakur                        | Power Quality Improvement Using Cascaded H Bridge Multilevel Inverter Based D STATCOM. |
| 28. | T. Karthik Chandra     | Dr. Tilak Thakur                        | Current Source Inverter Based Electric Propulsion Drives Using Vector Control          |

### **Electronics & Electrical Communication Engineering (Electronics & EPDT)**

|    |                    |                        |  |
|----|--------------------|------------------------|--|
| 1. | Surbhi             | Dr. Neena Gupta        | A novel design of all optical logic gates using DM Solitions                                 |
| 2. | Nimisha Bhardwaj   | Dr. Neena Gupta        | Automatic Gain Control of Erbium doped fiber amplifier using fuzzy logic controller          |
| 3. | Anil Goyal         | Dr. Deepak Bagai       | An Improved Method of Cell to Switch Assignment in Cellular Communication Networks           |
| 4. | Shiv Krishan Joshi | Dr. Deepak Bagai       | Cyclostationary Based Spectrum Sensing Using Spectral Correction Function in Cognitive Radio |
| 5. | Umesh Goyal        | Dr. Neelam Rup Prakash | Design And Development Of M1000 Board For Power Management Systems At Telecom Cell Sites     |

|     |                    |                        |  |
|-----|--------------------|------------------------|--|
| 6.  | Akash              | Dr. Neelam Rup Prakash | Low Power Alu Design Using Clock Gating  |
| 7.  | Ashish Kashyap     | Dr. Neelu Jain         | Design and development of power management controller and craft terminal using 32 bit micro controllers              |
| 8.  | Arun Navaria       | Dr. Neelu Jain         | Denoising and feature extraction of ECG signal using discrete wavelet transform                                      |
| 9.  | Gaurav Khurana     | Nagendra Sah           | Design and implementation of AC interface card and remote monitoring of electrical parameters using Modbus protocol  |
| 10. | Sudhir Kant        | Nagendra Sah           | Performance Analysis of Mesh Based (ODMRP) Multicasting Routing Protocol   |
| 11. | Mandeep Singh      | Jasbir Kaur            | Comparison of Modified Multiplier Using Various Adders   |
| 12. | Kavita Saharan     | Jasbir Kaur            | Design and Implementation of Array, Wallace, Booth Modified Booth and Vedic Multiplier Using VHDL                    |
| 13. | Naveen Kumar Gupta | Divya                  | Physical Security of Wavelength Division Multiplexing Passive Optical Network (WDM-PON) Using Broadband Light Source |
| 14. | Ankit Sharma       | Divya                  | Design and Performance Analysis of Long Reach Hybrid WDM/TDM PON Using Colorless ONU                                 |
| 15. | Vikram Singh       | Dr. Amita Soni         | Performance analysis of MIMO Systems for various fading channels   |
| 16. | Sonu Raman         | Dr. Amita Soni         | Optimization of various parameters of microstrip UWB filters used in wireless application                            |
| 17. | Prateeksha Sharma  | Bipan Chand Kaushal    | Analysis of Dispersion Compensation of Optical Fiber Using EDFA and Pumping Techniques                               |
| 18. | Piyush Jain        | Bipan Chand Kaushal    | Optimization of Optical Hybrid Amplifiers for Long Haul Transmission   |
| 19. | Sumit Lohan        | Rita Mahajan           | Performance Evaluation of New Energy Detection Based Spectrum Sensing Methods in Cognitive Radio                     |
| 20. | Ajay Jatav         | Sukhwinder Singh       | Development of an Algorithm Based on DCT Matrix coefficients for Iris Recognition                                    |

## Mechanical Engineering

1. Rahul Jamwal Dr. D.R. Prajapati “Design and Analysis of Master Manipulator Towards Robotic Surgery Dissertation”
2. Anup Malik Dr. A. Manna  
Dr. Sushant Samir “Machining of E-Glass Fibre Epoxy Composite on Fabricated TW-ECSM Setup”
3. Mukul Kataria Dr. S.K. Mangal “Characterization and analysis of Magneto Rheological Fluid”
4. Manish Kumar Dr. S.K. Mangal  
Dr. A. Manna “An experimental investigation on wire cut EDM of Al/Sic/MMP”
5. Gaurav Mahajan Sanjeev Kumar “Stress analysis of work piece in Ultrasonic Machine”
6. Ishan Kaushal Rajesh Kanda “Measurement of Muscle fatigue with EMG & validation of OCRA index for Indian Population”
7. Kamalpreet Singh Dr. D.R. Prajapati “Improvement in productivity through the application of motion & time study”
8. Gurpreet Singh Dr. Perminderjit Singh “A study on CI Engine with Dual Fuel Diesel & Oxyhydrogen”
9. Randeep Singh Gill Dr. Perminderjit Singh “Experimental investigation of performance & Emissions characteristics of a CI Engine Fuelled with different Blend of Diesel”
10. Puneet Kumar Dr. A.K. Lall “Design mathematical modeling & optimization of micro-channel casting systems”
11. Sahil Dr. A.K. Lall “Design simulation and optimization of various geometrical pattern of micro channel for casting systems
12. Navsumeet Dr. V.P. Singh “Analytical Modeling of Planetary gear and Sensitivity of Natural frequencies”.
13. Kuldeep Singh Dr. P.S. Satsangi “Design & Analysis of a Surgical Tool Manipulator towards Minimally Invasive Robotic Surgery”
14. Deepak Monga Dr. P.S. Satsangi “Numerical Modeling of Bio- Photo thermal Phenomenon using Monte-Carlo Simulation”
15. Abhinav Goyal Dr. Sushant Samir “Analysis of Various Power losses in Diesel Engine”
16. Varun Bhagat Dr. Sushant Samir “Analyzing the Effect of Artificially Varied air flow in Solar air Heaters

## Industrial Materials & Metallurgy Engineering

|     |                  |                   |  |
|-----|------------------|-------------------|--|
| 1.  | Ankush Sharma    | Dr. Uma Batra     | Influence of Hydrolyzation Time of TEP on the Characteristics of Sol Gel Synthesized nano HA and HA Coating on 316L Stainless Steel                                    |
| 2.  | Deepak Dhingra   | Dr. Uma Batra     | Development and characterization of HAP nano powder and HAP coating on 316L stainless steel  |
| 3.  | Akash Verma      | Dr. Uma Batra     | Development and characterized of HA and HA scaffolds through porous sponge technique   |
| 4.  | Harpreet Singh   | Dr. Uma Batra     | Development and Study of Lead-Free Sn-9Zn Solder Alloy   |
| 5.  | Manmeet Singh    | Dr. Uma Batra     | To study the heat treatment of Grade E steel for knuckle coupler application   |
| 6.  | Sushil Kumar     | Dr. Uma Batra     | Hydroxyapatite – TiO <sub>2</sub> Coating on 316L Stainless Steel (SS) using Sol Gel Technique   |
| 7.  | Raminder singh   | Prof. P.Thareja   | Reduction of casting defects with Casting Defects Management System  |
| 8.  | Amarbir Singh    | Prof. P Thareja   | Computer-Aided Gating System Design in Die Casting   |
| 9.  | Arshdeep Singh   | Prof. P Thareja   | To Avoid black Layered Scaling in ACSR Conductors  |
| 10. | Ram Singh        | Prof. P Thareja   | Logistic Related Problem due to stray Corrosion  |
| 11. | Sajjan Kumar     | Prof. P Thareja   | Curtailing the Heat treatment of Al Zn alloy   |
| 12. | Amarbeer Singh   | Prof. Avtar Singh | Competitive manufacturing through successful implementation of TPM   |
| 13. | Paramjit Kaur    | Prof. J D Sharma  | Performance of Copper Graphite and Brass Electrodes on Electrical Discharge Machining of ADI   |
| 14. | Ravinder Gill    | Prof. J D Sharma  | Welding Characteristics of Austempered Ductile Iron  |
| 15. | Shashi Shekhar   | Prof J D Sharma   | Effect of Austempering Temperature and Time on Fracture Toughness of ADI   |
| 16. | Harinder Singh   | Prof J D Sharma   | Wear Mechanism of Austempered Ductile iron at different Loads  |
| 17. | Raj Kumar Aushik | Prof Mamta Sharma | Use of Entropy of formation to estimate heat of fusion of binary eutectic alloys from phase diagram data and faceting behavior of Sn-Zn alloy in soldering application |

|     |                |                   |   |
|-----|----------------|-------------------|---|
| 18. | Ramneek Sharma | Prof Mamta Sharma | Synthesis and characterization of material for HTC fire safety sensor |
| 19. | Mukhmeet Singh | Prof Mamta Sharma | Retrospection and Re-aging of 7075 Aluminum alloy                     |

### **Production Engineering**

|     |                        |                  |   |
|-----|------------------------|------------------|---|
| 1.  | Sarthak Seth           | Dr Parveen Kalra | Finite Element Analysis Of Dental Implants  |
| 2.  | Viveksheel Rajput      | Dr Parveen Kalra | Checklist Evaluation Of Indian Tractors For Human Comfort With The Assessment Of Its Repeatability                        |
| 3.  | Manish Kumar           | Dr Parveen Kalra | Perception Based Evaluation Of Door Handles : A Kansei Approach   |
| 4.  | Vivek Sharma           | Dr Parveen Kalra | Consumer Perception Based Evaluation Of Touch Screen Mobile Phone   |
| 5.  | Ishant Gupta           | Dr Parveen Kalra | Assessment Of Lifting Techniques To Reduce The Risk Of Musculoskeletal Disorders For Manual Lifting By Using Modified Qec |
| 6.  | Ishaan Kaushal         | Dr Parveen Kalra | Measurement of muscle Fatigue using Electromyography and Validation of OCRA Index for Indian Population                   |
| 7.  | Vikesh                 | Dr N M Suri      | To Study The Effect Of Welding Parameters Of Active Tig Welding On Mild Steel   |
| 8.  | Vanraj                 | Dr N M Suri      | To Study The Effect Of Welding Parameters On Weld Bonding Of Mild Steel Sheets  |
| 9.  | Raghuveer Singh        | Dr N M Suri      | To Study The Effect Of Welding Parameters Of Active Tig Welding On Stainless Steel  |
| 10. | Sharad Sharma          | Dr N M Suri      | Evaluation Of The Role Played By Design For Emotions And Product Aesthetics When A Customers Is Buying A Product          |
| 11. | Harpreet Singh         | Dr N M Suri      | Development Of Antimicrobial Packaging Using Copper Nano Particles  |
| 12. | Harpreet Singh Banwait | Dr N M Suri      | Enhancement Of Productivity Of Workers In Small Scale Industry Through Job Design   |
| 13. | Sarvesh                | Dr R M Belokar   | Application of lean manufacturing at assembly line to achieve single piece flow A case study.                             |
| 14. | Sudhir Dalal           | Dr R M Belokar   | Lean manufacturing study in caparo limited using VSM  |



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|-----|--------------------|-----------------|--|
| 15. | Vikas Chaudhary    | Dr R M Belokar  | Process capability study on head light reflector manufactured in unitech machines limited  |
| 16. | Jagbir             | Dr R M Belokar  | Improvement of quality through Six sigma A Case study  |
| 17. | Manjit Dangi       | Dr R M Belokar  | Development of work center selection system for process planning of new developing process using analytical hierarchy process with sensitivity |
| 18. | Arun Kumar         | Dr R M Belokar  | Gendering Bias in Product Decision making  |
| 19. | Shashikantpandey   | Dr Suman Kant   | Study of Process Parameters of BEMRF on EN-31Steel for surface Finish: An experimental Investigation   |
| 20. | Sunil Kumar        | Dr Suman Kant   | Optimization of Mullite-Ni Coating using Slurry Spray Technique  |
| 21. | Arvinder Singh     | Dr Suman Kant   | Experimental Investigation of SPOT welding parameters on 316L Stainless steel  |
| 22. | Maninderjit Singh  | Dr Suman Kant   | Study of Prevalence of Musculoskeletal disorder among VDT workers and predicting values of Pain using ANN model.                               |
| 23. | Manish Dev         | Dr Suman Kant   | Study of effect of mass and type of Back Pack on shoulder and back musculature among school students: Case study, Himachal Pradesh, India      |
| 24. | Sunil Kumar        | Rahul O Vaishya | Experimental Study Of Process Parameters On Electrochemical Aided Abrasive Flow Machining Process (Ecaafm)                                     |
| 25. | Ravi Gupta         | Rahul O Vaishya | An experimental study of Process parameters on Material removal & Surface roughness in Hybrid AFM  |
| 26. | Harinder Pal Singh | Rahul O Vaishya | An experimental study of Process parameters on Material removal & Surface roughness in Hybrid AFM  |
| 27. | Karanvir Singh     | Rahul O Vaishya | A Study of Diamond Tool Wear & Its Effect on Surface Roughness during Precision Machining of Silicon   |
| 28. | Nayhel Sharma      | Rahul O Vaishya | Biomimicry Inspired Motorcycle Helmet Design and Its Finite Element Analysis   |
| 29. | Sahil Mahajan      | Rahul O Vaishya | Role of Packaging Design For Enhancing The Sales Appeal Of Product   |

## M.E. THESIS (2014)

| S. No.                   | Name of Candidate      | Guide                                | Title of Thesis  |
|--------------------------|------------------------|--------------------------------------|--|
| <b>Applied Sciences</b>  |                        |                                      |  |
| 1.                       | Tanvi Gupta            | L N Sharma                           | GIS based Information System – A case study of Panchkula District  |
| <b>Civil Engineering</b> |                        |                                      |  |
| 1.                       | Rajesh Kumar           | Tripta Goyal                         | Futuristic Design of Parking Spaces for Sector 8-C market in Chandigarh  |
| 2.                       | Ranjodh Singh          | Tripta Goyal                         | Study of Heavily Congested Intersections - A case Study of Zirakpur (Punjab)   |
| 3.                       | Aakanksha Sharma       | Geeta Arora                          | Study of Safety, Health and Environmental Management Systems at Mahindra & Mahindra, Swaraj Division, plan I, Mohali.                  |
| 4.                       | Ravneet Kaur           | Geeta Arora                          | Comparative analysis of Absorption of the Dye Malachite Green from Aqueous solution on Neem Leaf Powder and Granular Activated Carbon. |
| 5.                       | Rajat Kango            | M.A. Alam                            | Study on Hydraulic conductivity of porous media using semi empirical approach.   |
| 6.                       | Rishav Sharma          | M.A. Alam                            | Study on effect of grain size distribution and angularity on Hydraulic conductivity of porous media                                    |
| 7.                       | Ravinder               | S. K Verma<br>S.K Singh<br>Amrit Roy | Numerical Modeling Approach for determination of wind loads on high-rise building and analysis its foundation                          |
| 8.                       | Ashwini Kumar<br>Bizla | S. K Verma<br>S.K Singh<br>Amrit Roy | Wind loads on Power Station Chimney and Analysis of its Foundation – A Numerical Modeling Approach                                     |
| 9.                       | Sayed Mohd Arif        | S.K Singh                            | Improvement of local subgrade soil using coal ash and coconut fiber as admixtures  |
| 10.                      | Harsh Chopra           | S.K Singh                            | Effect of aggregate size and aggregate cement ratio on strength and permeability of pervious concrete.                                 |
| 11.                      | Shristi Khosla         | S.K Singh                            | A holistic approach towards energy efficient green buildings through case studies  |
| 12.                      | Arpanjot Singh         | R R Singh                            | High volume fly ash concrete   |

|     |                    |              |   |
|-----|--------------------|--------------|---|
| 13. | Ms Shelly Mittal   | R R Singh    | “Improvement of subgrade soil for road construction by the use of coconut coir fibre and jute fibre”      |
| 14. | Himanshu Bansal    | R R Singh    | “Self compacting concrete using rice husk ash”  |
| 15. | Gurdeep Singh      | R R Singh    | “Study on pedestrian and slow moving traffic in Chandigarh  |
| 16. | Rupinder Kumar     | Umesh Sharma | Comparision Study between Conventional Plastic and Rubber Modified Bituminous Mixes                       |
| 17. | Tejinder Kumar     | Umesh Sharma | Strengthening of Subgrade by using RBI Grade-81: A Case Study   |
| 18. | Amanpreet Kaur     | Siby John    | A comparative study of the traditional and improved cook stoves using biomass                             |
| 19. | Devina Rattan paul | Siby John    | Oil degradation studies using biosurfactant producing microorganisms isolated from oil contaminated sites |
| 20. | Inderpreet Singh   | Siby John    | Hydraulic modelling and analysis of water supply network in Chandigarh for 24/7 water supply              |

### **Computer Science & Engineering**

|    |                 |                              |   |
|----|-----------------|------------------------------|---|
| 1. | Pawan Singh     | Rupali Syal                  | RSA on multicore system   |
| 2. | Sukhbir         | Shailendera Singh            | Promoter Prediction in DNA sequences using machine learning techniques  |
| 3. | Khushdeep Singh | Alka Jindal                  | Design and implementation a notified routing protocol in VANET          |
| 4. | Anshul Thakur   | Shailendra Singh             | Devolpment of automatic articulation error detection tool               |
| 5. | Gunjan          | Sanjeev Sofat                | Detection road conditions using smart phone sensors                     |
| 6. | Vikas Gupta     | Rajesh Bhatia                | Model clone detection in UML diagram                                    |
| 7. | Mamta           | Sanjeev Sofat<br>R.K. Singla | Design of document ranking model for NPTEL (from PU) content repository |
| 8. | Ankur Gupta     | Rajesh Bhatia                | Model Based Clone Detection in Object Oriented Systems.                 |
| 9. | Ishu Singla     | Rajesh Bhatia                | Program Slicing Based clone Detection in Object Oriented Programs       |

|     |                 |                             |  |
|-----|-----------------|-----------------------------|--|
| 10. | Shashank        | Shailendra Singh            | Online Assessment of Responses using sentence similarity in question answer assessment system.                               |
| 11. | Praveen Budhwar | Trilok Chand                | Improved Transport layer protocol for Congestion Control on Wireless Sensor Networks   |
| 12. | Harish Kumar    | Rupali Syal                 | Key generation in RSA Cryptosystem   |
| 13. | Richa           | Ajay Mittal                 | Localization and labeling of spine using regression forests  |
| 14. | Nancy           | Ajay Mittal                 | Automatic brain Ischemic Stroke segmentation in T2 weighted dark fluid MR images   |
| 15. | Parul Sood      | Manvjeet Kaur<br>Ajay Mital | Automatic alignment and enhanced fuzzy vault by reducing the chaff generation time   |
| 16. | Ismeet Kaur     | Manvjeet Kaur<br>Ajay Mital | Fuzzy fingerprint vault using multi-polynomials  |
| 17. | Supriya         | Padmavati                   | Performance analysis and improvement of location aware fault tolerant clustering protocol in Mobile Wireless Sensor Network. |
| 18. | Deepali         | Padmavati                   | Performance analysis, comparison and improvement of static Routing Protocols in Wireless Sensor Network                      |
| 19. | Prashant Kalra  | Poonam Saini                | An Enhancement of Position and Cluster based Routing Protocol in VANETS  |
| 20. | Shivinder Singh | Sandeep Harit               | An attack- based method to detect .... In web applications   |
| 21. | Deshraj         | Shilpa                      | Hybrid approach for detecting code clone by metric and token based comparison  |
| 22. | Rajnish         | Shilpa                      | Token based clone detection using Program Slicing  |
| 23. | Shallu Verma    | Sudesh Rani                 | Secure data dissemination techniques in Vehicular Ad Hoc Networks  |
| 24. | Poonam Kumari   | Sudesh Rani                 | Adaptive AODV and Performance analysis of various routing protocols in Vehicular Ad Hoc Networks                             |
| 25. | Sukhbir         | Shailendra Singh            | Promoter Prediction in DNA Sequences using machine learning Techniques   |

## Computer Science & Engineering (Information Security)

|     |                  |                              |   |
|-----|------------------|------------------------------|---|
| 1.  | Dilpreet Kaur    | Sanjeev Sofat                | Comparative analysis of anonymization techniques  |
| 2.  | Manpreet Kaur    | Sanjeev Sofat                | Bank's Business Continuity Planning and Cyber Fraud Risk Assessment model                                     |
| 3.  | Nidhi Kalra      | Divya Bansal                 | Analyzing driver behavior using Smartphone sensors  |
| 4.  | Ashish Saini     | Divya Bansal                 | Malware analysis for real time network traffic  |
| 5.  | Sumit Gupta      | Divya Bansal                 | Dynamic Classification of webpages using feature based analysis   |
| 6.  | Lovi Dua         | Divya Bansal                 | Malicious behavior detection of mobile based applications   |
| 7.  | Himanshu Goyal   | Rajesh Bhatia                | Software Clone detection using Control Flow Graphs.   |
| 8.  | Jasmeet Kaur     | Trilok Chand                 | Efficient Synchronous MAC Protocol for Wireless Sensor Networks   |
| 9.  | Monika Sharma    | Trilok Chand                 | Reliable Data Transport Protocol for Wireless Sensor Networks   |
| 10. | Bhanu Gupta      | Trilok Chand                 | A Study of Migration to MPLS Network from ISDN for Video Conference (A Case Study of State Bank of India)     |
| 11. | Deepak Bindlish  | Alka Jindal<br>Sanjay Batish | Simulation and analysis of position based routing protocol in VANET   |
| 12. | Prateek Murli    | Alka Jindal<br>Sanjay Batish | Minimizing the effect of black hole attack in VANET using greedy algorithm.                                   |
| 13. | Lofty Sahi       | Padmavati                    | Performance analysis and enhancement of mobility based clustering protocol in mobile wireless sensor network. |
| 14. | Mitali           | Manavjeet Kaur<br>Padmavati  | Multimodal biometric feature level fusion under heterogeneous environment                                     |
| 15. | Sanjida Singhani | Poonam Saini                 | An Efficient Permission-based Mutual Exclusion Algorithm For Mobile ad-hoc Networks                           |
| 16. | Vishav Jyoti     | Poonam Saini                 | Unco-ordinated Checkpointing based Recovery Algorithm for Distributed Transaction Processing                  |

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|-----|----------------|---------------|---|
| 17. | Shaveena Goyal | Sandeep Harit | Design and analysis of optimal path search scheme for intelligent transport System. |
| 18. | Sushil Kumar   | Sudesh Rani   | Cluster-based data dissemination in Vehicular Ad Hoc Networks                       |

### **Electrical Engineering**

- |     |                        |                 |  |
|-----|------------------------|-----------------|--|
| 1.  | Venu Sangwan           | Balwinder Singh | Design & simulation of direct vector control of induction motor using space vector modulation.                                   |
| 2.  | Bubble Preet           | Balwinder Singh | Performance analysis of BLDC motor with PI & Fuzzy logic speed controller.   |
| 3.  | Roohi Kansal           | Balwinder Singh | Load frequency control through neuro fuzzy tie-line power controller in an interconnected system.                                |
| 4.  | Manish Kumar           | Balwinder Singh | Effect on SVC on V- $\delta$ transients of single machine infinite bus system  |
| 5.  | Prabhakar Singh Pundir | S. K. Suman     | Power quality improvement of distribution network using dynamic voltage restorer.  |
| 6.  | Vivek Panwar           | Tarlochan Kaur  | Viability analysis of renewable energy sources in hybrid power system.   |
| 7.  | Vipul Kumar Jha        | Sulata Bhandari | MPPT in photovoltaic system using fuzzy logic controllers & comparative study of different membership function of FLC rule base. |
| 8.  | Shiba Parveen          | Tilak Thakur    | Economic emission dispatch.  |
| 9.  | Surbhi Singh           | Tilak Thakur    | Power quality analysis and management in heavy electric equipment.   |
| 10. | Naveen Nagar           | K.K.Garg        | Fuzzy self adaptive PID controller of Electrical Heating furnace.  |
| 11. | Kamaldeep Rahul        | K.K.Garg        | Speed control of induction motor using fuzzy & PID approach.   |
| 12. | Anshu Parasher         | Jagdish Kumar   | Modeling of Power Electronic Converter using system identification technique.  |
| 13. | Ankur Singh            | Jagdish Kumar   | Power Management and control of wind energy conversion system with a fuzzy logic based MPPT controller.                          |
| 14. | Abhinav                | Rintu Khanna    | Performance analysis comparison of conventional PI control & fuzzy control of separately excited d.c. motor.                     |

|     |                  |                 |   |
|-----|------------------|-----------------|---|
| 15. | Kuldeep Singh    | Rintu Khanna    | Performance analysis of permanent magnet synchronous motor drive system.                            |
| 16. | Ravikant Pandey  | Puneet Arora    | Power quality improving using CHBMLI based statcom.   |
| 17. | Tushar Agarwal   | Puneet Arora    | Allocation of FACT devices to improve voltage profile using GA.                                     |
| 18. | Sandeep Raikwal  | Jaimala Gambhir | Reactive Power Compensation in DFIG based wind farm   |
| 19. | Rohit Kumar      | Loveleen Kaur   | Design and Control of a 3 phase Induction Motor Drive using indirect field oriented control scheme. |
| 20. | Saurabh Kumar    | Loveleen Kaur   | Design, and control of residential off-grid connected PV System.                                    |
| 21. | Ankita Kasaudhan | Raminder Kaur   | Speed control of induction motor drive using V/F control scheme.                                    |
| 22. | Aditi Sharma     | Raminder Kaur   | Voltage sag mitigation using DSTATCOM in induction motor drive.                                     |
| 23. | Neharika Gupta   | Shiv Narayan    | Power System Stabilizer Design Based on Robust Control Techniques using GA, PSO & LMI               |

### **Electronics & Communication Engineering**

|    |                     |              |   |
|----|---------------------|--------------|---|
| 1. | Tanvi               | Neena Gupta  | Modeling and analysis of YDFA for optical networks                                      |
| 2. | Ank Raj             | Neena Gupta  | A novel design of all optical adders and symmetric key cryptography scheme for FSO link |
| 3. | Bhawna Goyal        | Neena Gupta  | Design and analysis of EDFA/EYCDFA hybrid optical amplifier in a WDM system             |
| 4. | Anisha Sihmar       | Neena Gupta  | Performance analysis of non coherent OCDMA system using novel 3-D coding technique      |
| 5. | Aanchal Jain        | Deepak Bagai | Impact of electromagnetic radiations on human health                                    |
| 6. | Amanjot Singh       | Deepak Bagai | Development of Efficient Electronic Waste Disposal System in India                      |
| 7. | Aditya Kumar Gautam | Deepak Bagai | Case Study of Recycling of Electronic Waste in India                                    |
| 8. | Shresth Bhutani     | Deepak Bagai | Case Study of Mobile Phone Health Hazards and Disposal System                           |

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|-----|---------------------|------------------|--|
| 9.  | Abhishek Srivastava | Neelu Jain       | Integrated depth vehicle detection and challan generation using template matching and TTS      |
| 10. | Deepak Kumar        | Neelu Jain       | Scene text detection using stroke width transformer  |
| 11. | Geetanjali          | Neelu Jain       | Dwt based mutli lingual text extraction from complex coloured images                           |
| 12. | Akshay Sharma       | Neelu Jain       | Text extraction from complex coloured images using K-means clustering                          |
| 13. | Karan Sood          | Nagendra Sah     | Analysis of QOS Based routing protocol   |
| 14. | Pahraj              | Divya            | Design and performance analysis of WDM-RoF-PON using OFDM                                      |
| 15. | Prabjot Singh       | Divya            | Sliding norm transform based PAPR reduction technique for optical OFDM system                  |
| 16. | Shashikant          | Divya            | Adaptive QAM modulation technique for OFDM based Wireless comm.. system                        |
| 17. | Adhar Vashishth     | Bipin Kaushal    | Automated technique for tooth caries detection and prescription report generation              |
| 18. | Shefali Sharma      | Bipan Kaushal    | Power consumption reduction in digital electronics circuits using multibit flip flop technique |
| 19. | Priyan Karan Tank   | Bipan Kaushal    | A machine vision system for inspecting Agmark standards of rice grading                        |
| 20. | Priyanka Kapoor     | Amita Soni       | Performance analysis of code aided MMSE receiver over Rayleigh fading channel                  |
| 21. | Navgeet Singh       | Amita Soni       | Performance analysis of WiMax in multipath fading environment                                  |
| 22. | Pallavi             | Amita Soni       | Performance analysis of channel capacity of MIMO system with transceiver impairment            |
| 23. | Arun Kumar Mittal   | Sukhwinder Singh | A new Algorithm for Edge Detection of Medical Images   |
| 24. | Rohit Kumar         | Sukhwinder Singh | Development of a New Technique to Compress the 2D images                                       |
| 25. | Shubham Singla      | Sukhwinder Singh | Modified PCA Technique to Recognize the Facial Expression                                      |



## Electronics VLSI

|     |                            |                       |  |
|-----|----------------------------|-----------------------|--|
| 1.  | Harsimranjit Kaur          | Neelam Rup<br>Prakash | Novel Hybrid Factorial Circuit Design Using Vedic Mathematics  |
| 2.  | Nidhi Pokhriyal            | Neelam Rup<br>Prakash | Compressor based Vedic Multiplier Design Using GDI Technique   |
| 3.  | Swati Joshi                | Neelam Rup<br>Prakash | An efficient Multimode Multiplier Design   |
| 4.  | Ashima Sood                | Nagendra Sah          | Performance (speed) optimization of viterbi decoder  |
| 5.  | Shradha Shukla             | Nagendra Sah          | A flelxiible communication system by integrating FPGA with SDR   |
| 6.  | Shubham Singh              | Nagendra Sah          | Area & energy efficient VLSI Architecture for LDPC decoder   |
| 7.  | Sanjay Singh<br>Sarooh     | Jasbir Kaur           | High speed & low latency carry select adder (CSLA) using beaumont smith adder                            |
| 8.  | Pawan Kumar                | Jasbir Kaur           | Design of 16 bit modified knowle parallel prefix adder   |
| 9.  | Anant Shekhar<br>Vashistha | Jasbir Kaur           | VLSI implementation of multi symbol encapsulated OFDM transceiver  |
| 10. | Nitin Goyal                | Jasbir Kaur           | Performance analysis of a low offset and high speed dynamic voltage sense amplifier                      |
| 11. | Kulbir Singh               | Rita Mahajan          | Cyclostationary based detection method of spectrum sensing for cognitive radio                           |
| 12. | Pawan                      | Rita Mahajan          | Performance analysis of energy detection based spectrum sensing method in cognitive radio                |
| 13. | Nikhil Arora               | Rita Mahajan          | FPGA implementation of cooperative spectrum sensing using hard decision fusion scheme in cognitive radio |
| 14. | Sandeep Sangwan            | Jyoti Kedia           | An improved feed through logic design  |
| 15. | Varinder Singh             | Jyoti Kedia           | Design of floating point adder and subtractor  |
| 16. | Ankul Chaudhary            | Jyoti Kedia           | Design and analysis of combinational circuits using dynamic current mode logic                           |

## Mechanical Engineering

1. Vinod Mishra Alakesh Manna Experimental Investigation On Developed Setup During Generation Of Free Form Surface And Nano Finish Of Steel
2. Mahesh Kumar V.P. Singh Structural Analysis And Identification Of Isomorphisms Of Six, Eight, Nine And Ten Links Kinematic Chains Using Graph Theory
3. Ankit Parmar Perminderjit Singh To Study The Engine Performance & Emission Characteristics Of Engine By Using Various Ethanol Blends Of Petrol (E0,E5,E10,E15,E20) At Different Compression Ratios On Variable Compression Engine
4. Ankur Sharma Sushant Samir Heat Transfer Augmentation In A Heat Exchanger Using Different Baffle Combinations Through Cfd Studies
5. Anurag Dhiman V.P. Singh Numerical Integration Methods For Vibration Response Of Multi Degree Freedom System
6. Balam Sharma Sanjeev Kumar Influence Of Abrasive Particles Used In Dielectric On Edm Process
7. Baljeet Singh Sanjeev Kumar Finite Element Modeling And Analysis Of Powder-Mixed Edm Thermal Stresses
8. Dikshant Sachdeva Alakesh Manna An Investigation During Micro Drilling Of E-Glass Fibre Composite On Fabricated Laser Machining Setup
9. Dinesh Sushant Samir Heat Transfer Optimization Of Shell And Tube Heat Exchanger Through Cfd Studies
10. Harsh Goyal P.S. Satsangi To Study The Effects Of Variable Electro Magnetic Field On CaCO<sub>3</sub> Mitigation
11. Harwinder Singh P. S. Satsangi Comparison Of Different Abrasive Powders By Their Life And Productivity
12. Jagjeet Singh V.P. Singh Application Of Numerical Methods For Vibration Response Of Multi Degree Freedom System'
13. Khushpreet Singh Arun K Lall A.N. Dubey Design And Analysis Of Solar Energy Storage Unit Using Phase Change Material
14. Kushal Kamboj P. S. Satsangi Gurjeet Singh Heat Transfer Enhancement In Pipe In Pipe Heat Exchanger Using Mechanical Turbulators
15. Lalit Kumar D.R. Prajapati To Study The Process Capability And Setting The Spc In A Manufacturing Industry

|     |                  |   |   |
|-----|------------------|---|---|
| 16. | Akash            | D.R. Prajapati                          | An Exploratory Study On Employees Perceived Quality Of Working Life In Foundry Industry                   |
| 17. | Priyaansh Prasad | D.R. Prajapati                          | Analysis Of Rejection Level Of Products Of An Automotive Industry Using Dmaic Approach                    |
| 18. | Aaditi Sinha     | D.R. Prajapati                          | A Comparative Study Of Scrum And Extreme Programming For Software Quality Assurance In Startup Industries |
| 19. | Navdeep Kaur     | D.R. Prajapati                          | Process Capability Study Of Waste Water Treatment Plant   |
| 20. | Lokesh Bhardwaj  | Alakesh Manna<br>Kamal Kumar            | An Experimental Investigation And Optimization In Fabrication of Aluminum Alloy Using Stir Casting Method |
| 21. | Richa Verma      | Arun K Lall                             | Cfd Analysis Of Dome  |
| 22. | Nirbhai Singh    | S. K. Soni                              | Binding Enhancement Strategies For Micro Fluidic Biosensors   |
| 23. | Pardeep Kumar    | Perminder Jit<br>Singh & Tejbir<br>Kaur | Optimization Design Of Semi Active Suspension System For A Terrian Vehicle                                |
| 24. | Puneet Dhiman    | S.K. Mangal<br>Naveen Garg              | Application Of Ann In Traffic Noise Modeling And Predication  |
| 25. | Pushpinder Singh | V.P. Singh<br>Ankit Yadav               | Experimental Analysis Of Effects Of External Bearing On Eigen Value Of Planetary Gear Box                 |
| 26. | Raveesh Pratap   | Alakesh Manna                           | Computation of Natural Frequencies Of Cantilever Blade By Variational Method                              |
| 27. | Sahib Singh      | Arun K Lall                             | Ferro Magnetic Fluids for Cooling   |
| 28. | Sukhvir Singh    | Perminderjit<br>Singh                   | Development of Performance Measures For The Implementation of Total Quality Management In India Industry  |
| 29. | Varun Bhatti     | Sarbjit Singh                           | Some Investigation on Friction Stir Spot Welding Of Aluminum 6061- Alloy                                  |

### **Industrial Materials & Metallurgy Engineering**

|    |                 |                              |   |
|----|-----------------|------------------------------|---|
| 1. | Amanpreet Singh | Avtar Singh                  | Defect abatement in brass casting.  |
| 2. | Arinder Pal     | Avtar Singh<br>Sanjeet Kumar | Hot corrosion of welded joint in AISI 304 steel.                                |
| 3. | Balraj Singh    | Mamta Sharma                 | Effect of Micro Arc Oxidation on Corrosion properties of Aluminium alloy AA2024 |

|     |                  |                              |  |
|-----|------------------|------------------------------|--|
| 4.  | Bir Bahadur      | Uma Batra                    | Explosive welding using low V.O.D Explosive.   |
| 5.  | Gagandeep Singh  | J D Sharma                   | To relate grades of ADI with machining parameters.   |
| 6.  | GauravGarg       | Uma Batra                    | Development of non-toxic lead free solder for electronic industry  |
| 7.  | Ishwinder Singh  | Avtar Singh                  | Optimization of Friction stir welding parameters for dissimilar Al joints and study of their effect on mechanical properties |
| 8.  | Jasvir Singh     | Mamta Sharma                 | solidification study of melt cast explosives and cast quality improvement  |
| 9.  | Maninder Singh   | Uma Batra                    | Development of 3rd generation advanced high strength steel and simulation approach.  |
| 10. | Mohit Srivastava | Mamta Sharma                 | Ceramic-metal and metal-metal high vacuum brazing process optimization by weight calculation and characterization of joints. |
| 11. | Navdeep Singh    | Uma Batra                    | Modeling and simulation of mechanical and physical properties of 316 L SS  |
| 12. | Neha Sharma      | J D Sharma                   | Study the Bainite nucleation and growth in ADI   |
| 13. | Prince Setia     | J D Sharma                   | Wear of ADI under different load temperature.  |
| 14. | Raghav Gupta     | Sanjeet Kumar                | Hot corrosion of welded joint in SS316L weldments.   |
| 15. | Rakesh Kumar     | J D Sharma                   | Mechanical analysis of bucket tooth of different grades of ADI and to check the possibility of SIT in the material.          |
| 16. | Ravijit Singh    | J D Sharma<br>Shalom Akhai   | A comparative analysis for adaption of a simplified welding technique for welding EN-19 steel grade hammer blow.             |
| 17. | Satwant Singh    | Uma Batra<br>Shalom Akhai    | Reclaiming Digester screw by Hard facing   |
| 18. | Sharanjit Singh  | Mamta Sharma                 | Swarf forging of Alloy steel   |
| 19. | Virat Saroop     | Avtar Singh<br>Sanjeet Kumar | Erosion and corrosion of SS304 AND SS316 in actual boiler environment  |

#### **Production Engineering (Production and Industrial Engineering)**

|    |                 |               |   |
|----|-----------------|---------------|---|
| 1. | Ramandeep Singh | Parveen Kalra | Application of lean manufacturing tools in an auto industry               |
| 2. | Ashish Chopra   | Parveen Kalra | Application of value stream mapping in electronics manufacturing industry |

|     |                   |                                  |   |
|-----|-------------------|----------------------------------|---|
| 3.  | Mithun Goyal      | Parveen Kalra                    | Design of customised bone plates for tumour patients  |
| 4.  | Rahul Arora       | Parveen Kalra                    | 3D model generation of human liver  |
| 5.  | Aadhar Gupta      | Suman Kant                       | Development of quality assurance systems for a machine tool industry (tractor division)   |
| 6.  | Gagandeep Singh   | Suman Kant                       | Quality function deployment   |
| 7.  | Sandeep Kumar     | N. M. Suri<br>Suman Kant         | Characterization study of multiple alumina based environment barrier coating by slurry spray technique using TiO <sub>2</sub> as sintering additive |
| 8.  | Mandeep Gulia     | N. M. Suri<br>Suman Kant         | Tribological behaviour of Al-6063/Red mud metal matrix composite  |
| 9.  | Pankaj            | Rahul O Vaishya                  | Effect of media conductivity on Hy.AFM  |
| 10. | Gurinder Singh    | Rahul O Vaishya                  | Experimental investigation on surface roughness with hybrid abrasive flow machining   |
| 11. | Gaurav Kumar      | Rahul O Vaishya<br>C.S. Jawalkar | Six sigma- An innovative approach to improve sigma level. A case study in a brick company   |
| 12. | Shankey Shairawat | Rahul O Vaishya                  | Optimization of berth allocation and quick crane at (Docyard) :- (A case study)   |
| 13. | Amrinder Singh    | Rahul O Vaishya<br>C.S. Jawalkar | Experimental investigation of wire ECMM using Zinc coated brass wire  |
| 14. | Jugpreet Singh    | R.M. Belokar                     | Check the feasibility of injection moulding process for manufacturing of polymer stents   |
| 15. | Sandeep Saini     | R.M. Belokar                     | Application of lean & quality improvement tool in printing industry   |
| 16. | Charu Gupta       | R.M. Belokar                     | Application of total quality management in Indian airlines  |
| 17. | Anshul Jain       | C.S. Jawalkar                    | Supply chain & other issues Indian railway  |
| 18. | Arun Rehal        | Jagjit Singh                     | Development of cost effective fluxes for submerged arc welding  |

**(Industrial Design)**

|    |               |  |   |
|----|---------------|--|---|
| 1. | Rohit Chander | Parveen Kalra                            | FEA of 2- wheeler locks   |
| 2. | Shagun Sharma | Parveen Kalra                            | FEA of dental implants  |
| 3. | Parteek Dutta | Parveen Kalra<br>& Neelam Rup<br>Parkash | Measurement of physiological parameters of human body by using mobile |

|     |                  |                                    |   |
|-----|------------------|------------------------------------|---|
| 4.  | Simranjeet Singh | Parveen Kalra & Jagjit Singh       | Ergonomics evaluation of ingress of bus drivers   |
| 5.  | Mandeep Saini    | Neelam Roop Parkash & Jagjit Singh | Classification of wheat grain varieties using image processing  |
| 6.  | Jaspinder Singh  | Jagjit Singh                       | CFD analysis of Drag reduction of automobiles   |
| 7.  | Aman Rana        | Suman Kant                         | Evaluation of aesthetics parameters of Indian cars of moderate cost   |
| 8.  | Sahil Diwedi     | Rahul O Vaishya                    | Analysis of adjustable passenger aircraft seats   |
| 9.  | Maheshwar        | C.S.Jawalkar                       | Ergonomics based design and outway of elementary school furniture   |
| 10. | Ankit Jhinkwan   | Jaswinder Singh                    | Study of Alto K10 car seat design using finite element analysis and evaluation ergonomics evaluation techniques |
| 11. | Tarwinder Singh  | Jaswinder Singh                    | Study of ergonomics evaluation of industrial task in Indian electronic industries                               |
| 12. | Gurjinder Singh  | Jaswinder Singh                    | Study of free fall drop test of mobile phone using finite element analysis                                      |

## **2. INSTITUTIONAL DEVELOPMENT PROPOSAL (IDP)**

### **2.1 Give the executive summary of the IDP**

PEC University of Technology is one of the leading engineering and technology Institutions in India with a standing of more than 90 years. The institute is running 8 UG and 14 PG programmes and has over 2486 students spread over 146 acres of campus. It is proud to have established as a high ranking engineering institution in India in terms of placements along with many other achievements. PEC University of Technology is striving to be at the forefront of technical education and research. Therefore, it has envisaged enhancing the quality of PG education and increasing the enrolment of students in various Postgraduate programmes. With this objective, the institute has decided of participating in Sub Component 1.2 of TEQIP (Phase - II) titled “Scaling up Postgraduate Education and Demand Driven Research & Development and Innovation”

#### **This proposal includes following activities:**

- (i) Infrastructure improvement for PG Technical Education through-
  - (a) Creation of central facility to upgrade the research capabilities with the state of the art instruments.
  - (b) Modernization /digitization of library. Creation of Digital Library.
  - (c) ICT enabled digital classrooms/ seminar rooms.
- (ii) Providing teaching and research assistantships to achieve significant increase enrolment in ME and PhD programmes.
- (iii) Enhancement of R&D and institutional consultancy activities.
- (iv) Faculty and staff development.
- (v) Enhancing Industry – Institution interaction.
- (vi) Enhancement of management capacity for better governance.
- (vii) Academic support to weak students in terms of improvement in communication skills and Technical Skills.

#### **During the period 2015 -2016, the following will be enhanced:**

- (i) Revenue from R&D and Consulting by 30%
- (ii) Revenue from IRG by 15%
- (iii) Research publications in national and international refereed journals by 50%
- (iv) Placement of ME students by 100%
- (v) Collaborations with industry by 50%
- (vi) Training of 50 faculty, 25 technical staff and 25 administrative staff

**2.2 Provide the details (in terms of methodology used, analysis carried out of the data and information collected and inferences derived with respect to strengths, weaknesses, opportunities and threats) of SWOT analysis.**

## **SWOT ANALYSIS**

SWOT Analysis of the PEC University of Technology, Chandigarh has been conducted with an aim to make a comprehensive analysis of its strengths, weaknesses, opportunities and threats so as to enhance its scope of activities especially in the area of post graduate and doctoral education, research and development and meeting the challenges of future.

## **OBJECTIVE**

The broad objective has been to identify thrust areas for preparing a Strategic Plan for Scaling up of Post Graduate Programmes and Demand Driven R&D and Innovation in the University.

## **METHODOLOGY**

Exploratory research design has been chosen to carry out this research project of SWOT analysis of PEC University of Technology, Chandigarh. It was decided to adopt case study approach to accomplish research objectives. The case study approach envisages a comprehensive and exhaustive data collection from the study unit. While doing this, a detailed study of the philosophy, vision, mission, mandate, infrastructure, curriculum, teaching-learning process, examination system, student placement, management & HRD policies etc. has been conducted. The strategy has been to actively involve all stakeholders comprising Director and other officials, faculty and staff, students, alumni, industry and community in visualizing the future of the institution, its present status and the actions to be taken to achieve the goals. The sample for the project comprised 123 Faculty, 137 administrative and technical staff, 1797 students, 20 alumni/industry/ community representatives. The research process for the project comprised of need identification and scope of work; orientation of project coordinator(s), Brainstorming session with HOD's and senior faculty; getting information from teachers, students, alumni and industry/community on four validated questionnaires; interviewing project coordinators, concerned officials and students; analysis of information and validation of report. The final report has been prepared in consultation with Director and coordinator(s) from the University.

## **STRENGTH**

### **Good Reputation**

- Heritage of about 95 years as a well reputed engineering institution
- High-ranking (top 20) amongst the top technical institutions in the country
- NBA Accreditation of programmes.
- Strong alumni base
- A preferential institute amongst good students from India and abroad.
- ME admissions through GATE



## **Very Good Infrastructure**

- 146 acres Campus of located in the heart of City Beautiful, The Chandigarh providing it a demographic and locational advantage.
- All facilities for the holistic development of students.
- Buildings, well equipped laboratories.
- Networking / wi-fi connectivity for all students and faculty.
- Equipped library, spacious hostels, guest house and faculty/ staff houses, seminar halls and auditorium
- Sports and recreational facilities for curricular and extracurricular activities

## **Programmes, Curriculum and Teaching Learning Process**

- Demand driven Undergraduate, Post Graduate and Ph.D programmes in engineering, sciences and management.
- Choice based credit system based Academic Programme.
- Highly relevant, feasible, flexible and up-to-date curriculum developed and implemented.
- Design approach, project and practice oriented teaching learning process.
- Highly flexible, open, efficient and learner oriented assessment and evaluation system.

## **Human Resources and Management**

- Qualified and Competent faculty with individuals having Ph.D. in engineering and technology, applied sciences & humanities.
- Motivated and dedicated faculty with a blend of high experience and young and energetic dynamism.
- High level of student involvement in different projects, programmes and process of the institute.
- Student chapters of many professional societies.
- Alumni well placed, knowledgeable and supportive.
- Transparent, efficient and effective management system.
- Clubs, NSS, NCC, Sports.
- Enhance on Co-Curricular Activities.

## **UG Programmes**

- High quality students in UG programmes.
- Almost 100 % placement.
- Significant number of overseas students.
- NBA Accreditation.

## **WEAKNESSES**

### **Industry Institute and Institute Community Interaction**

- Although the institute has developed linkages with industries and resource organizations, there is still ample scope to do the same for further enhancing the number of projects and programmes being undertaken.
- Less number of continuing education programmes for the manpower from industry.
- Less number of community development projects or Industry oriented projects programmes and transfer of appropriate technology and entrepreneurship development.
- Less sponsored research projects.

## **ME Programmes**

- Quality of PG students not as high as students of UG programmes.
- Placement 50% for ME students.

## **R&D Culture**

- Comparatively weak research and development culture.
- Insufficient collaboration and networking with R&D laboratories and industrial R&D houses.
- Lack of high end and high technology labs and infrastructure. Less number of R&D reports and publications.

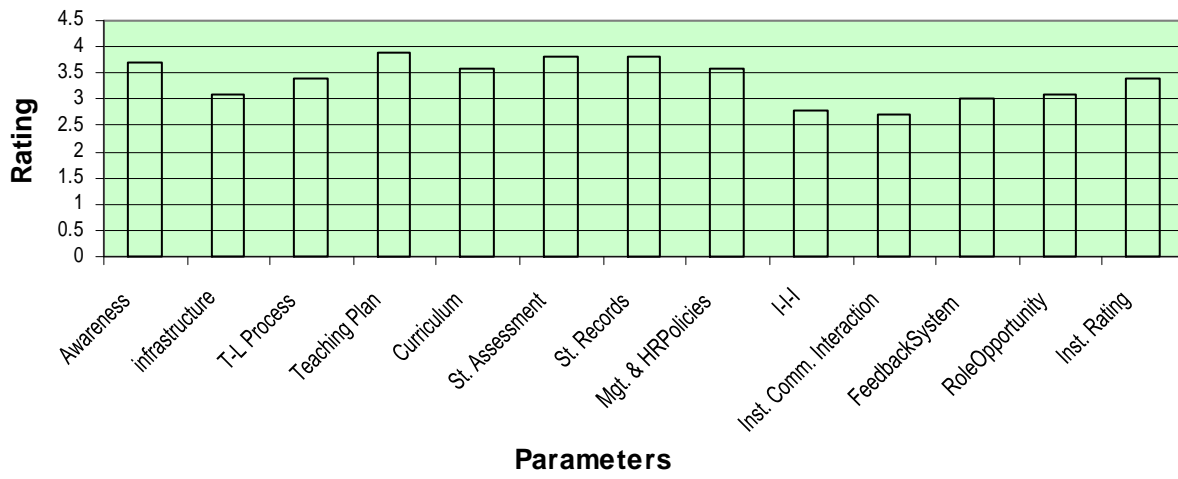
## **OPPORTUNITIES**

- Good infrastructure and expertise to initiate new programmes at master's and doctorate levels.
- High scope for R&D and consultancy projects.
- Collaboration and networking with industries, industrial associations, R&D laboratories and national and international technical institutions and universities.
- Centre of excellence in new and interdisciplinary areas of engineering and technology.
- Starting continuing education programmes for Industry employees and society in general.
- ICT enabled modernization of library / Classrooms etc.
- Enhancement of quality of education through training and knowledge up-gradation of faculty and staff.
- Improvement in operational efficiency of academic and administrative systems through enrichment programmes for senior management officials.
- Accreditation of Deemed University by NAAC and PG programmes by NBA.
- Innovative practices to improve performance of weak students/under privileged students.
- Alumni Connect.

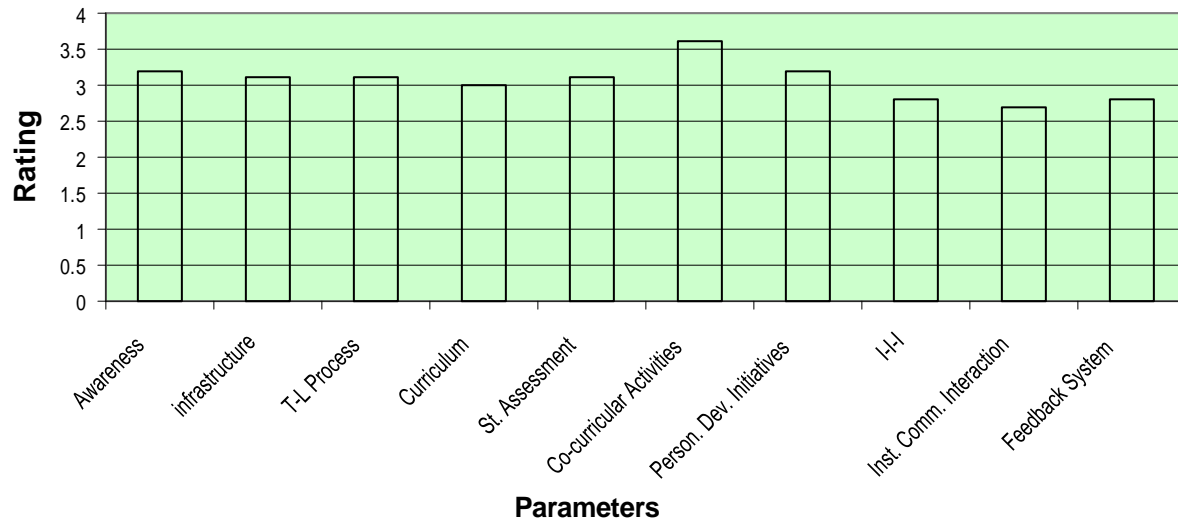
## **THREATS**

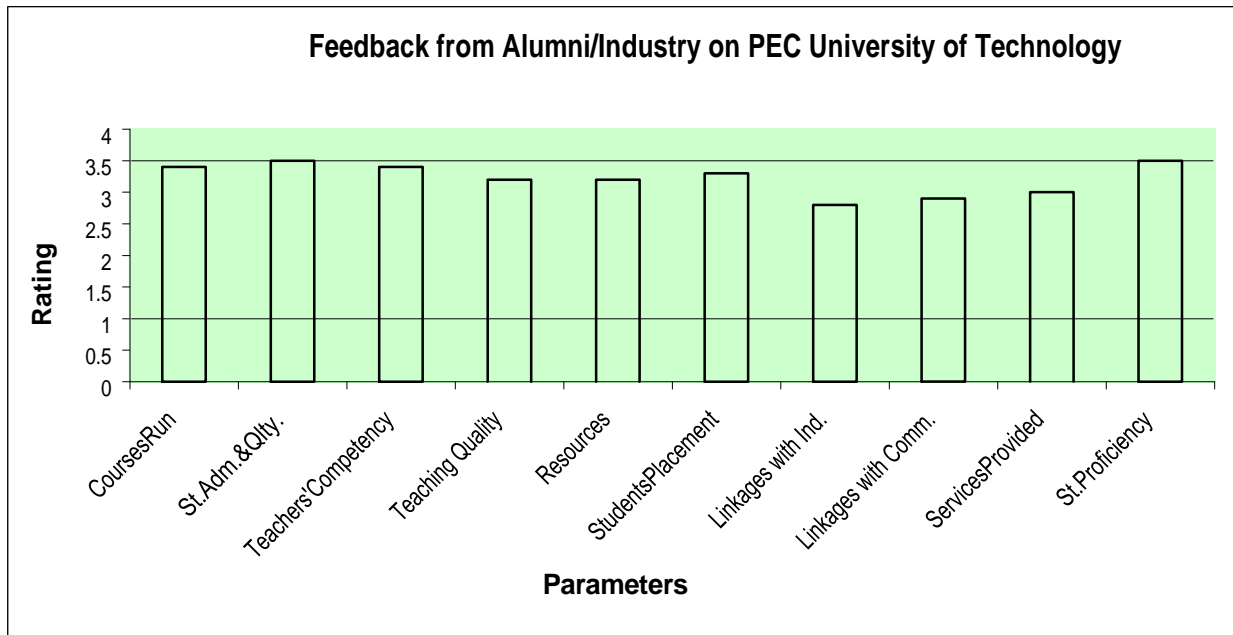
- Mushrooming growth of engineering institutions.
- Establishment of collaborative or independent campuses by foreign universities.
- Rigid government rules and regulations.
- Opening of many engineering institute in Aerospace engineering.
- Less grant-in-aid from UT Administration.
- Poor Infrastructure facility in comparison to private universities in the surrounding regions.

**Teacher's Feedback on PEC University of Technology**



**Students Feedback on PEC University of Technology**





### 2.2.2 Based on SWOT analysis, provide the strategic plan developed of institutional development

PEC University of technology is an institute of about 95 years standing committed to providing diversified and high quality technical education. Although the institute is running 14 Postgraduate Programmes (03 programmes added under the TEQIP-II from 2010-14), the quality of all of these programmes is not as good as its undergraduate programmes. It is envisaged to strengthen its postgraduate technical education that can lead to innovative Master's and Ph Ds, and effective employability. The institute considers postgraduate education and the research activity to be crucial for fulfillment of its mission.

Therefore, PEC plans to take lead in providing good quality educational services and research and development results that can support regional and national development, and contribute to innovation. Under the TEQIP project, institute has planned

- Qualitative improvement of ME and PhD programmes
- Establishment of Central Research Facilities and addition of new research facilities.
- Up gradation of existing PG labs
- Improvement of learning resources and modernization of classrooms/ Seminar halls using ICT based systems.
- Improvement of competence of faculty & staff
- Improvement of institute's systems.

**2.2.3 Show how the results of SWOT analysis are linked to the key activities proposed in the proposal**

| <b>S. No</b> | <b>Gaps Identified by SWOT Analysis</b>  | <b>Key activities in proposal</b>   |
|--------------|--|---|
| 1.           | Need for strengthening of PG education   | Infrastructure improvement for PG technical education through:<br>Up gradation of existing PG Labs, Library modernization and ICT based classrooms/Seminar Halls. |
| 2.           | Quality research activity  | Providing teaching and research assistantships to increase enrolment in existing and new ME programmes in Engineering disciplines & existing PhD Program.         |
| 3.           | Need to develop Research and development culture                               | Enhancement of R&D and institutional consultancy activities by establishing central research facility.  |
| 4.           | Need to enhance faculty and staff competence                                   | Faculty   |
| 5.           | Need for enhancing linkages with industry                                      | Enhancement of Industry – Institute interaction   |
| 6.           | Improving the operational efficiency of academic & administrative systems      | Institutional Management Capacity enhancement   |
| 7.           | Need for accreditation of ME Programmes  | Implementation of institutional reforms   |
| 8            | Innovative practices to improve performance of weak students & underprivileged | Academic support for weak students  |
| 9.           | Incremental Operating Cost   | Operation of TEQIP - II   |

**2.3 State the specific objectives and expected results of your proposal in terms of “Institutional strengthening and improvements in the employability and learning outcomes of graduates”. These objectives should be linked to the SWOT analysis**

| S .<br>No | Gaps Identified by SWOT Analysis       | Key Activities   | Specific Objective  | Expected Results  |
|-----------|--|--|---|---|
| 1.        | Need for strengthening of PG education | <p>Infrastructure improvement for PG technical education through:</p> <p>Strengthening existing PG Labs and Developing new Central Research Facility*</p> <p>Library modernization</p> | <p>To enhance the research and development capabilities</p> <p>To provide access of learning resources to students and staff through modern and well equipped library</p> | <p>Enhanced research output in terms of publications / Industrial orientated consultancy projects.</p> <p>Digital Library</p> |

|    |  |   |  |   |
|----|--|---|--|---|
| 2. | Quality Research Activity                        | Providing teaching and research assistantships to increase enrolment in existing and new ME programmes in Engineering disciplines & existing PhD Program. | To attract better quality students in ME & PhD programmes by offering assistantship to enhance enrolment at ME and PhD levels  | 30 ME assistantships for 2 years  |
|    |  |   |  | 30 PhD assistantships<br>For 3 years.   |
| 3. | Need to develop Research and development culture | Enhancement of R&D and institutional consultancy activities   | <ul style="list-style-type: none"> <li>- Securing increased Sponsored Projects and consultancy assignments</li> <li>- Collaboration with industry and Research organizations</li> <li>- Increased quality &amp; no. of publications in peer reviewed journals</li> <li>- Industry linked research projects by ME students</li> </ul> | Raising the revenue from sponsored projects & consultancy from present value of Rs 100 lakhs to 150 lakhs |
|    |  |   |  | Enhanced publication quality  |
|    |  |   |  | Enhanced quality of students interaction with industry  |
|    |  |   |  | Research funding for young faculty of the institute   |

|    |  |   |  |  |
|----|--|---|--|--|
| 4. | Need to enhance faculty and staff competence | Faculty and staff development (including faculty qualification upgradation, pedagogical training, and organizing /participation of faculty in workshops, seminars and conferences) for improved competence based on TNA | <p>Holistic development of faculty and staff for enhancing their efficiency and effectiveness for fulfilling the requirement of various projects under Institutional Development</p> <p>Sending faculty to short term courses, conferences, workshops, industries in India and abroad for Upgradation of qualification, acquiring knowledge in emerging areas and industrial processes &amp; improving teaching competence</p> <p>Sending Technical staff for acquiring technical knowledge</p> <p>Sending Administrative staff for acquiring office work and automation</p> | <p>20 faculty to attend National Conference</p> <p>5 faculty to attend International Conference/Symposia/Workshop/ STC</p> <p>10 Faculty to attend National Short term course</p> <p>5 Senior Faculty to attend International conference/symposia/seminar/short term course</p> <p>10 Faculty to be send for industry based knowledge enhancement</p> <p>10 Technical Staff to be sent for improvement of technical competence</p> <p>10 Administrative Staff to be sent for improvement of office/ purchase procedure</p> |
| 5. | Need for enhancing linkages with industry    | Enhancement of Industry – Institute interaction   | Industrial exposure and knowledge updation of faculty & staff  | One Curriculum development workshop per deptt. in collaboration with industry  |



|    |   |  |  |  |
|----|---|--|--|--|
|    |   |  | <p>Industry oriented projects for PG and PhD students</p> <p>Signing MoUs for joint activities with Industry</p> | <p>Campus placement enhancement from 20% to 50% for ME students</p> <p>Industry leaders summit for students – one every alternate year</p> <p>Alumni industrialist lectures / Mentorship to students</p> <p>Increased support for industrial tours</p> |
| 6. | Improving the operational efficiency of academic & administrative systems | Institutional Management<br>Capacity enhancement | Enrichment programmes for senior management officials of the institute   | International or National Enrichment Programmes to be attended by senior officials including - Chairman BOG & Vice Chairman BOG, Members of Board from Chandigarh Administration, Director, Deputy Director, Registrar, Deans, HoDs.                   |
| 7. | Need for accreditation of ME Programmes                                   | Implementation of institutional reforms          | To deliver ME Program meeting accreditation standards  | <ul style="list-style-type: none"> <li>- Short Term Courses/ Lectures</li> <li>- Curriculum development workshop as at S. No 5)</li> </ul>   |

|    |  |                                    |                                       |   |
|----|--|------------------------------------|---------------------------------------|---|
| 8  | Innovative practices to improve performance of weak students & underprivileged | Academic support for weak students | To Improve pass rate & employability  | - Communication skill Courses   |
|    |  |                                    |                                       | - Summer Courses to UG & PG weak students   |
|    |  |                                    |                                       | - Personality Development Programmes/Workshops  |
| 9. |  | Incremental Operating Cost         | Continuation of execution of TEQIP II | <ul style="list-style-type: none"> <li>- Operational activities of TEQIP-II (Manpower/equipment/travel /outsourcing etc.)</li> <li>- Participation &amp; organizing conference/seminars/workshop</li> </ul> |

## **2.4 Provide an action plan for scaling-up enrollment into Master's and Doctoral programmes**

The number of ME and PhD students provided assistance ship under TEQIP – II is only 60 (30 M.E and 30 PhD). With additional funding these students can be continue to be supported under TEQIP – II. Better quality students can be attracted with better academic results, good learning resources, quality teaching and research environment and better assistantships. Therefore, the action plan comprises: Investments in faculty and staff development by training them in India and abroad through conferences/seminars/short term courses/ symposia etc.

- Procurements for setting up new Central research facility proposed and up gradation of existing labs.
- Modernization of library and ICT based classrooms and seminar halls.
- Improving relevance of curricula.
- Enhancing interaction with industry.
- Improving competence of faculty and staff.

The time lines for these activities are given below:

## 2.4 Time line for scaling –up enrollment into Masters and Doctoral programmes

| S<br>·<br>N<br>o | Activities   | Project Months |     |     |       |       |       |       |       |
|------------------|--|----------------|-----|-----|-------|-------|-------|-------|-------|
|                  |  | 1-3            | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-21 | 22-24 |
| 1                | Infrastructure improvements for PG Technical Education through   |                |     |     |       |       |       |       |       |
|                  | (a) Establishment of new central research facility   |                |     |     |       |       |       |       |       |
|                  | (b) Upgradation of existing PG Labs  |                |     |     |       |       |       |       |       |
|                  | (c) Modernization and strengthening of libraries and increasing access to knowledge resources and ICT based classrooms |                |     |     |       |       |       |       |       |
| 2                | Providing Teaching and Research Assistantships to achieve significant increase enrolment in ME and PhD programme.      |                |     |     |       |       |       |       |       |
| 3                | Enhancement of R&D and institutional consultancy activities  |                |     |     |       |       |       |       |       |
| 4                | Faculty and Staff development  |                |     |     |       |       |       |       |       |
| 5                | Enhanced interaction with Industry   |                |     |     |       |       |       |       |       |
| 6                | Enhancement of Management Capacity for better governance.  |                |     |     |       |       |       |       |       |
| 7                | Implementation of institutional reforms  |                |     |     |       |       |       |       |       |
| 8                | Academic support for weak students   |                |     |     |       |       |       |       |       |
| 9                | Incremental Operating Cost   |                |     |     |       |       |       |       |       |



**2.4 (b)**

| Activity   | Project Months |     |     |       |       |       |       |       |
|--|----------------|-----|-----|-------|-------|-------|-------|-------|
|  | 1-3            | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-21 | 22-24 |
| <b>Action Plan for Scaling up PhD enrolment</b>              |                |     |     |       |       |       |       |       |
| - Advertisement  |                | ■   |     |       |       |       |       |       |
| - Online registration and conducting test for Ph.D admission |                |     | ■   |       |       | ■     | ■     |       |
| - PhD enrolment  | ■              |     | ■   |       |       |       | ■     | ■     |
| - Assistantship Distribution                                 |                |     |     |       | ■     |       |       |       |
| - Biannual Evaluation of their research work                 |                |     |     |       |       |       | ■     |       |

## **2.5 Provide an action plan for improving collaboration with Industry.**

Interaction of academia and industry is a two-party endeavor, but highly dependent on academic interest and pro-activity. Although institute has more than 15 MOU's signed with various reputed Industries, research organizations, foreign Institutions with varied scope of activities such as training of our students, research activities, innovation projects etc. With limited funds available for this purpose, only limited number of students from such collaborations and that too at UG level are benefitted from these collaborations. It is felt that the benefit can be extended to more number of students at UG and PG levels by organizing Industry leader's summit and workshop on innovations, membership through entrepreneurship cell for students, inviting alumni industrialists for expert lecture and increasing support for industrial tours of the students to industry. Further, curriculum workshops will be organized by each department inviting Industrial personnel to improve the relevance of present curricula and such interactions are expected to result in better interaction of faculty with them to explore industry oriented research at PG level. Our faculty and staff will be provided incentives for training at industries to improve their knowledge and understand the industrial processes.

## **2.6 Provide an action plan for:**

- **Quantitatively increasing and qualitatively improving research by their faculty individually jointly and collaboratively**

It has been planned that

- Establishing a new central research facilities
- 10 faculty to attend National Conference
- 5 faculty to attend International Conference/Symposia/Workshop/ STC
- 10 Faculty to attend National Short term course
- 10 Faculty to be send for industry based knowledge enhancement
- 10 Technical Staff to be sent for improvement of technical competence
- 10 Administrative Staff to be sent for improvement of office/ purchase procedure

- **Developing research interest among undergraduate students**
- **Collaborating with Indian and foreign institutions in academic and research area through MoUs**

PEC University collaborate with British council to promote synergy in the areas covering innovative teaching, technology development and translational projects at United Kingdom. Signing of MoU to foster co-operation for faculty exchange through deputation for short term assignments and other activities which will include joint projects, joint supervision of doctoral students and other academic programmes of mutual interest. Such agreement will include various activities which will enable both PEC and foreign academic institutions to exchange students at both undergraduate and postgraduate levels for internship/projects and course work in regular engineering curriculum for a period of upto six months to one year.

## **2.7 Attach the summary of Training Needs Analysis carried out. Also provide**

**Action Plan for Section 2.5 & 2.6**

| Activity  | Projects Months |     |     |       |       |       |       |       |
|---|-----------------|-----|-----|-------|-------|-------|-------|-------|
|   | 1-3             | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-21 | 22-24 |
| <b>2.5 Action Plan for Improving Collaborations with Industry</b><br>- Curriculum Development Workshop<br>- Industry leader summit<br>- Campus Interviews for enhancing placement<br>- Alumni Industry lectures/interaction   |                 |     | ██  | ██    |       | ██    |       |       |
| <b>2.6 (i) Action Plan for Qualitative and Quantitative Improvement in Research by faculty</b><br>- Seeking proposals<br>- Presentation for selection<br>- Project sanction<br>- Evaluation<br>- Attending National Conference by faculty<br>- Attending International Conference by faculty<br>- Short term Course<br>- Industry based visit and knowledge enhancement | ██              | ██  |     |       | ██    |       |       | ██    |
| <b>(ii) Action Plan for Developing Research interest in UG</b><br>- Workshop for UG students<br>- Seeking Proposal & Presentation<br>- Project Sanction<br>- Evaluation   | ██              |     | ██  |       | ██    |       | ██    | ██    |
| <b>(iii) Action Plan for Collaborating with Indian &amp; Foreign Institutes</b><br>- Formal Correspondence<br>- Visiting<br>- Signing MoU   |                 |     | ██  | ██    | ██    |       | ██    | ██    |





**Faculty Development Plan from the first 18 months to achieve competence based on Training Needs Analysis (TNA) in the following area**

- o Basic and advanced pedagogy training
- o Subject / domain knowledge enhancement
- o Attendance in activities such as workshops seminars etc
- o Improvement in faculty qualifications
- o Improving research capabilities

**Summary of Training Needs Analysis:** A brief summary of TNA carried out is as follows:

**A) FACULTY DEVELOPMENT PLAN**

| <b>Sr. No.</b> | <b>Functional Area</b>   | <b>No. of persons to be trained</b>  | <b>Place where the training to be provided</b> | <b>Date</b> |
|----------------|--|--------------------------------------|--|-------------|
| 1.             | Up-gradation of qualifications   | 4                                    | IITs / PEC                                     | 2014-16     |
| 2.             | Knowledge in new and emerging areas  | 25                                   | IITs/PEC/NITTTRs                               | 2014-16     |
| 3.             | Improving competence in Teaching Methodologies and Development of learning resources and teaching aids | 11                                   | IITs/PEC/NITTTRs                               | 2014-16     |
| 4.             | Improving competence in research and consultancy and managing linkages with institutions / industry    | 12                                   | IITs/PEC/NITTTRs                               | 2014-16     |
| 5.             | Personality Development Programmes, General Management & Administration, Quality Management            | 18                                   | IIMs/NITTTRs/PEC                               | 2014-16     |
| 6.             | Deputation to conferences, seminars, presentation of research papers                                   | As per the needs of faculty & staff. |  | 2014-16     |

## B) STAFF DEVELOPMENT PLAN

### TECHNICAL STAFF

To upgrade and update the skills of technical staff, it is further proposed to provide training to them in the following areas by organizing training programs in the campus as well as sending them to other places or both.

#### (i) ACTION PLAN FOR TRAINING OF TECHNICAL STAFF

| Sr. No. | Area  | No. of persons to be trained | Place where the training to be provided | Date    |
|---------|---|------------------------------|---|---------|
| 1.      | Operation and Maintenance of Machines & Equipment | 8                            | PEC/Supplier Campus                     | 2014-16 |
| 2.      | Upkeep of Institute Services                      | 4                            | PEC/Supplier Campus                     | 2014-16 |
| 3.      | Advanced Knowledge in Occupational areas          | 4                            | PEC/NITTTR/Supplier Campus              | 2014-16 |
| 4.      | Motivational/Attitudinal Development Programmes   | 8                            | PEC/NITTTR/Supplier Campus              | 2014-16 |

#### (ii) ACTION PLAN FOR TRAINING OF ADMINISTRATIVE STAFF

The administrative supporting technical staff shall be trained in office procedures, software, office automation, maintenance of records, procedures, etc. The detailed plan of training is given below:

| Sr. No. | Area of Training   | No. of persons to be trained | Place where the training to be provided  | Date    |
|---------|--|------------------------------|--|---------|
| 1.      | Office Procedures, Financial and Purchase rules, RTI and other Legal matters, maintenance of records and other functional areas. | 8                            | PEC / Chandigarh / Inst. of Secretariat Trg & Mgt. New Delhi / Inst. Of Socio Economic Research and Action(ISERA), New Delhi | 2014-16 |
| 2.      | Use of Modern Office Equipment, Software, Office Automation  | 6                            | PEC/Chandigarh/Suppliers   | 2014-16 |
| 3       | Motivational/Attitudinal Training/Communication Skills etc   | 8                            | PEC/NITTTR, Chd./Delhi   | 2014-16 |

## FACULTY AND STAFF DEVELOPMENT FOR IMPROVED COMPETENCE

Training need analysis has been conducted at PEC University of Technology, Chandigarh to enhance faculty and staff competence. The broad objective of TNA has been the holistic development of faculty and staff for enhancing their efficiency and effectiveness for fulfilling the needs of various projects and programmes. For this purpose a set of questionnaire has been used to assess the training needs at individual level (Faculty and staff) and its finalization at the departmental level. Based on the above information, an institution development plan has been made. The faculty and staff development plan is closely linked with the vision, mission and overall goals of the institution. The broad strategy for preparing faculty and staff development plan comprised of:

|       |  |  |
|-------|--|--|
| (i)   | Faculty with experience less than five years | Pedagogical skills, Communication Skills, Educational Technology, Knowledge in new and emerging areas.   |
| (ii)  | Faculty with experience more than five years | Knowledge in new and emerging areas, Research & Consultancy, Industry-Institute Interaction, Curriculum Development.   |
| (iii) | Heads of Department                          | Curriculum Implementation, Knowledge in new and emerging areas, Department Management, Human Resource Management, Institute Development, General Management. |
| (iv)  | Director                                     | Institute Building, Education Planning & Management, Leadership and General Management   |



## 2.8 Provide an action plan for training technical and other staff in functional areas

### (a) Action Plan for Training of Technical Staff

| Staff     | Training in following functional Ares                 | No of Staff | Training Months |     |     |       |       |       |       |       |
|-----------|---|-------------|-----------------|-----|-----|-------|-------|-------|-------|-------|
|           |   |             | 1-3             | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-21 | 22-24 |
| Technical | (i) Operation and Maintenance of Machines & Equipment | 3           | ■               |     |     |       |       |       |       |       |
|           |   | 2           |                 | ■   |     |       |       |       |       |       |
|           | (ii) Upkeep of Institute Services                     | 3           |                 |     | ■   |       |       |       |       |       |
|           |   | 2           |                 |     |     | ■     |       |       |       |       |
|           | (iii) Advanced Knowledge in Occupational areas        | 3           |                 |     |     | ■     |       |       |       |       |
|           |   | 2           |                 |     |     |       | ■     |       |       |       |
|           | (iv) Motivational/Attitudinal Development Programmes  | 2           |                 |     |     |       |       | ■     |       |       |
|           |   | 3           |                 |     |     |       |       |       | ■     |       |
| 2         |   |             |                 |     |     |       |       |       | ■     |       |

## 2.8

## (b) Action Plan for Training of Administrative Staff

| Staff          | Training in following functional Areas   | No of Staff | Training Months |     |     |       |       |       |       |       |  |
|----------------|--|-------------|-----------------|-----|-----|-------|-------|-------|-------|-------|--|
|                |  |             | 1-3             | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-21 | 22-24 |  |
| Administrative | (i) Office Procedures, Financial and Purchase rules, RTI and other Legal matters, maintenance of records and other functional areas. | 3           | ■               |     |     |       |       |       |       |       |  |
|                |  | 2           |                 | ■   |     |       |       |       |       |       |  |
|                |  | 3           |                 |     | ■   |       |       |       |       |       |  |
|                | (ii) Use of Modern Office Equipment, Software, Office Automation   | 2           |                 |     |     | ■     |       |       |       |       |  |
|                |  | 3           |                 |     |     |       | ■     |       |       |       |  |
|                | (iii) Motivational/Attitudinal Training/Communication Skills etc   | 2           |                 |     |     |       |       | ■     |       |       |  |
|                |  | 3           |                 |     |     |       |       |       | ■     |       |  |
|                |  | 2           |                 |     |     |       |       |       |       | ■     |  |

**2.9 Describe the relevance and coherence of Institutional Development Proposal with State's/National (in case of CFIs) Industrial/Economic Development Plan.**

The Chandigarh Administration is already in the process of upgrading its infrastructure in important areas like Education, Health and Power etc. The PEC University of Technology being a premier institute in Chandigarh has responsibility of keeping high standards of technical education. The TEQIP – II proposal for sub component 1.2 is intending to increase the quantity of ME and PhD students and improving the quality of these programmes. This proposal is directly in line with Chandigarh Administration plan to a premier education city of the country.

**2.10 Describe briefly the participation of departments / faculty in the proposal preparation and implementation.**

This proposal has been discussed in full with all Heads of the Departments, Deans and senior faculty members. The SWOT analysis was performed by the Director NITTTR, Chandigarh. The diagnostic was shared with the graduate students and a small sample of industry leaders and professionals and all the departments of the institute. The activities have been planned based on SWOT and as per the requirements of the Institute /Faculty/Staff/Students. The action plan for such activities has been proposed while keeping academic and financial years into consideration. The proposal has been approved by the Board of Governors of PEC University of Technology.



## 2.11 Institutional Project Implementation Arrangements

| Work Activity   | Year - 1 |   |   |   |   |   |   |   |   |    |    |    | Year - 2 |   |   |   |   |   |   |   |   |    |    |    |
|---|----------|---|---|---|---|---|---|---|---|----|----|----|----------|---|---|---|---|---|---|---|---|----|----|----|
|   | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Establishment of new Central Research Facility ( <b>objective 1</b> )           |          |   |   |   |   |   |   |   |   |    |    | x  |          |   |   |   |   |   |   |   |   |    |    |    |
| Upgradation of existing PG Labs   |          |   |   | x |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Digitization of Library   |          |   |   | x |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Procurement of e-books & CD bank  |          |   |   | x |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Consultancy Services  |          |   |   |   |   |   |   |   | x |    |    |    |          |   |   |   |   |   |   |   | x |    |    |    |
| To attract better quality student in ME & PhD Programmes ( <b>objective 2</b> ) |          |   |   |   |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Norms and guidelines  |          |   | x | x |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| BOG Approval  |          |   |   | x | x |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Advertisement   |          |   |   |   |   | x | x |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Admission   |          |   |   |   |   |   | x | x |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Starting Scholarships   |          |   |   |   |   |   |   | x |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Research & Development Culture ( <b>objective 3</b> )                           | x        |   |   |   |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Securing Sponsored Research   | x        |   |   |   |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Securing Consultancy assignment   | x        |   |   |   |   |   |   |   |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Collaboration with Industry   |          |   |   |   |   |   |   |   | x |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Industrial link projects by ME students   |          |   |   |   |   |   |   | x |   |    |    |    |          |   |   |   |   |   |   |   |   |    |    |    |
| Call for Research funding to  |          |   |   |   |   |   |   | x |   |    |    |    |          |   |   |   |   |   |   |   | x |    |    |    |





**2.12 Provide an institutional project budget in Table No.34.**

**Institutional Project Budget for Sub-Component 1.2**

**Table-34:**

| S. No        | Activities  | Project Life Allocation (Crores) | Financial year (Amount in) |             |
|--------------|---|----------------------------------|----------------------------|-------------|
|              |   |                                  | 2014-15                    | 2015-16     |
| 1            | Infrastructure improvements for demand driven research and PG Technical Education through   |                                  |                            |             |
|              | (a) Establishment of new central research facility (Field Emission Scanning Electron Microscope, High Resolution Transmission Electron Microscope, X-ray Diffractometer, UV-Vis-NIR, GCMS, ICP-AAS, Vacuum Coating Unit (Thermal Evaporation), Semiconductor Device Analyzer, etc.) | 3.20                             | 1.60                       | 1.60        |
|              | (b) Upgradation of existing PG Labs   | 0.24                             | 0.12                       | 0.12        |
|              | (c) Digital Library and increasing access to knowledge resources and ICT based classrooms   | 0.16                             | 0.08                       | 0.08        |
| 2            | Providing Teaching and Research Assistantships to achieve significant increase enrolment in ME and PhD programme.   | 1.60                             | 0.80                       | 0.80        |
| 3            | Enhancement of R&D and institutional consultancy activities   | 0.40                             | 0.20                       | 0.20        |
| 4            | Faculty and Staff development   | 0.80                             | 0.40                       | 0.40        |
| 5            | Enhanced interaction with Industry  | 0.40                             | 0.20                       | 0.2         |
| 6            | Enhancement of Management Capacity for better governance.   | 0.16                             | 0.08                       | 0.08        |
| 7            | Implementation of institutional reforms   | 0.08                             | 0.04                       | 0.04        |
| 8            | Academic support for weak students  | 0.16                             | 0.08                       | 0.08        |
| 9            | Incremental Operating Cost  | 0.80                             | 0.40                       | 0.40        |
| <b>TOTAL</b> |   | <b>8.00</b>                      | <b>4.00</b>                | <b>4.00</b> |

**2.13 (a) Provide the targets against the deliverables given in Table 35.**

**Table-35**

**Project Targets for Institutions under Sub-Component 1.2**

| S. No. | Deliverables  | Base-Line 2014 -15 | Targets to be achieved   |                               |
|--------|---|--------------------|--|-------------------------------|
|        |   |                    | At the end of 2 years of joining the Project                               | By Project closing            |
| 1      | Number of students registered for<br>(a) Masters in Engineering programme | 531                | 574  | 574                           |
|        | (b) Doctoral Programme in Engineering                                     | 200                | 250  | 250                           |
| 2      | Revenue from externally funded R&D projects and Consultancies             | 100                | 125  | 150                           |
| 3      | Number of<br>(a) Research publications in refereed journals               |                    |  |                               |
|        | • National journals<br>• International journals                           | 119<br>173         | 130<br>185   | 140<br>195                    |
|        | (b) Citations   |                    |  |                               |
| 4      | IRG as % of total recurring expenditure                                   | 48.6%              | 52%  | 55%                           |
| 5      | Number of co-authored publications in refereed journals                   |                    |  |                               |
|        | (a) National<br>(b) International   | 119<br>173         | 130<br>185   | 140<br>195                    |
| 6      | Student credentials<br>(a) Campus placement rate of                       |                    |  |                               |
|        | • UG students<br>• PG students  | 91<br>17           | 92<br>25   | 95<br>35                      |
|        | (b) Average salary of placement package for (Rs. in lakh)                 |                    |  |                               |
|        | • UG students<br>• PG students  | 4.0<br>3.5         | 4.25<br>4.00   | 4.54<br>4.5                   |
| 7      | Number of collaborative programmes with Industry                          | 2                  | 3  | 4                             |
| 8      | Accreditation Status (obtained and applied for)                           |                    | At least 100% of eligible UG programmes and 100% of eligible PG programmes | 100% for UG and PG programmes |
| 9      | Vacancy position for faculty and Staff                                    | 32%                | Vacancy reduced to 5% or less  | Zero vacancy                  |
|        |   | 34%                |  |                               |

|     |   |     |                     |                     |
|-----|---|-----|---------------------|---------------------|
| 10  | Percentage of regular faculty with PhD in Engineering disciplines | 50% | At least 20%<br>55% | At least 25%<br>60% |
| 11  | Any other (maximum three)   |     |                     |                     |
| (i) | MoUs with Industry  | 15  | 18                  | 20                  |

## 2.14 Give an action plan to ensure that the project activities would be sustained after the end of the project

### Project Sustainability

In the years after the implementation of the project, the following needs will be have to be attended:

1. General expenses for electricity, water 2. Materials for the use of the laboratories and instruments 3. Maintenance of the laboratories 4. Maintenance of the scientific equipment 5. Systematic update and increase of purchased equipment 6. Teaching and Research Assistantships to ME & PhD students.

1. The first three items on the list are considered in the budget and will require minor adjustment in budget.
2. New ME programme will be sustained on self financed basis and through industry support & through industry linkages
3. The Laboratories and facilities developed through TEQIP will be maintained through Sponsored Projects and Consultancy.
4. The Teaching & Research Assistantships will be sustained through industry support, through Industry – Institute linkages developed during the TEQIP – II. In addition, this aspect will be considered in IRG & future budget of the institute.
5. Funds for the maintenance and permanent updating of the equipment, upgradation of Library, faculty, and staff developments will be considered in IRG and the institute budget.
6. The University is committed to integrate new technological development into engineering education and improve the quality of programmes offered on a long stand basis, which implies that the fund requirement for upgradation of UG and PG Laboratories and research facilities of the institute will be considered in future budgets and IRG of the institute.

The University is fully committed in implementing this project, its specific objectives and actions and in reaching the expected results. To this purpose, it will provide the necessary human and materials resources, including faculty time and administrative support when fully implemented and after project closure, the University will cover the necessary operational costs to assure quality academic services to the students

## 2.15 Provide procurement plan for goods & civil work for Sub-Component 1.2 in Table - 36

Name of the institution with location: PEC University of Technology, CHANDIGARH, U.T.

| Package No | SI No | Activities                                       | Description of Works/Goods   | Estimated Cost | Method of Procurement    | Design Investigation Completion/ Specification | Estimate Sanctioned (Date and Value) | Preparation of Bid Document (Date) | Receipt of Bank's No Objection to Bidding Document (Date)** | Bids                     |                          |
|------------|-------|--|--|----------------|--------------------------|--|--------------------------------------|------------------------------------|---|--------------------------|--------------------------|
|            |       |  |  |                |                          |  |                                      |                                    |   | Invitation (Date)        | Opening (Date)           |
| 1          | 2     | 3  | 4  | 5              | 6                        | 7  | 8                                    | 9                                  | 10  | 11                       | 12                       |
| 1          | I     | <b>Developing New Central Research Facility:</b> | Field Emission Scanning Electron Microscope,<br>High Resolution Transmission Electron Microscope,<br>X-ray Diffractometer,<br>UV-Vis-NIR,<br>GCMS,<br>ICP-AAS,<br>Vacuum Coating Unit (Thermal Evaporation), Semiconductor Device Analyzer, etc. | 11             | As per the institute GFR | Within One Month of the Start of the Activity  | Within One Month from 7              | Within One Month From 8            | Within One Month From 9                                     | Within One Month From 10 | Within One Month From 11 |

|   |     |   |   |      |    |    |    |    |    |    |    |
|---|-----|---|---|------|----|----|----|----|----|----|----|
| 2 | I   | <b>Modernization and strengthening of libraries and increasing access to knowledge resources and ICT based classrooms</b> | RFID Application Software along with LIBSYS 7                   | 2.0  | Do | Do | Do | Do | Do | Do | Do |
| 3 | I   | <b>Upgradation of existing PG Labs</b><br><br><b>Industrial Material and Metallurgical PG Lab</b>                         | 1. Lab scale rolling mill<br><br>2. Compaction press            | 0.25 | Do | Do | Do | Do | Do | Do | Do |
|   | II  | <b>Electrical PG Labs</b>   | 1. Simulation Software<br>2. Thermal Measurement<br>3. Analyzer | 0.14 | Do | Do | Do | Do | Do | Do | Do |
|   | III | <b>CSE PG Labs</b>  | 1. Malware Analysis System                                      | 0.15 | Do | Do | Do | Do | Do | Do | Do |



**Table-37**

**Procurement Plan for Consultant Services for Sub-Component 1.2**

Name of the institution with location: PEC University of Technology, CHANDIGARH ,U.T.

| Sr. No | Activities                     | Description of Services                 | Estimated Cost (Rs) | Methods of Selection @ | To R Finalization (Date) | Advertisement (Date) | * RFP Final Draft to be forwarded to the Bank (Date)** | No Objection from the Bank for RFP (Date)** | RFP Issued (Date) | Proposals Received (Date) | Evaluation (Date) | No Objection by the Bank (Date)** | Contract Value and Date of Award | Contract completion (Date) |
|--------|--------------------------------|---|---------------------|------------------------|--------------------------|----------------------|--|---|-------------------|---------------------------|-------------------|-----------------------------------|----------------------------------|----------------------------|
| 1      | 2                              | 3                                       | 4                   | 5                      | 6                        | 7                    | 8  | 9   | 10                | 11                        | 12                | 13                                | 14                               | 15                         |
| 1      | <b>SWOT Analysis &amp; TNA</b> | Carrying out SWOT /TNA Of the Institute | 0.05                | UT Depute              | Within one month         | Within one month     | N.A  | N.A   | Within one month  | Within one month          | Within one month  |                                   | Within one month                 | Within one month           |
| 2      | <b>Financial Auditing</b>      | Financial Budget /Expenditure Auditing  | 0.03                | As per Norm            | DO                       | DO                   | N.A  | N.A   | DO                | DO                        | DO                | DO                                | DO                               | DO                         |
| 3      | <b>Traning In house</b>        | Mentoring And others Etc.               | 0.04                | Do                     | DO                       | DO                   | N.A  | N.A   | DO                | DO                        | DO                | DO                                | DO                               | DO                         |

\* RFP (Request for Proposal): Same as 'Bid Document' # Technical and Financial

\*\* Applicable in case of 'Prior Review' by the World Bank

@ State Whether (i) Single Firm or Individual: or (ii) Competitive Procedure. If Competitive, then state whether quality and Cost based selection (QCBS) or Quality based selection (QBS) procedure.

## 2.16 SPECIFIC ACHIVEMENTS OF THE INSTITUTE

As listed below

| S No | Achievements                                     | Annexure no.     |
|------|--|------------------|
| 1    | International Publication 2010-14                | Annexure - IX    |
| 2    | National Publication 2010-14                     | Annexure - X     |
| 3    | Book Publication 2010-14                         | Annexure -XI     |
| 4    | Conference Organized 2010-14                     | Annexure - XII   |
| 5    | Seminar /Workshop Organized 2010-14              | Annexure - XIII  |
| 6    | Specialized Training Program Conducted 2010-14   | Annexure - XIV   |
| 7    | Short Term Courses Organized                     | Annexure -XV     |
| 8    | Collaborations /MOUs                             | Annexure - XVI   |
| 9    | Placements through campus 2010-14                | Annexure - XVII  |
| 10   | All India Ranking 2010-14                        | Annexure - XVIII |
| 11   | Renowned Alumni of PEC University Of Technology  | Annexure - XIX   |
| 12   | Industry Interaction through Consultancy 2010-14 | Annexure - XX    |
| 13   | Extension Lecture 2010-14                        | Annexure - XXI   |
| 14   | Sponsored Research projects 2010-14              | Annexure- XXII   |
| 15   | In house research projects 2010-14               | Annexure- XXIII  |

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**BOOKS PUBLISHED (2011)**

- Vasishta Seema                        Developing and Managing Digital Repository for the Special Collections: A Framework. In book entitled "Recent Trends in Library Services" edited by Dr. Mange Ram & Dr. Ram Chander, Vayu Education of India, New Delhi, 2011, pp 21-27
- R S Walia                                Modern's abc of Engineering Materials and Metallurgy, Modern Publishers, 2011
- Alakesh Manna                        "A text Book of Reliability and Maintenance Engineering" Published by "I. K. International Publishing House Pvt.Ltd", New Delhi, (ISBN 978-93-80578-92-7)

## BOOKS PUBLISHED (2012)

|                      |  |
|----------------------|--|
| Vasundhara Singh and | Photocatalytic Degradation Studies of J-Acid under Visible Light and Ultrasonic Activation Using Dye   |
| Sumandeep Kaur       | Sensitised TiO <sub>2</sub> ” Trans Tech Publications Inc, (Year July 2012, 225).  |
| Seema Vasishta       | Enhancing the awareness and use of e-journals in academic libraries of India: Role of promotional stratagem. In book entitled ‘Organization of Information in the Knowledge Society’ edited by Dr. K. Veeranjanyulu, Rajive Kumar Pateria and Dr. Balwan Singh, Intellectual Foundation (India), Rohtak, 2012, pp 321-327. ISBN: 978-93-81818-00-8 |
| Seema Vasishta       | E-journal Collection Development: Implications for Academic Libraries in India. In book entitled ‘Strategic Issues in Library Management’ edited by Chandrakanta Swain, Sunil Kumar Satpathy and Bijayalaxmi Rautaray, Avon Publications, New Delhi, pp 41-64. ISBN: 978-93-8183-902-7   |
| Dr. Alakesh Manna    | A Text Book of Reliability and Maintenance Engineering I.K. International Publication; ISBN: 978-93-80578927; 2011   |
| Prof. Shalom Akhai   | Engineering Thermodynamics Dhanpat Rai & Co  |
| Prof. Shalom Akhai   | Basics of Mechanical Engineering Dhanpat Rai & Co.   |
| Prof. Shalom Akhai   | Elements of Mechanical Engineering Dhanpat Rai & Co  |

## BOOKS PUBLISHED (2013)

- Vasishta, Seema Mapping the Information for the Users in Turbulent Times: Exploiting the Information Technology. In book entitled 'Future Directions in Information Management' edited by Dr. S. Yadagiri, pp 234-46.
- Vasishta, Seema Landscape of Collection Development of E-journals: Footprints to be Followed. In book entitled 'E-resources Management in Libraries: Issues and Challenges' edited by Dr. Mukesh Saikia and Dr. Monawwer Eqbal, KK Publications, Guwahati, pp 75-82. ISBN: 978-93-81691-16-8.
- Inderdeep Singh, Sarbjit Singh, "Conventional and Unconventional hole making in Metal Matrix Composites" Machining and Machine Tools: Research and Development,
- Abhishek Singh Woodhead Publishing House USA. ISBN: 978-0-85709-154-3 (print), ISBN: 978-0-85709-219-9 (online).
- Dr. Neena Gupta, et al. OCDMA: STUDY AND FUTURE ASPECTS, New Dimensions in Wireless Sensor & Ad hoc Network published by Springer, Germany, Accepted to be published in Year 2014
- Uma Batra, Seema Kaoor Emerging Paradigms in Nanotechnology Nano Dimensional and Nanocrystalline Calcium Orthophosphates in Biomedical Field Peterson 2013
- Thareja Priyavrat In Future Directions In Management - Selected Scholarly Papers On Ethics, Governance, Excellence And Sustainability Ethical Governance For Excellence and Sustainability Bharati Publications, New Delhi -6 2012
- Thareja Priyavrat In Future Directions In Management - Selected Scholarly Papers On Ethics, Governance, Excellence And Sustainability Holean Human Leadership Bharati Publications, New Delhi -6 2012
- Thareja Priyavrat Exiled Among Natives The Traits of Quality People Adhyayan Publishers 2013

## BOOKS PUBLISHED (2014)

|   |   |
|---|---|
| Ajay Mittal, Anita Goel<br>Ashok Kamthane | Pearson, Computer Programming (JNTU Hyd.), Edition 2013   |
| Ajay Mittal, Anita Goel<br>Ashok Kamthane | Pearson Computer Programming (JNTU Kakinada), Edition 2013  |
| Neena Gupta                               | OCDMA: Study and Future Aspects Accepted to be published in Year 2014 New Dimensions in Wireless Sensor & Ad hoc Network to be published by Springer, Germany |
| Uma Batra,<br>Seema Kapoor                | Novel bioactive coatings for Stainless steel bio-implants Nano Biomedicine<br>M/s Studium Press, LLC, USA 2014  |
| B.B. Sherpa,<br>Pal Dinesh Kumar          | Study of Explosive welding process and applications Advances in Applied<br>Physical and chemical sciences-A   |
| Uma Batra                                 | Sustainable approach Excellent Publishing House 2014.   |

**CONFERENCE ORGANISED**

1. Prof. S K Singh Organized a International Conference on Environmental Geo-technics (6ICEG-2010) held on 8-12 Nov 2010, New Delhi.
2. Prof. Thareja Priyavrat Organized a National Conference on Entrepreneurial Innovations: Case studies on Entrepreneurs, Incubators, Incubatees and Parks, NITTTR, Chandigarh, 9-10 Nov 2010.
3. Sanjeev Sofat & Divya Bansal Organized Conference on Critical Information Infrastructure Protection held, Conference, August 28, 2012.
4. Dr. Tarlochan Kaur Organized conference on Committee (Engineering Section),, CHASCON, Chandigarh, 1st March – 2nd March, 2013.
5. Ashwani Kumar,  
Vasundhara Singh,  
Sucheta K K Gogna,  
Asha Gupta Anju Singla,  
Shobhna Dhiman  
Satyendra Singh,  
Meena Mahajan  
Sumati Mahajan,  
Prem Lata,  
Rahul O Vaishya Organized a Conference on Chandigarh Science Congress 2013 (Engineering Section) on March 02, 2013.
6. Prof. Rintu Khanna,  
Prof. Balwinder Singh Organized a Conference on Recent advances in power system (RAPS-2014) from 28 June 2014 by Electrical Engineering Department, PEC University of Technology, Chandigarh.
7. Prof. Balwinder Singh Organized International Conference on Electrical, Electronics and Computer Science, 22nd June. 2014 (chaired a Technical Session) at Institute of research and Development India (IRD India), Rasulgarh, Bhubaneswar, Odisha,
8. Prof. Balwinder Singh Organized an International Conference on Electrical, Electronics and Computer Science, 22nd June. 2014 and Delivered an expert lecture on Technology Advancement and it III Effects at Institute of research and Development India (IRD India), Rasulgarh, Bhubaneswar, Odisha.
9. Prof. Balwinder Singh Organized a National Conference on Recent Advances in Power Systems (RAPS-14). 28th June, 2014, Chaired a Technical Session at PEC University of Technology, Chandigarh, ISBN: 978-93-83842-59-9.

- 10 Jagdish Kumar Organized an International Conference on Recent Advances in Engineering and Computational Sciences (RAECS-2014), March 6, 2014, UIET, Panjab University, Chandigarh (Chaired a Technical Session).
- 11 Jagdish Kumar Organized a National Conference on Innovations & Recent Trends in Engineering & Technology (NCIRET-2014), June 27-28, 2014 Vyas College of Engineering & Technology Jodhpur and Delivered Keynote Lecture on “Multilevel Inverters: Topologies, Modulation Schemes, Control Techniques & Applications”.
- 12 S Bhardwaj, S.K Singh ‘Pullout Capacity of Model Micropiles under Oblique Loads’ Indian Geotechnical Organized a Conference (IGC – 2013) held at I.I.T, Roorkee, 22-24 Dec 2013.
- 13 S.K Singh, Datta M ‘Coal Ash as a Hearting Material for Raising of Ash Dyke’ Indian Geotechnical Organized a Conference (IGC – 2013) held at I.I.T, Roorkee, 22-24 Dec 2013.
- 14 Umesh Sharma Organized an International Conference, March 2014 at Goa. IRF (IRAJ Research FORUM).
- 15 Umesh Sharma Organized National Conference on sustainable Infrastructure Development (NCSID) at NITTTR March 2014.
- 16 Umesh Sharma Organized International Conference on Advances in Engg. & Technology-2014 ICAET-2014, Chandigarh.
- 17 Dr. Alakesh Manna Organized a Advancement and futuristic trends in Mechanical Engineering (AFTME-2014) from 17-18 October 2014 by PEC University of Technology, Chandigarh.
- 18 Dr. Rakesh Kumar Organized Advancements and futuristic trends in aerospace engineering (AFTAE-2015) from 13-14 March 2015 by Aerospace Engineering Department, PEC University of Technology, Chandigarh.
- 19 Prof. Sanjeev Sofat Half Day Round Table was organized Conference with DIT “Critical Information Infrastructure Protection – Towards a Cyber Safe City”.
- 20 Umesh Sharma Organized an International Conference, March 2014 at Goa. (IRF (IRAJ Research FORUM).
- 21 Umesh Sharma Organized a National Conference on sustainable Infrastructure Development (NCSID) at NITTTR March 2014.
- 22 Umesh Sharma Organized a International Conference on Advances in Engg. & Technology-2014 ICAET-2014, Chandigarh.



**SEMINAR / WORKSHOP/ SYMPOSIUM**

- |    |   |   |
|----|---|---|
| 1  | Dr. Tarlochan Kaur  | Organized a Workshop on Recent Developments in Mechanical Engineering from 11 to 22 June 2012 by Mechanical Engineering Department, PEC University of Technology, Chandigarh.                         |
| 2  | Dr. Divya Bansal  | Organized a Workshop on Nuturing an Industry Ready Professional from 12 to 14 September 2012 by PEC University of Technology, Chandigarh.   |
| 3  | Dr. Uma Batra   | Organized a Workshop on Advance Techniques For Material Characterization from 06 November 2012 by PEC University of Technology, Chandigarh.   |
| 4  | Prof. Kishori Lal   | Organized a Workshop on Enhancement of R&D Activities from 30 November 2012 by PEC University of Technology, Chandigarh.  |
| 5  | Dr. Neena Gupta   | Organized a Workshop on Design and simulation of photonic communication Systems from 25 January 2013 by Electronics & Communication Engineering Department, PEC University of Technology, Chandigarh. |
| 6  | Dr. Neena Gupta   | Organized a Workshop on Emerging trends in Photonics from 06 February 2013 by Electronics & Communication Engineering Department, PEC University of Technology, Chandigarh.                           |
| 7  | Dr. Tarlochan Kaur  | Organized a Workshop on Recent Trends in Renewable Energy Sources from 13 March 2013 by PEC University of Technology, Chandigarh.   |
| 8  | Dr. Uma Batra<br>Prof. J.D Sharma   | Organized a Workshop on Design, Modeling and Simulations from 22 April 2013 by PEC University of Technology, Chandigarh.  |
| 9  | Dr. Vasundhara singh and<br>Dr. Satyendra singh<br>(functional materials)<br>Dr. Uma Batra & Dr. Mamta<br>sharma (Nano Materials) | Organized a Workshop on Recent Development in Functional Materials from 26 April 2013 by PEC University of Technology, Chandigarh.  |
| 10 | Dr. Vasundhara Singh  | Organized a Workshop on Methodology for submitting proposals for sponsored research projects from 01-02 May 2013 by PEC University of Technology, Chandigarh.   |

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| 11 | Dr. Anju Singla                         | Organized a Workshop on Language, communication and NSS from 30-31 August 2013 by PEC University of Technology, Chandigarh.  |
| 12 | Prof. Har Amrit Singh Sandhu, R R Singh | Organized a Workshop on Recent trends and challenges in civil engineering from 25 April 2014 by PEC University of Technology, Chandigarh.  |
| 13 | Prof. Umesh Sharma, R R Singh           | Organized a Workshop on Application of GIS in Transportation Systems (AGTS-2014) from 22 August 2014 by PEC University of Technology, Chandigarh.  |
| 14 | Dr. Divya Bansal                        | Organized a Workshop on Business process simulation from 03 September 2014 by Computer Science & Engineering Department, PEC University of Technology, Chandigarh.                           |
| 15 | Dr. Umesh Sharma                        | Organized a Workshop on Business communication from 31 October 2014 by PEC University of Technology, Chandigarh.   |
| 16 | Dr. Poonam Saini                        | Organized a Workshop on Research scholars congregation under Chandigarh region innovation and knowledge cluster (CRIKC) from 12 November 2014 by PEC University of Technology, Chandigarh.   |
| 17 | Dr. Divya Bansal                        | Organized a Workshop on Cloud Computing & Bluenix-Pass model of cloud computing from 27 January 2015 by Computer Science & Engineering Department, PEC University of Technology, Chandigarh. |
| 18 | Prof. Rajesh Bhatia                     | Organized a Workshop on Rational seed program from 02-05 February 2015 by Computer Science & Engineering Department, PEC University of Technology, Chandigarh.                               |
| 19 | Prof. Anju Singla                       | National Seminar Enterpreneurship opportunities & Challenges on 26th November 2010.  |
| 20 | Prof. Sucheta                           | Organized a Workshop on The role & importance of basic sciences and humanities in U.G Engg. programe & revision of existing curriculum 23rd March, 2013.                                     |
| 21 | Prof. Tarlochan kaur                    | Organized a Workshop on Recent Trends in Renewal Energy Sources held on 13th March, 2013.  |
| 22 | Prof. Uma Batra                         | Organized a Workshop on Quality Management System in Tube Manufacturing held on 08th March, 2013.  |

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| 23 | Prof. Balwinder Singh  | Organized a Workshop on Development in Renewal Energy Sources from 27th February, 2013 to 01st March, 2013.  |
| 24 | Computer Science & Engg.   | E-Procurement for Punjab Roads & Bridges Development Board, Workshop, 7-12, December 2009.   |
| 25 | Computer Science & Engg.   | One Day Workshop on Preparation of State Crisis Management Plan (CMP) For Countering Cyber Attacks and Cyber Terrorism, May 21, 2010.  |
| 26 | Production Engg. Deptt.  | Workshop on Advancement in MIG Welding on 18, June 2010.   |
| 27 | Materials & Metallurgy Engg.                                     | Competitive Product Development, Seminar in February, 2010.  |
| 28 | Balwinder Singh,<br>S K Suman,<br>Rintu Khanna,<br>Sushant Samir | One day seminar on Chandigarh Solar City of the future: Planning & Implementation on behalf of Chandigarh Administration by PEC with the support Department of Science & Technology, Chandigarh Administration 28 Feb, 2012. |
| 29 | Divya Bansal,<br>Ajay Mittal,<br>Manvjeet Kaur                   | Faculty Enabled Programme on Nurturing professionals for Industry jointly with Infosys, FDP, Sept 12-14, 2012(STC).  |
| 30 | N P Devgan,<br>Shakti Arora,<br>S K Singh                        | “Workshop on MSW Management with focus on Chandigarh” in collaboration with Chandigarh Administration on Nov. 3, 2011.   |
| 31 | Dr Balwinder Singh Surjan  | “Study of Distributed Generation Effectiveness in Power Grid Stability,” National seminar on “Emerging Trends on distributed Generation” NIEC New Delhi-53, 13th Oct. 2012, pp-141-14.                                       |
| 32 | Tilak Thakur & Shailendra Kr                                     | Study and characterization of reactive power in wind farm operation using Matlab Simulink, National Seminar on Emerging Trends in Distributed Generation (ETDG-12), 13 th October 2012, ,New Delhi.                          |
| 33 | Dr. Alakesh Manna,<br>Dr. Sushant Samir                          | Organized one week course on “Advanced Micro manufacturing” from 03-Jun- 2013 to 7-Jun-13 at PEC, University of Technology, Chandigarh.  |
| 34 | Dr. Neelam Rup Prakash, Nagendra Sah, Jasbir Kaur                | Organized a One day Workshop on “Electronic System Design and Manufacturing in India: Opportunities and Challenges”, Organized with DEIT, NEW DELHI on 9th Oct 2012.   |

- 35 Dr. Neelam Rup Prakash, Jasbir Kaur Organized a Half Day workshop on curriculum development of M.E Electronics (VLSI Design) on 11.04.2013.
- 36 Dr. Neelam Rup Prakash, Nagendra Sah Organized a half Day workshop on curriculum development for revision of M.E. (Electronics) on 03.05.2013.
- 37 Dr. Neelam Rup Prakash, Jasbir kaur Organized a half Day workshop on curriculum development for revision of M.E. Electronics (VLSI Design) on 03.05.2013.
- 38 Dr Neena Gupta Organized an academic workshop for the entire faculty of PEC University of Technology as a part of TEQIP –II activities on 19 May 2013.
- 39 Neelam Rup Prakash, Jasbir Kaur Digital Design Using Cadence Tools Feb 24 to 26, 2014.
- 40 Dr. Uma Batra Organized Curriculum Development Workshop on Reforming PG Education in Materials & Metallurgical from 30th Nov 2012.
- 41 Prof. Shakti Kumar Organized Curriculum Development Workshop on P.G Curriculum Revision of M.E. Environmental Engineering held on 17th April 2013.
- 42 Prof. Roshan Lal Organized Curriculum Development Workshop on P.G Curriculum Revision of M.E. Structural Engineering held on 17th April 2013
- 43 Prof. M.A Alam Organized Curriculum Development Workshop on “P.G Curriculum Revision of M.E. Irrigation and Hydraulic Engineering”.
- 44 Dr. Sanjeev Sofat Organized Curriculum Development one day Workshop on Curriculum Development on 23 April 2013.
- 45 Dr. Sanjeev Sofat Organized Curriculum Development Workshop on Curriculum Development for ME-CSE(IS) on 30-04-2013.
- 46 Prof. Tripta Goyal Organized Curriculum Development Workshop on “P.G Curriculum Revision of M.E. Transportation Engineering” Civil Department 17-04-2013.
- 47 Prof. Sulata Bhandari Organized Curriculum Development Workshop on “Revision of M.E. (Electrical) Curriculum Development” 18-04-2013.
- 48 Dr. Arun K Lall Organized Curriculum Development Workshop on Revision of M.E. (Mechanical) Curriculum Development 23-04-2013.
- 49 Dr. Ajay Mittal Organized Curriculum Development Workshop on Academic workshop for framing curriculum for UG Programme (New UG Curriculum) 20th March 2015.

## SPECILISED TRAINING PROGRAMME

|    |                                   |  |
|----|-----------------------------------|--|
| 1  | Parveen Kalra,<br>Jaswinder Singh | Vehicular Ergonomics NITIE Mumbai PEC University of Technology 20-24 April 2014.   |
| 2  | Parveen Kalra,<br>Suman Kant      | Prototyping IIT Delhi PEC University of Technology 25-30 May, 2-6 June.  |
| 3  | Parveen Kalra,<br>Suman Kant      | Conceptual Sketching 1 IIT Delhi PEC University of Technology 5-6th April.   |
| 4  | Parveen Kalra,<br>Suman Kant      | Digital Sculpting in Alias Auto Studion IIT Delhi PEC University of Technology 13-14th April.  |
| 5  | Parveen Kalra,<br>Suman Kant      | Conceptual Sketching 2 IIT Delhi PEC University of Technology 3-4rd May.   |
| 6  | R R Singh                         | On “Knowledge and innovation management” organized by National productivity council from May 31st to June 4th 2014 at Leh, J&K(Training).    |
| 7  | Umesh Sharma                      | Management Capacity Enhancement Programme for Administrators organized by IIM Lucknow Sept. 23-27, 2013.                                     |
| 8  | Umesh Sharma                      | AICTE Training programme on Environmental Engineering and Management At NITTTR from 3-3-2014 to 7-3-2014.                                    |
| 9  | Umesh Sharma                      | Training Programme on Energy Efficient and Green Buildings at NITTTR from 24-2-2014 to 26-2-2014.  |
| 10 | Umesh Sharma                      | Executive Development Programme on Legal Aspects of Contract Management organized by Engineers Development Council from 8-10 November, 2013. |
| 11 | Prof. Rajesh Bhatia               | Training Programme on Rational seed program from 2nd to 5th February 2015.   |
| 12 | Mr. Tejinder Pal Singh            | Session on training need analysis (TNA) held on 23th February 2015.  |

**SHORT-TERM COURSES**

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| 1  | Prof. Neelu Jain    | Organized 2 day short term course on Embedded System Design on 4-5 June 2010.  |
| 2  | Prof. P.S Satsangi  | Short Term Course on “Six Sigma & Research Methodology”.   |
| 3  | Prof. P. Thareja    | Short Term Course on “Offering a Green Belt and Black Belt certification course in Lean Six Sigma”.  |
| 4  | Prof. Sushant Samir | Short term course on Recent Developments in Mechanical Engineering, PEC, June 11-22, 2012.   |
| 5  | Dr Rakesh Kumar     | An STC on ‘Estimation of Aerodynamic derivatives from flight data & dynamic wind tunnel testing’ conducted during April (15-19), 2013.   |
| 6  | Prof. Dina Nath     | 2 days Residential Programme on Contract Labour Regulation Abolition Act 1970 from 24-25 September 2012 at Institute of Public Administration, 38/4, Coles Road Cross, Frazer Town, Bengaluru. |
| 7  | Dr. S K Suman       | 2 days Residential Programme on Contract Labour Regulation Abolition Act 1970 from 24-25 September 2012 at Institute of Public Administration, 38/4, Coles Road Cross, Frazer Town, Bengaluru. |
| 8  | Dr. R. M Belokar    | 2 days Residential Programme on Contract Labour Regulation Abolition Act 1970 from 24-25 September 2012 at Institute of Public Administration, 38/4, Coles Road Cross, Frazer Town, Bengaluru. |
| 9  | Prof. Jagdish Kumar | Attended a Short Term course on Power Electronics, Drives and MATLAB application from 18-22 March 2013 at Rajasthan Technical University, Kota.  |
| 10 | Dr. Rahul O Vaishya | Attended a Short Term course on Essential Technology for Research Problem in Manufacturing from 6th-10th June 13 at NIT warangal. A.P.   |
| 11 | Prof. Padmavati     | Attended a Short Term course on Wireless Sensor Network Theory & Challenges from 21-25 June 2013 at IIT, Kanpur.   |
| 12 | Prof.Nagendra Shah  | Attended a Short Term course onWireless Sensor Network Theory & Challenges from 21-25 June 2013 at IIT, Kanpur.  |
| 13 | Dr. R.M Belokar     | Attended a Short Term course on Essential technology for Research Problem in Manufacturing & Measuremlents (ETRPMM) from 6-14th July, 2013 at NIT, Warangal, Andhra Pradesh.                   |
| 14 | Prof. Jyoti Kedia   | Attended a Short Term course on Optical Fibres communication and sensing application from 15-26 July 2013 at NIITR Chandigarh.   |

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| 15 | Prof. Suman Lata   | Short Term course and Training Course from 22-24 July 2013 at Power viharlake, Mumbai.   |
| 16 | Prof. Sukhwinder Singh                                     | Attended a Short Term course on Circuit Simulation Using Multisim from 22-26 July 2013 at NITTTR, Sec-26, Chandigarh.  |
| 17 | Ms. Meena Mahajan  | Attended a Short Term course on Applied on Numerical Methods with MATLAB from 29 July to 02 August 2013 at NITTTR, Sec-26, Chandigarh.   |
| 18 | Nipun Checker  | Attended a Short Term course on Applied on Numerical Methods with MATLAB from 29 July to 02 August 2013 at NITTTR, Sec-26, Chandigarh.   |
| 19 | Prof. Sudesh Rani  | Faculty development program on effective teaching from 10-12 July 2014 ISTE (Indian Society of Technical Education) at Hotel Le. Meridien, Janpath, New Delhi.                           |
| 20 | Dr. Poonam Saini   | Faculty development program on effective teaching from 10-12 July 2014 ISTE (Indian Society of Technical Education) at Hotel Le. Meridien, Janpath, New Delhi.                           |
| 21 | Prof. Shilpa   | Faculty development program on effective teaching from 10-12 July 2014 organized by ISTE (Indian Society of Technical Education) at Hotel Le. Meridien, Janpath, New Delhi.              |
| 22 | Prof. Neelu Jain   | Attended a Short Term course on Harnessing the researcher to promote sustainable innovation from 2-6 September 2014 at MHRD-IPR Chair, IIT (Indian Institute of Technology) Roorkee.     |
| 23 | Dr. Manoj K. Arora,<br>Director PEC                        | Valedictory function of the Short term course from 5th to 6th September, 2014 at MNIT Jaipur.  |
| 24 | Dr. Umesh sharma   | Attended a Short Term course on Rural roads for development from 15-19 september 2014 at School of Engineering, University of Birmingham, U.K.   |
| 25 | Dr. Sanjeev kumar  | Attended a Short Term course on Structure & characterization of materials from 22nd to 26th December, 2014 at Knowledge incubation for TEQIP, IIT kanpur.                                |
| 26 | Prof. P. S. Satsangi,<br>Dr. Rakesh Kumar<br>& Kishori Lal | Organized a Short term course on Flight Mechanics and Recent Developments from 03rd to 07th December 2012 by Aerospace Engineering Department, PEC University of Technology, Chandigarh. |
| 27 | Dr. Satyendra singh  | Organized a Short term course on Advances in Science and Technology useful for all engineering educators from 05th to 09th December 2012 by PEC University of Technology.                |
| 28 | Ms. Rintu Khanna<br>& Dr. Balwinder<br>Singh               | Organized a Short term course on Application of PLC in Mechatronics from 07th -11th January 2013 by Electrical Engineering Department of PEC University, Technology.                     |

- 29 Dr. Alakesh Manna Organized a Short term course on Advanced and Micro manufacturing Dr. Alakesh Manna 3rd to 7th June 2013 by Mechanical Engineering Department, PEC University of Technology.
- 30 Dr. Rajesh K. Bhatia Organized a Short term course on Agile Software Development from 25th to 29th September 2013 by Computer Science & Engineering Department, PEC University of Technology, Chandigarh.
- 31 Dr. Tarlochan kaur  
Prof. Tejinder Singh  
Saggu Organized a Short term course on Harnessing of energy in harmony with ecology from 16th to 20th Dec 2013 by PEC, University of Technology, Chandigarh.
- 32 Dr. Alakesh Manna Organized a Short term course on Advanced and Micro manufacturing from 2nd to 6th June 2014 by Mechanical Engineering Department, PEC, University of Technology, Chandigarh.
- 33 Dr. Suman Kant Organized a Short term course on Design of experiment and its application in research from 12th to 16th January, 2015 by PEC, University of Technology, Chandigarh.
- 34 Prof. Manish Kumar  
(Registrar) Organized a Short term course on Building positive attitudes from 09th to 13th March, 2015 by NITTTR, Chandigarh.
- 35 Prof. Rakesh Kumar Organized a Short term course on Six Sigma & Research Methodology 20th to 24th Dec 2010.
- 36 Prof. Sushant Samir Organized a Short term course on Refresher Course in “Mechanical Engineering” from 29th Dec 2011 to 11th Jan 2012.
- 37 Prof. Sanjeev Sofat Organized a Short term course on Faculty Development programme with INFOSYS 12th to 14th Sept 2012.
- 38 Prof. Sanjeev Sofat Organized a Short term course on Industry –Institute interaction on CSE Programming (E-Waste Management).
- 39 Prof. R.M Belokar Organized a Short term course on Value Engineering Module – 1 from 14th to 18th July 2014.
- 40 Jagdish Kumar Delivered an expert Lecture on “D-STATCOM and its MATLAB Simulation”STC on “FACTS Technology”, September 23-27, 2013, September 26, 2013 NITTTR Chandigarh.
- 41 Jagdish Kumar Delivered Lecture on “Voltage Control in Power System using CMLI based STATCOM”STC on “Role of Power Electronics in Modern Electrical System” from December 23-27, 2013, December 26, 2013 MNIT Jaipur.
- 42 Jagdish Kumar Delivered Lecture on “MLI Based STATCOM”STC on “Multilevel Inverter and Its Applications” from December 30, 2013- January 3, 2014, January 2, 2014 IIT Roorkee,



- 43 Jagdish Kumar Delivered Lecture on “Power Quality in Electrical Systems: Issues and Solutions”STC on “Computer Aided Power System Analysis”, May 12-16, 2014, May 13, 2014 NITTTR Chandigarh.
- 44 Jagdish Kumar Delivered Lecture on “D-STATCOM and its MATLAB Simulation” STC on “Computer Aided Power System Analysis”, May 12-16, 2014, May 15, 2014, NITTTR, Chandigarh.
- 45 A. Manna, Sushant Samir Conducted Short Term Course on Faculty Development Programme Advanced And Micro-Manufacturing 02 June, 2014 To 06 June, 2014.

**(VI) COLLABORATIVE ARRANGEMENTS WITH INDUSTRY & INSTITUTE**

Collaborations through Memoranda of Understandings (MoUs)

| <b><u>S.NO</u></b> | <b><u>Industry/Institute under MoU</u></b> | <b><u>In the field of</u></b>   | <b><u>Year of inception</u></b> |
|--------------------|--|---|---------------------------------|
| 1                  | Central Scientific Instrument Organization | <ul style="list-style-type: none"> <li>• CSIO and PEC will undertake joint research work in the areas of mutual interest</li> <li>• The concerned scientists of CSIO and corresponding faculty members of PEC will formulate Research projects and HRD plans for joint work with due approval of both the participating institutions.</li> <li>• Impart training to staff, students and technical personnel within the areas of cooperation.</li> <li>• Joint sponsored and consultancy projects could be undertaking with both long term and shorter goals, keeping in view the interest and philosophies of the respective institutions</li> </ul>  | 2008                            |
| 2                  | Philips Electronic India Limited           | <ul style="list-style-type: none"> <li>• Innovation and developing new technology/products</li> <li>• Confidential/Proprietary Information</li> </ul>   | 2008                            |
| 3                  | Mohali Industries Association              | <ul style="list-style-type: none"> <li>• To collaborate for the training of the student of PEC at different industries in Mohali and training of the engineers/technicians of MIA at PEC</li> <li>• To collaborate for the conduct of the joint projects, seminars and workshops</li> <li>• To collaborate in the field of research and development through consultancy.</li> <li>• To share the facilities for testing and services at behest of both institutions.</li> <li>• To create awareness among member industries and students about the benefits of the cooperation of understanding.</li> <li>• The terms of cooperation for each specific activity implemented under the cooperation Mo U shall be mutually discussed and agreed upon in writing by the both PEC &amp; member industry prior to the initiation of that activity.</li> <li>• Tripartite agreements can be made among MIA, PEC &amp; member industry for a particular project.</li> <li>• Each institute shall designate a liaison officer to develop and coordinate the specific activities agree upon.</li> <li>• The presiding officer or the nominee shall interact at least twice a year</li> </ul> | 2009                            |

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| 4 | Punjab Engineering College Old Students Association | <ul style="list-style-type: none"> <li>To promote mutual interest of PEC and its alumni.</li> <li>To encourage beneficial and cordial relations among the alumni and former students and the institute faculty and staff.</li> <li>To promote activities leading to overall growth and development of the institute.</li> <li>To encourage the alumni to aid and share inputs with Departments/Institute in any manner deemed desirable by both</li> </ul>   | 2012 |
| 5 | Terminal Ballistics Research Laboratory             | <ul style="list-style-type: none"> <li>Facilities and support services</li> <li>Provide its laboratory and library facilities.</li> </ul>  | 2002 |
| 6 | Alstom Projects India Limited                       | <ul style="list-style-type: none"> <li>Assist the efforts of students for technical activities</li> </ul>  | 2009 |
| 7 | IBM India Pvt. Limited                              | <p>IBM which shall mainly focus on innovating technologies that matter to people and the world and in alignment with smarter planet them of IBM</p> <p>More specifically, the objectives of the MoU are as enumerated below:</p> <ol style="list-style-type: none"> <li>The centre of Technology Excellence shall host Technology Development Projects involving Faculty and Students in the areas of Systems, Products and Services</li> <li>PEC, under guidance from IBM, and in consonance with the ideologies of IBM, shall develop curriculum and Courseware on the next generation technologies to increase the career opportunities for the students.</li> <li>Explore to introduce a new post graduate program with jointly developed curriculum that is aimed at creating leaders and specialists for the fast growing IT services industry.</li> <li>Help IBM to nurture and acquire the top talents of PEC, as and when necessary</li> </ol> <p>The IBM India University Relations Program, an arm of the IBM Global University Relations Program, would guide PEC, one of the foremost technology institutions in India in the field of higher education to achieve the above stated objectives, with relevant inputs, in regard to the above program, as and when applicable.</p> | 2010 |

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|----|--|--|------|
| 8  | New Jersey Institute of Technology,<br>New Jersey, USA | The following programmes and activities will be encouraged. <ul style="list-style-type: none"> <li>• Exchange of staff</li> <li>• Joint research activities</li> <li>• Joint conference and other academic meeting</li> <li>• Exchange of academic materials and information</li> <li>• Exchange of students</li> </ul>  | 2011 |
| 9  | ICICI  | To encourage and promote talent in premier educational institutions to bring new ideas and innovations in banking/finance industry.  | 2012 |
| 10 | Tata Consultancy Service(TCS)                          | <ul style="list-style-type: none"> <li>• Workshops for students</li> <li>• Faculty Development programs for teachers .</li> <li>• Students Awards to encourage healthy competition at colleges.</li> <li>• Internships Training opportunity for students</li> </ul>  | 2012 |
| 11 | Talwar and Talwar Consultants Pvt. Ltd                 | <ul style="list-style-type: none"> <li>• That TTC has presented to PEC, an innovative idea- the innovative idea is provisionally titled- “Patent Review Platform”. In addition, new, ideas may be developed over time via a special purpose vehicle supported by PEC and TTC.</li> <li>• That the innovative idea is also supported and partly funded by IIT Ropar under the Prototype Development and Innovative Fund of IIT Ropar.</li> </ul>  | 2012 |
| 12 | Zscaler, USA   | Zscaler is intended to promote projects and research activities in the area of Cloud Security.   | 2012 |
| 13 | IIT Roorkee  |  | 2010 |
| 14 | ESIGELEC France  | <ul style="list-style-type: none"> <li>• Joint projects</li> <li>• Collaborative research activities, including joint supervision of doctoral students,</li> <li>• Joint academics programs</li> <li>• Other areas of mutual interest</li> </ul>   | 2008 |
| 15 | IIT Delhi  |  | 2014 |
| 16 | QTL  | <ul style="list-style-type: none"> <li>• To impart practical technical knowledge to PEC Community by establishing a lab equipped with latest technologies.</li> <li>• QTL shall establish and set up an advanced communication lab at Department Electronics &amp; Communication of PEC University premises equipped with latest technologies. VIZ., WBB, FTTH , GSM and CDMA, Wi-Fi, wireless broadband in initial phase. This would enable the PEC community to experiment on these technologies during experiment hours.</li> <li>• QTL shall supply and install various accessories like air conditioner, power</li> </ul> | 2014 |

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|--|--|--|--|
|  |  | <p>plant, cable tray, FMS etc for enabling connectivity for exposure of state-of are technological advancements and to handle live project by under graduate, post graduate students and faculty of ECE Department PEC University of Technology, chandigarh</p> <ul style="list-style-type: none"> <li>• QTL shall not use the lab and tower installed for commercial purposes and an undertaking by QTL stating the same may be provided to PEC. The equipments installed by QTL must preferably be powered off after office/lab hours.</li> <li>• The aspects of Radiation hazards of antenna would be looked into by QTL before installation and a safety certificate issued for the same by the authorized agency be submitted to PEC University of Technology.</li> <li>• The setting up of the advanced communication.</li> <li>• QTL shall send senior persons to impart onsite training to students.</li> <li>• QTL shall send senior persons to impart onsite training to students, as required by ECE Department.</li> <li>• QTL Shall provide guest lectures on various technologies and relevant subject to the students and faculty</li> <li>• QTL shall invite students for summer training</li> <li>• QTL would put the name plate of the lab showing collaboration with PEC at the entrance of the lab.</li> </ul> |  |
|--|--|--|--|

**PLACEMENT OF STUDENTS THROUGH CAMPUS INTERVIEWS- 2010**

The consistent efforts of placement cell were able to have 67 companies on the campus during placement session 2009-10. A total number of 286 undergraduate students have been placed and 126 students got double placement. In addition to this 21 post graduate students have been placed. The highest salary has been offered by CISCO, IOCL, HAL, Goldman Sachs & Geiper as Rs. 7.5 lacs p.a., Rs. 6.7 lacs p.a., Rs. 6.6 lacs p.a., Rs.6.5 lacs p.a. respectively.

**PLACEMENT OF UNDER GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS**

| Branch                 | Eligible Students |           |            | Selected Students |           |            | Balance   |          |           | % of Selected Students |              |              |
|------------------------|-------------------|-----------|------------|-------------------|-----------|------------|-----------|----------|-----------|------------------------|--------------|--------------|
|                        | M                 | F         | Total      | M                 | F         | Total      | M         | F        | Total     | M                      | F            | Total        |
| Aeronautical           | 15                | 0         | 15         | 9                 | 0         | 9          | 6         | 0        | 6         | 60.00                  | 0.00         | 60.00        |
| Civil                  | 28                | 5         | 33         | 24                | 5         | 29         | 4         | 0        | 4         | 85.71                  | 100.00       | 87.88        |
| Computer Science       | 26                | 5         | 31         | 24                | 5         | 29         | 2         | 0        | 2         | 92.31                  | 100.00       | 93.55        |
| Electrical             | 32                | 12        | 44         | 31                | 11        | 42         | 1         | 1        | 2         | 96.88                  | 91.67        | 95.45        |
| Electronics            | 55                | 7         | 62         | 50                | 5         | 55         | 5         | 2        | 7         | 90.91                  | 71.43        | 88.71        |
| Information Technology | 18                | 12        | 30         | 16                | 12        | 28         | 2         | 0        | 2         | 88.89                  | 100.00       | 93.33        |
| Mechanical             | 59                | 0         | 59         | 57                | 0         | 57         | 2         | 0        | 2         | 96.61                  | 0.00         | 96.61        |
| Metallurgy             | 18                | 3         | 21         | 17                | 3         | 20         | 1         | 0        | 1         | 94.44                  | 100.00       | 95.24        |
| Production             | 16                | 3         | 19         | 15                | 2         | 17         | 1         | 1        | 2         | 93.75                  | 66.67        | 89.47        |
| <b>Total</b>           | <b>267</b>        | <b>47</b> | <b>314</b> | <b>243</b>        | <b>43</b> | <b>286</b> | <b>24</b> | <b>4</b> | <b>28</b> | <b>91.01</b>           | <b>91.49</b> | <b>91.08</b> |

**PLACEMENT OF POST GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS**

| Branch           | Eligible Students |           |            | Selected Students |          |           | Balance   |           |            | % of Selected Students |              |              |
|------------------|-------------------|-----------|------------|-------------------|----------|-----------|-----------|-----------|------------|------------------------|--------------|--------------|
|                  | M                 | F         | Total      | M                 | F        | Total     | M         | F         | Total      | M                      | F            | Total        |
| Civil            | 17                | 8         | 25         | 6                 | 0        | 6         | 11        | 8         | 19         | 35.29                  | 0.00         | 24.00        |
| Computer Science | 22                | 4         | 26         | 2                 | 1        | 3         | 20        | 3         | 23         | 9.09                   | 25.00        | 11.54        |
| Electrical       | 15                | 3         | 18         | 2                 | 1        | 3         | 13        | 2         | 15         | 13.33                  | 33.33        | 16.67        |
| Electronics      | 9                 | 3         | 12         | 1                 | 1        | 2         | 8         | 2         | 10         | 11.11                  | 33.33        | 16.67        |
| EPDT             | 10                | 6         | 16         | 2                 | 0        | 2         | 8         | 6         | 14         | 20.00                  | 0.00         | 12.50        |
| Mechanical       | 22                | 0         | 22         | 5                 | 0        | 5         | 17        | 0         | 17         | 22.73                  | 0.00         | 22.73        |
| Metallurgy       | 2                 | 0         | 2          | 0                 | 0        | 0         | 2         | 0         | 2          | 0.00                   | 0.00         | 0.00         |
| Production       | 3                 | 0         | 3          | 0                 | 0        | 0         | 3         | 0         | 3          | 0.00                   | 0.00         | 0.00         |
| <b>Total</b>     | <b>100</b>        | <b>24</b> | <b>124</b> | <b>18</b>         | <b>3</b> | <b>21</b> | <b>82</b> | <b>21</b> | <b>103</b> | <b>18.00</b>           | <b>12.50</b> | <b>16.94</b> |

## PLACEMENT OF STUDENTS THROUGH CAMPUS INTERVIEWS-2011

The consistent efforts of Placement Cell were able to have 93 companies on the campus during placement session 2010-2011. A statement showing the details of company that visited the campus having the information of number of students branch-wise offered job. During this session, total number of 605 jobs has been offered to PEC students. A total number of 332 Under Graduate (UG) and 93 Post Graduate (PG) students have been placed. 180 (156 BE + 24 BE)

### PLACEMENT OF UNDER GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS

| Branch                 | Eligible Students |           |            | Selected Students |           |            | Balance   |          |           | % of Selected Students |              |              |
|------------------------|-------------------|-----------|------------|-------------------|-----------|------------|-----------|----------|-----------|------------------------|--------------|--------------|
|                        | M                 | F         | Total      | M                 | F         | Total      | M         | F        | Total     | M                      | F            | Total        |
| Aeronautical           | 11                | 2         | 13         | 7                 | 1         | 8          | 4         | 1        | 5         | 63.64                  | 50.00        | 61.54        |
| Civil                  | 46                | 5         | 51         | 42                | 5         | 47         | 4         | 0        | 4         | 91.30                  | 100.00       | 92.16        |
| Computer Science       | 26                | 9         | 35         | 24                | 9         | 33         | 2         | 0        | 2         | 92.31                  | 100.00       | 94.29        |
| Electrical             | 37                | 8         | 45         | 33                | 7         | 40         | 4         | 1        | 5         | 89.19                  | 87.50        | 88.89        |
| Electronics            | 55                | 21        | 76         | 50                | 20        | 70         | 5         | 1        | 6         | 90.91                  | 95.24        | 92.11        |
| Information Technology | 28                | 11        | 39         | 26                | 11        | 37         | 2         | 0        | 2         | 92.86                  | 100.00       | 94.87        |
| Mechanical             | 53                | 0         | 53         | 52                | 0         | 52         | 1         | 0        | 1         | 98.11                  | -            | 98.11        |
| Metallurgy             | 27                | 3         | 30         | 20                | 3         | 23         | 7         | 0        | 7         | 74.07                  | 100.00       | 76.67        |
| Production             | 20                | 2         | 22         | 20                | 2         | 22         | 0         | 0        | 0         | 100.00                 | 100.00       | 100.00       |
| <b>Total</b>           | <b>303</b>        | <b>61</b> | <b>364</b> | <b>274</b>        | <b>58</b> | <b>332</b> | <b>29</b> | <b>3</b> | <b>32</b> | <b>90.43</b>           | <b>95.08</b> | <b>91.21</b> |

### PLACEMENT OF POST GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS

| Branch              | Eligible Students |           |            | Selected Students |           |           | Balance   |          |           | % of Selected Students |              |              |
|---------------------|-------------------|-----------|------------|-------------------|-----------|-----------|-----------|----------|-----------|------------------------|--------------|--------------|
|                     | M                 | F         | Total      | M                 | F         | Total     | M         | F        | Total     | M                      | F            | Total        |
| Civil (Structures)  | 9                 | 2         | 11         | 4                 | 1         | 5         | 5         | 1        | 6         | 44.44                  | 50.00        | 45.45        |
| Civil (Highways)    | 3                 | 0         | 3          | 3                 | 1         | 0         | 2         | 0        | 2         | 33.33                  | -            | 33.33        |
| Civil (Environment) | 1                 | 9         | 10         | 0                 | 5         | 5         | 1         | 4        | 5         | 0.00                   | 55.56        | 50.00        |
| Computer Science    | 17                | 5         | 22         | 14                | 4         | 18        | 3         | 1        | 4         | 82.35                  | 80.00        | 81.82        |
| Electrical          | 19                | 1         | 20         | 8                 | 1         | 9         | 11        | 0        | 11        | 42.11                  | 100.00       | 45.00        |
| Electronics         | 12                | 8         | 20         | 9                 | 7         | 16        | 3         | 1        | 4         | 75.00                  | 87.50        | 80.00        |
| EPDT                | 17                | 2         | 19         | 11                | 1         | 12        | 6         | 1        | 7         | 64.71                  | 50.00        | 63.16        |
| Mechanical          | 20                | 0         | 20         | 14                | 0         | 14        | 6         | 0        | 6         | 70.00                  | -            | 70.00        |
| Metallurgy          | 13                | 0         | 13         | 4                 | 0         | 4         | 9         | 0        | 9         | 30.77                  | -            | 30.77        |
| Production          | 18                | 0         | 18         | 9                 | 0         | 9         | 9         | 0        | 9         | 50.00                  | -            | 50.00        |
| <b>Total</b>        | <b>129</b>        | <b>27</b> | <b>156</b> | <b>74</b>         | <b>19</b> | <b>93</b> | <b>55</b> | <b>8</b> | <b>63</b> | <b>57.36</b>           | <b>70.37</b> | <b>59.62</b> |

## **PLACEMENT OF STUDENTS THROUGH CAMPUS INTERVIEWS-2012**

The consistent efforts of Placement Cell were able to have 92 companies on the campus during placement session 2011-2012. A statement showing the details of company that visited the campus having the information of number of students branch-wise offered job. During this session, total number of 459 jobs has been offered to PEC students. A total number of 291 Under Graduate (UG) and 96 Post Graduate (PG) students have been placed.

### **PLACEMENT OF UNDER GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS**

| Branch                        | Eligible Students |           |            | Selected Students |           |            | Balance   |          |           | % of Selected Students |              |              |
|-------------------------------|-------------------|-----------|------------|-------------------|-----------|------------|-----------|----------|-----------|------------------------|--------------|--------------|
|                               | M                 | F         | Total      | M                 | F         | Total      | M         | F        | Total     | M                      | F            | Total        |
| <b>Aeronautical</b>           | 7                 | 6         | 13         | 5                 | 6         | 11         | 2         | 0        | 2         | 71.43                  | 100.00       | 84.62        |
| <b>Civil</b>                  | 34                | 5         | 39         | 33                | 5         | 38         | 1         | 0        | 1         | 97.06                  | 100.00       | 97.44        |
| <b>Computer Science</b>       | 15                | 13        | 28         | 15                | 13        | 28         | 0         | 0        | 0         | 100.00                 | 100.00       | 100.00       |
| <b>Electrical</b>             | 28                | 15        | 43         | 26                | 13        | 39         | 2         | 2        | 4         | 92.86                  | 86.67        | 90.70        |
| <b>Electronics</b>            | 45                | 12        | 57         | 43                | 12        | 55         | 2         | 0        | 2         | 95.56                  | 100.00       | 96.49        |
| <b>Information Technology</b> | 15                | 8         | 23         | 15                | 8         | 23         | 0         | 0        | 0         | 100.00                 | 100.00       | 100.00       |
| <b>Mechanical</b>             | 54                | 0         | 54         | 50                | 0         | 50         | 4         | 0        | 4         | 92.59                  | 0.00         | 92.59        |
| <b>Metallurgy</b>             | 21                | 2         | 23         | 21                | 2         | 23         | 0         | 0        | 0         | 100.00                 | 100.00       | 100.00       |
| <b>Production</b>             | 18                | 6         | 24         | 18                | 6         | 24         | 0         | 0        | 0         | 100.00                 | 100.00       | 100.00       |
| <b>Total</b>                  | <b>237</b>        | <b>67</b> | <b>304</b> | <b>226</b>        | <b>65</b> | <b>291</b> | <b>11</b> | <b>2</b> | <b>13</b> | <b>95.36</b>           | <b>97.01</b> | <b>95.72</b> |

### **PLACEMENT OF POST GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS**

| Branch                              | Eligible Students |           |            | Selected Students |           |           | % of Selected Students |               |               |
|-------------------------------------|-------------------|-----------|------------|-------------------|-----------|-----------|------------------------|---------------|---------------|
|                                     | M                 | F         | Total      | M                 | F         | Total     | M                      | F             | Total         |
| <b>Civil (Structure)</b>            | 11                | 6         | 17         | 5                 | 3         | 8         | 45.45%                 | 50.00%        | 47.06%        |
| <b>Civil (Env.)</b>                 | 4                 | 5         | 9          | 2                 | 3         | 5         | 50.00%                 | 60.00%        | 55.56%        |
| <b>Computer Science</b>             | 16                | 9         | 25         | 11                | 8         | 19        | 68.75%                 | 88.89%        | 76.00%        |
| <b>Information Security</b>         | 8                 | 10        | 18         | 3                 | 9         | 12        | 37.50%                 | 90.00%        | 66.67%        |
| <b>Electrical</b>                   | 22                | 0         | 22         | 12                | 0         | 12        | 54.55%                 | 0.00%         | 54.55%        |
| <b>Electronics</b>                  | 15                | 3         | 18         | 9                 | 2         | 11        | 60.00%                 | 66.67%        | 61.11%        |
| <b>(EPDT)</b>                       | 22                | 0         | 22         | 14                | 0         | 14        | 63.64%                 | 0.00%         | 63.64%        |
| <b>Mechanical</b>                   | 21                | 0         | 21         | 8                 | 0         | 8         | 38.10%                 | 0.00%         | 38.10%        |
| <b>Material &amp; Metallurgical</b> | 9                 | 0         | 9          | 0                 | 0         | 0         | 0.00%                  | 0.00%         | 0.00%         |
| <b>Industrial Design</b>            | 12                | 0         | 12         | 0                 | 0         | 0         | 0.00%                  | 0.00%         | 0.00%         |
| <b>Production</b>                   | 16                | 0         | 16         | 7                 | 0         | 7         | 43.75%                 | 0.00%         | 43.75%        |
| <b>Total</b>                        | <b>156</b>        | <b>33</b> | <b>189</b> | <b>71</b>         | <b>25</b> | <b>96</b> | <b>45.51%</b>          | <b>75.75%</b> | <b>50.79%</b> |



## PLACEMENT OF STUDENTS THROUGH CAMPUS INTERVIEWS-2013

The consistent efforts of Placement Cell were able to have 79 companies on the campus during placement session 2012-2013. A statement showing the details of company that visited the campus having the information of number of students branch-wise offered job. During this session, total number of 396 jobs has been offered to PEC students. A total number of 256 Under Graduate (UG) and 82 Post Graduate (PG) eligible students have been placed. 40 (32 BE + 9 ME) students got double placements

### PLACEMENT OF UNDER GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS

| Branch                        | Eligible Students |           |            | Selected Students |           |            | Balance   |          |           | % of Selected Students |              |              |
|-------------------------------|-------------------|-----------|------------|-------------------|-----------|------------|-----------|----------|-----------|------------------------|--------------|--------------|
|                               | M                 | F         | Total      | M                 | F         | Total      | M         | F        | Total     | M                      | F            | Total        |
| <b>Aeronautical</b>           | 11                | 4         | 15         | 7                 | 3         | 10         | 4         | 1        | 5         | 63.64                  | 75.00        | 66.67        |
| <b>Civil</b>                  | 33                | 5         | 38         | 29                | 4         | 33         | 4         | 1        | 5         | 87.88                  | 80.00        | 86.84        |
| <b>Computer Science</b>       | 18                | 16        | 34         | 18                | 14        | 32         | 0         | 2        | 2         | 100.00                 | 87.50        | 94.12        |
| <b>Electronics</b>            | 40                | 22        | 62         | 24                | 20        | 44         | 16        | 2        | 18        | 60.00                  | 90.91        | 70.97        |
| <b>Electrical</b>             | 30                | 10        | 40         | 28                | 9         | 37         | 2         | 1        | 3         | 93.33                  | 90.00        | 92.50        |
| <b>Information Technology</b> | 11                | 6         | 17         | 10                | 5         | 15         | 1         | 1        | 2         | 90.91                  | 83.33        | 88.24        |
| <b>Mechanical</b>             | 59                | 1         | 60         | 50                | 1         | 51         | 9         | 2        | 9         | 84.75                  | 100.00       | 85.00        |
| <b>Metallurgy</b>             | 17                | 5         | 22         | 14                | 4         | 18         | 3         | 1        | 4         | 82.35                  | 80.00        | 81.82        |
| <b>Production</b>             | 17                | 1         | 18         | 15                | 1         | 16         | 2         | 2        | 2         | 88.24                  | 100.00       | 88.89        |
| <b>Total</b>                  | <b>236</b>        | <b>70</b> | <b>306</b> | <b>195</b>        | <b>61</b> | <b>256</b> | <b>41</b> | <b>9</b> | <b>50</b> | <b>82.63</b>           | <b>87.14</b> | <b>83.66</b> |

### PLACEMENT OF POST GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS

| Branch                       | Eligible Students |           |            | Selected Students |          |           | Balance   |           |            | % of Selected Students |              |              |
|------------------------------|-------------------|-----------|------------|-------------------|----------|-----------|-----------|-----------|------------|------------------------|--------------|--------------|
|                              | M                 | F         | Total      | M                 | F        | Total     | M         | F         | Total      | M                      | F            | Total        |
| <b>Civil</b>                 | 34                | 5         | 39         | 3                 | 0        | 3         | 31        | 5         | 36         | 8.82                   | 0.00         | 7.69         |
| <b>Computer Science</b>      | 16                | 6         | 22         | 14                | 4        | 18        | 2         | 2         | 4          | 87.50                  | 66.67        | 81.82        |
| <b>Computer Science (IS)</b> | 5                 | 12        | 17         | 5                 | 7        | 12        | 0         | 5         | 5          | 100.00                 | 58.33        | 70.59        |
| <b>Electrical</b>            | 21                | 2         | 23         | 13                | 2        | 15        | 8         | 0         | 8          | 61.90                  | 0.00         | 65.22        |
| <b>Electronics</b>           | 16                | 4         | 20         | 5                 | 2        | 7         | 11        | 2         | 13         | 31.25                  | 50.00        | 35.00        |
| <b>Mechanical (Design)</b>   | 16                | 0         | 16         | 8                 | 0        | 8         | 8         | 0         | 8          | 50.00                  | 0.00         | 50.00        |
| <b>Mechanical (Thermal)</b>  | 17                | 1         | 18         | 5                 | 0        | 5         | 12        | 1         | 13         | 29.41                  | 0.00         | 27.78        |
| <b>Industrial Design</b>     | 15                | 0         | 15         | 5                 | 0        | 5         | 10        | 0         | 10         | 33.33                  | 0.00         | 33.33        |
| <b>Production</b>            | 20                | 0         | 20         | 9                 | 0        | 9         | 11        | 0         | 11         | 45.00                  | 0.00         | 45.00        |
| <b>Total</b>                 | <b>126</b>        | <b>30</b> | <b>190</b> | <b>67</b>         | <b>0</b> | <b>82</b> | <b>93</b> | <b>15</b> | <b>108</b> | <b>53.17</b>           | <b>50.00</b> | <b>43.16</b> |

## PLACEMENT OF STUDENTS THROUGH CAMPUS INTERVIEWS-2014

The consistent efforts of Placement Cell were able to have 99 companies on the campus during placement session 2013-2014. A total number of 269 undergraduate students have been placed and 57 students got double placement. In addition to this 54 post graduate students have been placed. The highest salary has been offered by Microsoft, Yahoo, Amazon, D.E.Shaw, Arista Network, Cisco, SanDisk, Indian Navy Power Grid. Highest package was 16.8 lacs

### PLACEMENT OF UNDER GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS

| Branch                        | Eligible Students |           |            | Selected Students |           |            | Balance   |           |            | % of Selected Students |              |              |
|-------------------------------|-------------------|-----------|------------|-------------------|-----------|------------|-----------|-----------|------------|------------------------|--------------|--------------|
|                               | M                 | F         | Total      | M                 | F         | Total      | M         | F         | Total      | M                      | F            | Total        |
| <b>Aeronautical</b>           | 13                | 1         | 14         | 5                 | 1         | 6          | 8         | 0         | 8          | 38.46                  | 100.00       | 42.86        |
| <b>Civil</b>                  | 50                | 11        | 61         | 29                | 6         | 35         | 20        | 5         | 26         | 58.00                  | 54.55        | 57.38        |
| <b>Computer Science</b>       | 24                | 6         | 30         | 23                | 4         | 27         | 2         | 1         | 3          | 95.83                  | 66.67        | 90.00        |
| <b>Electronics</b>            | 43                | 22        | 65         | 36                | 19        | 55         | 7         | 3         | 10         | 83.72                  | 86.36        | 84.62        |
| <b>Electrical</b>             | 43                | 16        | 59         | 31                | 15        | 46         | 14        | 1         | 13         | 72.09                  | 93.75        | 77.97        |
| <b>Information Technology</b> | 17                | 13        | 30         | 14                | 12        | 26         | 3         | 1         | 4          | 82.35                  | 92.31        | 86.67        |
| <b>Mechanical</b>             | 61                | 1         | 62         | 38                | 1         | 39         | 23        | 0         | 23         | 62.30                  | 100.00       | 62.90        |
| <b>Metallurgy</b>             | 28                | 2         | 30         | 18                | 2         | 20         | 10        | 0         | 10         | 64.29                  | 100.00       | 66.67        |
| <b>Production</b>             | 25                | 0         | 25         | 15                | 0         | 15         | 10        | 0         | 10         | 60.00                  | 0.00         | 60.00        |
| <b>Total</b>                  | <b>304</b>        | <b>72</b> | <b>376</b> | <b>209</b>        | <b>60</b> | <b>269</b> | <b>97</b> | <b>11</b> | <b>107</b> | <b>68.75</b>           | <b>83.33</b> | <b>71.54</b> |

### PLACEMENT OF POST GRADUATE STUDENTS THROUGH CAMPUS INTERVIEWS

| Branch                       | Eligible Students |           |            | Selected Students |           |           | Balance    |           |            | % of Selected Students |              |              |
|------------------------------|-------------------|-----------|------------|-------------------|-----------|-----------|------------|-----------|------------|------------------------|--------------|--------------|
|                              | M                 | F         | Total      | M                 | F         | Total     | M          | F         | Total      | M                      | F            | Total        |
| <b>Civil (Structure)</b>     | 8                 | 2         | 10         | 5                 | 0         | 5         | 3          | 2         | 5          | 62.50                  | 0.00         | 50.00        |
| <b>Civil (Env)</b>           | 6                 | 8         | 14         | 5                 | 0         | 5         | 1          | 8         | 9          | 83.33                  | 0.00         | 35.71        |
| <b>Civil (Highway)</b>       | 9                 | 4         | 13         | 1                 | 1         | 2         | 8          | 3         | 11         | 11.11                  | 25.00        | 15.38        |
| <b>Civil (Irrigation)</b>    | 8                 | 1         | 9          | 1                 | 0         | 1         | 7          | 1         | 8          | 12.50                  | 0.00         | 11.11        |
| <b>Computer Science</b>      | 13                | 10        | 23         | 5                 | 7         | 12        | 8          | 3         | 11         | 38.46                  | 70.00        | 52.17        |
| <b>Computer Science (IS)</b> | 7                 | 10        | 17         | 3                 | 1         | 4         | 4          | 9         | 13         | 42.86                  | 10.00        | 23.53        |
| <b>Electrical</b>            | 15                | 8         | 23         | 2                 | 2         | 4         | 13         | 6         | 19         | 13.33                  | 25.00        | 17.39        |
| <b>Electronics</b>           | 16                | 9         | 25         | 3                 | 2         | 5         | 13         | 7         | 20         | 18.75                  | 22.22        | 20.00        |
| <b>Electronics (VLSI)</b>    | 11                | 5         | 16         | 1                 | 2         | 3         | 10         | 3         | 13         | 9.09                   | 40.00        | 18.75        |
| <b>Mechanical</b>            | 24                | 0         | 24         | 5                 | 0         | 5         | 19         | 0         | 19         | 20.83                  | 0.00         | 20.83        |
| <b>Metallurgy</b>            | 18                | 1         | 19         | 5                 | 1         | 6         | 13         | 0         | 13         | 27.78                  | 100.00       | 31.58        |
| <b>Industrial Design</b>     | 12                | 0         | 12         | 0                 | 0         | 0         | 12         | 0         | 12         | 0.00                   | 0.00         | 0.00         |
| <b>Production</b>            | 18                | 0         | 18         | 2                 | 0         | 2         | 16         | 0         | 16         | 11.11                  | 0.00         | 11.11        |
| <b>Total</b>                 | <b>134</b>        | <b>58</b> | <b>223</b> | <b>38</b>         | <b>16</b> | <b>54</b> | <b>127</b> | <b>42</b> | <b>169</b> | <b>28.36</b>           | <b>27.59</b> | <b>24.22</b> |



### Overall Ranking of Top Engineering Colleges

| Overall Rank   | Group Rank | Name of the Engineering Colleges   | Infrastructure (Physical & Academic) (365) | Faculty, Research, Consultancy, MDP & Other Programmes (505) | Admission, Curriculum & Delivery System (310) | Placement (Domestic & International/ Industry Interface) (470) | Total (1650) |
|--|------------|--|--|--|---|--|--------------|
| <b>Ranking of Top Engineering Colleges in India</b>  |            |  |  |  |   |  |              |
| <b>Supreme Engineering College</b>   |            |  |  |  |   |  |              |
| 1)   | ①          | Indian Institute of Technology, Kharagpur, West Bengal   | 318.74                                     | 295.49   | 310.00  | 410.00   | 1334.22      |
| <b>IIT Kharagpur stands supreme amongst the top Engineering Colleges / Institutes in India</b> |            |  |  |  |   |  |              |
| <b>Ranking of Top Engineering Colleges of Super Excellence</b>                                 |            |  |  |  |   |  |              |
| 2)   | ①          | Indian Institute of Technology Madras, Chennai, Tamil Nadu   | 265.74                                     | 316.26   | 310.00  | 377.42   | 1269.42      |
| 3)   | ②          | Birla Institute of Technology - Mesra, Ranchi, Jharkhand   | 241.73                                     | 226.39   | 305.18  | 364.17   | 1137.47      |
| 4)   | ③          | Delhi Technological University (Formerly Delhi College of Engineering), Bawana Road, Delhi             | 250.79                                     | 192.82   | 310.00  | 362.97   | 1116.59      |
| 5)   | ④          | Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh                               | 223.91                                     | 173.13   | 310.00  | 343.42   | 1050.46      |
| 6)   | ⑤          | Punjab Engineering College (Deemed University), Chandigarh, Punjab                                     | 188.29                                     | 183.02   | 310.00  | 340.90   | 1022.21      |
| 7)   | ⑥          | National Institute of Technology, Surathkal, Karnataka   | 222.32                                     | 172.12   | 310.00  | 308.26   | 1012.70      |
| 8)   | ⑦          | College of Engineering, Pune, Maharashtra  | 191.72                                     | 195.73   | 280.00  | 328.95   | 996.41       |
| 9)   | ⑧          | National Institute of Technology, Calicut, Kerala  | 172.27                                     | 190.26   | 310.00  | 312.02   | 984.54       |
| 10)  | ⑨          | Visvesvaraya National Institute of Technology, Nagpur, Maharashtra                                     | 211.55                                     | 132.88   | 310.00  | 326.48   | 980.91       |
| 11)  | ⑩          | Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat                                    | 171.51                                     | 173.76   | 310.00  | 322.42   | 977.69       |
| 12)  | ⑪          | Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat | 137.56                                     | 281.30   | 280.00  | 271.08   | 969.94       |
| 13)  | ⑫          | Veermata Jijabai Technological Institute (VJTI), Mumbai, Maharashtra                                   | 195.56                                     | 124.51   | 280.00  | 364.79   | 964.86       |
| 14)  | ⑬          | Manipal Institute of Technology, Manipal, Karnataka  | 197.39                                     | 146.81   | 273.01  | 346.26   | 963.47       |
| <b>Ranking of Top Engineering Colleges of Excellence</b>                                       |            |  |  |  |   |  |              |
| 15)  | ①          | Jawaharlal Nehru Technological University Hyderabad, Hyderabad, Andhra Pradesh                         | 157.56                                     | 147.83   | 250.00  | 324.20   | 879.58       |

| Rank | Name of institute                         | P: Pvt<br>G: Govt | City           | Selection process (227) | Academic excellence (214) | Personality devt & indl interface (173) | Infrastructure (206) | Placement (180) | Overall score (1,000) |
|------|---|-------------------|----------------|-------------------------|---------------------------|---|----------------------|-----------------|-----------------------|
| 1    | IIT                                       | G                 | Kharagpur      | 210.9                   | 204.9                     | 147.7                                   | 193.5                | 170.8           | 927.8                 |
| 2    | IIT                                       | G                 | Kanpur         | 207.7                   | 203.3                     | 148.6                                   | 194.3                | 158.2           | 912.1                 |
| 3    | IIT                                       | G                 | Bombay         | 210.5                   | 187.6                     | 143.4                                   | 194.3                | 160.4           | 896.2                 |
| 4    | IIT                                       | G                 | Madras         | 210.3                   | 189.6                     | 148.5                                   | 180.1                | 149.8           | 878.3                 |
| 5    | IIT                                       | G                 | Roorkee        | 214.8                   | 192.3                     | 117.9                                   | 178.7                | 149.5           | 853.2                 |
| 6    | IT BHU                                    | G                 | Varanasi       | 193.1                   | 173.6                     | 144.8                                   | 180.3                | 154.1           | 845.9                 |
| 7    | BITS                                      | P                 | Pilani         | 178.9                   | 164.6                     | 153.3                                   | 179.8                | 151.4           | 828.0                 |
| 8    | IIT                                       | G                 | Guwahati       | 190.3                   | 166.8                     | 126.1                                   | 150.0                | 158.3           | 791.5                 |
| 9    | Delhi Technological University*           | G                 | Delhi          | 172.5                   | 147.8                     | 136.4                                   | 169.4                | 157.0           | 783.1                 |
| 10   | College of Engineering, Anna University   | G                 | Guindy         | 179.0                   | 170.1                     | 137.5                                   | 162.7                | 130.3           | 779.6                 |
| 11   | IIIT                                      | P                 | Hyderabad      | 148.1                   | 169.3                     | 148.4                                   | 160.8                | 152.5           | 779.1                 |
| 12   | ISMU                                      | G                 | Dhanbad        | 201.9                   | 169.6                     | 110.1                                   | 161.5                | 130.7           | 773.8                 |
| 13   | BIT                                       | P                 | Mesra, Ranchi  | 163.5                   | 169.9                     | 135.2                                   | 156.2                | 142.6           | 767.4                 |
| 14   | NIT                                       | G                 | Surathkal      | 174.0                   | 153.5                     | 129.3                                   | 165.4                | 141.4           | 763.6                 |
| 15   | NSIT                                      | G                 | Delhi          | 144.8                   | 164.0                     | 143.9                                   | 160.1                | 150.2           | 763.0                 |
| 16   | MNNIT                                     | G                 | Allahabad      | 162.2                   | 163.7                     | 126.4                                   | 148.4                | 146.0           | 746.7                 |
| 17   | PSG College of Technology                 | P                 | Coimbatore     | 146.3                   | 153.2                     | 132.8                                   | 161.0                | 138.9           | 732.2                 |
| 18   | IIIT                                      | G                 | Allahabad      | 164.9                   | 168.4                     | 109.9                                   | 143.5                | 123.7           | 710.4                 |
| 19   | PEC University of Technology <sup>†</sup> | G                 | Chandigarh     | 158.3                   | 148.8                     | 108.1                                   | 141.8                | 136.7           | 693.7                 |
| 20   | Manipal Institute of Technology           | P                 | Manipal        | 146.6                   | 144.6                     | 134.8                                   | 154.9                | 109.4           | 690.3                 |
| 21   | College of Engineering (COEP)             | G                 | Pune           | 147.8                   | 150.3                     | 134.0                                   | 138.8                | 111.0           | 682.0                 |
| 22   | Institute of Technology, Nirma University | P                 | Ahmedabad      | 145.4                   | 119.1                     | 126.7                                   | 131.1                | 129.7           | 652.0                 |
| 23   | NIT                                       | G                 | Hamirpur       | 138.7                   | 141.8                     | 104.8                                   | 130.4                | 130.9           | 646.6                 |
| 24   | Thapar Institute of Engg & Technology     | P                 | Patiala        | 127.1                   | 144.2                     | 112.1                                   | 145.2                | 115.1           | 643.7                 |
| 25   | IIIT                                      | G                 | Gwalior        | 140.7                   | 148.0                     | 117.0                                   | 119.9                | 113.5           | 639.1                 |
| 26   | Dhirubhai Ambani IICT                     | P                 | Gandhinagar    | 139.5                   | 140.8                     | 91.1                                    | 124.6                | 125.0           | 621                   |
| 27   | MNIT                                      | G                 | Jaipur         | 128.2                   | 139.2                     | 108.7                                   | 124.9                | 119.0           | 620.0                 |
| 28   | VJTI                                      | P                 | Mumbai         | 116.5                   | 118.1                     | 94.0                                    | 130.6                | 116.7           | 575.9                 |
| 29   | Mepco Schlenk Engineering College         | P                 | Sivakasi       | 119.6                   | 120.0                     | 102.8                                   | 138.5                | 80.4            | 561.3                 |
| 30   | PES College of Engineering                | P                 | Mandya         | 137.9                   | 131.0                     | 91.1                                    | 107.5                | 86.2            | 553.7                 |
| 31   | SSN College of Engineering                | P                 | Chennai        | 114.9                   | 125.5                     | 92.7                                    | 124.3                | 85.9            | 543.3                 |
| 32   | National Institute of Engineering         | P                 | Mysore         | 132.5                   | 116.9                     | 97.5                                    | 99.1                 | 93.5            | 539.5                 |
| 33   | BIT                                       | G                 | Sindri         | 133.2                   | 111.2                     | 91.2                                    | 110.7                | 92.4            | 538.7                 |
| 34   | GITAM                                     | P                 | Vishakhapatnam | 114.6                   | 111.6                     | 94.7                                    | 127.3                | 87.2            | 535.4                 |
| 35   | SGS Institute of Technology & Science     | G                 | Indore         | 123.4                   | 113.1                     | 89.9                                    | 119.6                | 82.9            | 528.9                 |
| 36   | Thiagarajar College of Engineering        | P                 | Madurai        | 109.1                   | 114.2                     | 103.6                                   | 111.2                | 86.1            | 524.2                 |
| 37   | Chaitanya Bharathi Inst of Technology     | P                 | Hyderabad      | 124.0                   | 109.4                     | 94.7                                    | 95.8                 | 90.5            | 514.4                 |
| 38   | MIT College of Engineering                | P                 | Pune           | 110.5                   | 109.2                     | 89.8                                    | 97.8                 | 105.7           | 513.0                 |
| 39   | Guru Nanak Dev Engineering College        | G                 | Ludhiana       | 121.4                   | 107.5                     | 84.0                                    | 112.6                | 85.8            | 511.3                 |
| 40   | Amrita School of Engineering              | P                 | Coimbatore     | 93.8                    | 106.5                     | 103.6                                   | 117.4                | 88.2            | 509.5                 |
| 41   | Bangalore Institute of Technology         | P                 | Bangalore      | 140.2                   | 116.3                     | 64.8                                    | 91.5                 | 96.6            | 509.4                 |
| 42   | Shri Ramdeo Baba KN Engg College          | P                 | Nagpur         | 94.6                    | 105.4                     | 98.5                                    | 91.2                 | 75.8            | 465.5                 |
| 43   | DJ Sanghvi College of Engineering         | P                 | Mumbai         | 89.6                    | 109.3                     | 91.4                                    | 81.3                 | 88.6            | 460.2                 |
| 44   | Sona College of Technology                | P                 | Salem          | 91.9                    | 97.6                      | 89.4                                    | 97.3                 | 63.1            | 439.3                 |
| 45   | Kongu Engineering College                 | P                 | Erode          | 92.2                    | 79.4                      | 92.7                                    | 103.1                | 61.4            | 428.8                 |
| 46   | Sri Venkateswara College of Engineering   | P                 | Chittoor       | 101.4                   | 94.8                      | 70.3                                    | 99.3                 | 58.4            | 424.2                 |
| 47   | KL University**                           | P                 | Guntur         | 81.2                    | 76.0                      | 70.8                                    | 97.2                 | 63.3            | 388.5                 |
| 48   | Acharya Institute of Technology           | P                 | Bangalore      | 107.7                   | 70.3                      | 64.4                                    | 74.0                 | 70.2            | 386.6                 |
| 49   | Sir M. Visvesvaraya Inst of Technolgy     | P                 | Bangalore      | 85.0                    | 59.6                      | 76.4                                    | 84.3                 | 75.1            | 380.4                 |
| 50   | Muffakham Jah College of Engineering      | P                 | Hyderabad      | 101.5                   | 78.1                      | 67.1                                    | 67.6                 | 62.9            | 377.2                 |

| Rank | Name of institute                    | P: Pvt<br>G: Govt | City           | Selection process (227) | Academic excellence (214) | Personality devt & indl interface (173) | Infrastructure (206) | Placement (180) | Overall score (1,000) |
|------|--------------------------------------|-------------------|----------------|-------------------------|---------------------------|---|----------------------|-----------------|-----------------------|
| 1    | IIT                                  | G                 | Kharagpur      | 195.5                   | 189.2                     | 134.9                                   | 193.1                | 174.5           | 887.2                 |
| 2    | IIT                                  | G                 | Delhi          | 207.6                   | 181.5                     | 137.2                                   | 187.9                | 164.7           | 878.9                 |
| 3    | IIT                                  | G                 | Mumbai         | 203.3                   | 195.4                     | 128.6                                   | 179.0                | 168.1           | 874.4                 |
| 4    | IIT                                  | G                 | Kanpur         | 199.2                   | 192.7                     | 140.2                                   | 182.8                | 157.7           | 872.6                 |
| 5    | IIT                                  | G                 | Chennai        | 197.7                   | 187.0                     | 153.9                                   | 163.4                | 159.8           | 861.8                 |
| 6    | IIT                                  | G                 | Roorkee        | 203.4                   | 189.2                     | 130.6                                   | 174.2                | 161.1           | 858.5                 |
| 7    | IT-BHU                               | G                 | Varanasi       | 207.1                   | 174.8                     | 140.2                                   | 174.9                | 160.6           | 857.6                 |
| 8    | BITS                                 | P                 | Pilani         | 192.1                   | 176.3                     | 158.9                                   | 194.2                | 131.9           | 853.4                 |
| 9    | Delhi Technological University       | G                 | Delhi          | 197.7                   | 159.5                     | 140.2                                   | 174.5                | 167.1           | 839.0                 |
| 10   | NIT                                  | G                 | Tiruchirapalli | 184.0                   | 167.7                     | 128.8                                   | 169.0                | 160.0           | 809.5                 |
| 11   | ISMU                                 | G                 | Dhanbad        | 170.3                   | 157.8                     | 98.7                                    | 152.2                | 141.5           | 720.5                 |
| 12   | College of Engineering, Anna Univ    | G                 | Guindy         | 165.5                   | 152.9                     | 121.3                                   | 148.3                | 130.2           | 718.2                 |
| 13   | BIT, Mesra                           | P                 | Ranchi         | 163.6                   | 159.0                     | 99.3                                    | 153.7                | 141.1           | 716.7                 |
| 14   | NIT                                  | G                 | Surathkal      | 168.4                   | 141.2                     | 115.0                                   | 149.7                | 132.6           | 706.9                 |
| 15   | NIT                                  | G                 | Warangal       | 164.1                   | 126.1                     | 108.5                                   | 133.8                | 119.0           | 651.5                 |
| 16   | IIIT                                 | P                 | Hyderabad      | 115.4                   | 145.5                     | 114.7                                   | 130.4                | 129.3           | 635.3                 |
| 17   | NSIT                                 | G                 | Delhi          | 124.5                   | 131.5                     | 119.1                                   | 124.3                | 127.7           | 627.1                 |
| 18   | IIIT                                 | G                 | Allahabad      | 156.6                   | 126.8                     | 105.1                                   | 117.2                | 106.5           | 612.2                 |
| 19   | PSG College of Technology            | P                 | Coimbatore     | 119.9                   | 118.2                     | 119.0                                   | 133.4                | 111.0           | 601.5                 |
| 20   | JNTUH College of Engineering         | P                 | Hyderabad      | 119.8                   | 126.2                     | 111.1                                   | 128.7                | 109.3           | 595.1                 |
| 21   | Manipal Institute of Technology      | P                 | Manipal        | 128.1                   | 123.5                     | 111.3                                   | 127.5                | 97.1            | 587.5                 |
| 22   | NIT                                  | G                 | Hamirpur       | 148.5                   | 111.7                     | 84.5                                    | 122.8                | 116.6           | 584.1                 |
| 23   | PEC Univ of Tech,                    | G                 | Chandigarh     | 142.7                   | 126.1                     | 73.0                                    | 122.3                | 109.3           | 573.4                 |
| 24   | College of Engineering               | G                 | Pune           | 117.3                   | 124.8                     | 107.1                                   | 119.2                | 104.6           | 573.0                 |
| 25   | BIT                                  | G                 | Sindri         | 149.0                   | 114.2                     | 93.7                                    | 118.9                | 96.0            | 571.8                 |
| 26   | Harcourt Butler Technology Institute | G                 | Kanpur         | 128.1                   | 117.4                     | 90.1                                    | 106.5                | 118.5           | 560.6                 |
| 27   | Thapar University                    | P                 | Patiala        | 89.0                    | 109.7                     | 95.6                                    | 100.5                | 89.5            | 484.3                 |
| 28   | Institute of Chemical Technology     | G                 | Mumbai         | 94.2                    | 115.3                     | 63.2                                    | 108.5                | 90.0            | 471.2                 |
| 29   | ABV-IIIT                             | G                 | Gwalior        | 86.2                    | 97.0                      | 88.4                                    | 97.9                 | 95.3            | 464.8                 |
| 30   | Institute of Technology, Nirma Univ  | P                 | Ahmedabad      | 93.0                    | 98.6                      | 81.4                                    | 94.4                 | 94.0            | 461.4                 |
| 31   | University Inst of Engg and Tech     | G                 | Chandigarh     | 95.8                    | 104.3                     | 76.3                                    | 95.9                 | 84.7            | 457.0                 |
| 32   | PES Institute of Technology          | P                 | Bangalore      | 113.6                   | 84.8                      | 93.8                                    | 69.5                 | 91.9            | 453.6                 |
| 33   | National Institute of Engineering    | P                 | Mysore         | 116.9                   | 96.3                      | 74.5                                    | 87.6                 | 72.9            | 448.2                 |
| 34   | VJTI                                 | P                 | Mumbai         | 100.4                   | 96.3                      | 71.0                                    | 84.2                 | 83.0            | 434.9                 |
| 35   | Madras Institute of Technology       | G                 | Chennai        | 103.6                   | 74.2                      | 65.0                                    | 76.4                 | 79.4            | 398.6                 |
| 35   | RVCE                                 | P                 | Bangalore      | 98.4                    | 75.9                      | 76.4                                    | 70.7                 | 77.2            | 398.6                 |
| 37   | Univ College of Engg, Osmania Univ   | G                 | Hyderabad      | 91.2                    | 80.5                      | 69.6                                    | 78.0                 | 66.9            | 386.2                 |
| 38   | S.S.N. College of Engineering        | P                 | Chennai        | 79.0                    | 86.1                      | 66.9                                    | 93.1                 | 58.5            | 383.6                 |
| 39   | SGSITS                               | G                 | Indore         | 71.5                    | 93.9                      | 69.1                                    | 91.3                 | 54.7            | 380.5                 |
| 40   | Mepco Schlenk Engineering College    | P                 | Sivakasi       | 74.2                    | 81.3                      | 65.3                                    | 100.3                | 55.3            | 376.4                 |
| 41   | Guru Nanak Dev Engineering College   | G                 | Ludhiana       | 97.6                    | 89.3                      | 64.6                                    | 71.0                 | 52.7            | 375.2                 |
| 42   | P.E.S. College of Engineering        | P                 | Mandya         | 105.3                   | 82.5                      | 66.9                                    | 69.7                 | 47.0            | 371.4                 |
| 43   | Chaitanya Bharathi Institute of Tech | P                 | Hyderabad      | 92.2                    | 86.5                      | 62.5                                    | 75.9                 | 52.7            | 369.8                 |
| 44   | Thiagarajar College of Engineering   | P                 | Madurai        | 71.4                    | 79.9                      | 72.4                                    | 80.6                 | 63.7            | 368.0                 |
| 45   | D.J. Sanghvi College of Engg         | P                 | Mumbai         | 69.6                    | 94.8                      | 82.9                                    | 72.1                 | 47.8            | 367.2                 |
| 46   | Amrita School of Engineering         | P                 | Coimbatore     | 65.7                    | 74.6                      | 73.6                                    | 82.4                 | 70.3            | 366.6                 |
| 47   | Govt Model Engineering College       | G                 | Kochi          | 83.9                    | 72.3                      | 57.1                                    | 65.0                 | 84.9            | 363.2                 |
| 48   | Govt College of Engineering          | G                 | Amravati       | 80.3                    | 76.7                      | 68.5                                    | 70.2                 | 66.7            | 362.4                 |
| 49   | MIT College of Engineering           | P                 | Pune           | 57.8                    | 85.5                      | 64.6                                    | 73.4                 | 78.6            | 359.9                 |
| 50   | BMS Institute of Technology          | P                 | Bangalore      | 105.4                   | 66.4                      | 58.5                                    | 60.5                 | 66.7            | 357.5                 |

| Rank | 2012 | 2011 | Name of institute                   | P: Pvt<br>G: Govt | City           | Selection process (227) | Academic excellence (214) | Personality devt & indl interface (173) | Infrastructure (206) | Placement (180) | Overall score (1,000) |
|------|------|------|-------------------------------------|-------------------|----------------|-------------------------|---------------------------|---|----------------------|-----------------|-----------------------|
| 1    | 2    |      | IIT                                 | G                 | Delhi          | 207.4                   | 196.7                     | 154.2                                   | 189.3                | 167.3           | 914.9                 |
| 2    | 1    |      | IIT                                 | G                 | Kharagpur      | 201.3                   | 194.2                     | 164.7                                   | 192.4                | 161.7           | 914.3                 |
| 3    | 3    |      | IIT                                 | G                 | Bombay         | 206.9                   | 191.6                     | 145.1                                   | 196.8                | 167.2           | 907.6                 |
| 4    | 4    |      | IIT                                 | G                 | Kanpur         | 197.4                   | 197.8                     | 152.3                                   | 190.0                | 166.4           | 903.9                 |
| 5    | 5    |      | IIT                                 | G                 | Madras         | 202.9                   | 193.6                     | 141.7                                   | 196.7                | 163.7           | 898.6                 |
| 6    | 7    |      | IT, BHU                             | G                 | Varanasi       | 202.1                   | 186.2                     | 150.0                                   | 179.6                | 153.5           | 871.4                 |
| 7    | 8    |      | BITS                                | P                 | Pilani         | 191.8                   | 178.1                     | 159.8                                   | 191.3                | 149.9           | 870.9                 |
| 8    | NP   |      | IIT                                 | G                 | Guwahati       | 199.1                   | 185.7                     | 133.0                                   | 171.0                | 163.3           | 852.1                 |
| 9    | 9    |      | DTU                                 | G                 | Delhi          | 198.9                   | 165.3                     | 137.0                                   | 177.6                | 165.2           | 844.0                 |
| 10   | 10   |      | NIT                                 | G                 | Tiruchirapalli | 185.3                   | 174.3                     | 138.3                                   | 179.2                | 163.2           | 840.3                 |
| 11   | 11   |      | ISMU                                | G                 | Dhanbad        | 194.7                   | 179.1                     | 136.7                                   | 167.4                | 155.8           | 833.7                 |
| 12   | 12   |      | Univ Departments, Anna Univ         | G                 | Guindy         | 168.9                   | 176.2                     | 153.0                                   | 177.5                | 149.1           | 824.7                 |
| 13   | 14   |      | NIT                                 | G                 | Surathkal      | 182.8                   | 169.6                     | 143.6                                   | 172.1                | 156.0           | 824.1                 |
| 14   | 16   |      | IIIT                                | P                 | Hyderabad      | 170.7                   | 178.8                     | 144.2                                   | 166.3                | 163.0           | 823.0                 |
| 15   | 13   |      | BIT                                 | P                 | Ranchi         | 174.9                   | 177.8                     | 128.6                                   | 179.1                | 153.4           | 813.8                 |
| 16   | 15   |      | NIT                                 | G                 | Warangal       | 176.3                   | 165.9                     | 132.3                                   | 165.2                | 159.9           | 799.6                 |
| 17   | 17   |      | NSIT                                | G                 | Delhi          | 154.0                   | 167.2                     | 149.7                                   | 163.4                | 153.8           | 788.1                 |
| 18   | 19   |      | PSG College of Technology           | P                 | Coimbatore     | 156.4                   | 157.8                     | 148.1                                   | 167.8                | 146.1           | 776.2                 |
| 19   | NP   |      | NIT                                 | G                 | Rourkela       | 178.9                   | 163.8                     | 126.3                                   | 152.8                | 153.2           | 775.0                 |
| 20   | 18   |      | IIIT                                | G                 | Allahabad      | 168.8                   | 159.1                     | 120.7                                   | 160.1                | 158.1           | 765.0                 |
| 21   | 23   |      | PEC University of Technology        | G                 | Chandigarh     | 157.4                   | 164.2                     | 117.6                                   | 162.3                | 145.1           | 746.6                 |
| 22   | 24   |      | College of Engineering              | G                 | Pune           | 150.9                   | 166.6                     | 144.4                                   | 163.2                | 117.3           | 742.4                 |
| 23   | 22   |      | NIT                                 | G                 | Hamirpur       | 177.6                   | 154.0                     | 125.3                                   | 149.1                | 135.2           | 741.2                 |
| 24   | 26   |      | Harcourt Butler Tech. Institute     | G                 | Kanpur         | 177.7                   | 150.2                     | 121.4                                   | 143.3                | 148.5           | 741.1                 |
| 24   | 21   |      | Manipal Institute of Technology     | P                 | Manipal        | 171.7                   | 154.4                     | 136.6                                   | 160.0                | 118.4           | 741.1                 |
| 26   | 27   |      | Thapar University                   | P                 | Patiala        | 142.4                   | 165.9                     | 128.5                                   | 168.1                | 135.6           | 740.5                 |
| 27   | NP   |      | Motilal Nehru NIT                   | G                 | Allahabad      | 184.5                   | 164.8                     | 102.4                                   | 145.2                | 143.1           | 740.0                 |
| 28   | 25   |      | BIT                                 | G                 | Sindri         | 173.5                   | 156.2                     | 124.0                                   | 156.0                | 127.8           | 737.5                 |
| 29   | NP   |      | VNIT                                | G                 | Nagpur         | 183.3                   | 159.6                     | 101.7                                   | 153.9                | 138.1           | 736.6                 |
| 30   | 29   |      | ABV-IIIT                            | G                 | Gwalior        | 156.0                   | 159.0                     | 115.2                                   | 162.6                | 143.7           | 736.5                 |
| 31   | 31   |      | UIET                                | G                 | Chandigarh     | 148.1                   | 159.1                     | 132.6                                   | 151.3                | 134.2           | 725.3                 |
| 32   | 34   |      | VJTI                                | P                 | Mumbai         | 165.9                   | 161.7                     | 130.6                                   | 146.0                | 119.4           | 723.6                 |
| 33   | 35   |      | RVCE                                | P                 | Bangalore      | 159.0                   | 149.5                     | 133.8                                   | 142.0                | 139.1           | 723.4                 |
| 34   | 30   |      | Institute of Tech, Nirma University | P                 | Ahmedabad      | 147.9                   | 157.3                     | 142.5                                   | 147.4                | 127.6           | 722.7                 |
| 35   | 32   |      | PESIT                               | P                 | Bangalore      | 185.1                   | 148.1                     | 108.3                                   | 143.0                | 134.1           | 718.6                 |
| 36   | 33   |      | NIE                                 | P                 | Mysore         | 161.0                   | 151.0                     | 133.9                                   | 144.3                | 120.1           | 710.3                 |
| 37   | 37   |      | Univ College of Engg., Osmania Univ | G                 | Hyderabad      | 148.8                   | 148.4                     | 126.9                                   | 144.5                | 141.3           | 709.9                 |
| 38   | 39   |      | Shri G.S. Institute of Tech & Sc    | G                 | Indore         | 165.0                   | 157.3                     | 119.8                                   | 151.2                | 114.3           | 707.6                 |
| 39   | 38   |      | SSN College of Engg                 | P                 | Chennai        | 142.0                   | 149.0                     | 134.3                                   | 155.3                | 119.5           | 700.1                 |
| 40   | 40   |      | Mepco Schlenk Engg College          | P                 | Sivakasi       | 145.0                   | 148.0                     | 118.5                                   | 163.6                | 112.1           | 687.2                 |
| 41   | 43   |      | Chaitanya Bharathi Instt of Tech    | P                 | Hyderabad      | 150.4                   | 134.5                     | 120.9                                   | 151.8                | 128.1           | 685.7                 |
| 42   | 44   |      | Thiagarajar College of Engg         | P                 | Madurai        | 146.3                   | 147.9                     | 123.5                                   | 145.4                | 122.1           | 685.2                 |
| 43   | 41   |      | Guru Nanak Dev Engg College         | G                 | Ludhiana       | 150.8                   | 158.5                     | 123.4                                   | 137.7                | 111.0           | 681.4                 |
| 44   | NP   |      | Dr B.R. Ambedkar NIT                | G                 | Jalandhar      | 153.3                   | 145.1                     | 95.8                                    | 134.8                | 137.7           | 666.7                 |
| 45   | 48   |      | Govt College of Engg                | G                 | Amravati       | 149.6                   | 131.4                     | 123.4                                   | 141.0                | 119.9           | 665.3                 |
| 46   | 45   |      | D.J. Sanghvi College of Engg        | P                 | Mumbai         | 136.1                   | 144.8                     | 132.2                                   | 123.2                | 127.0           | 663.3                 |
| 47   | 46   |      | Amrita School of Engg               | P                 | Coimbatore     | 134.4                   | 138.1                     | 128.1                                   | 144.8                | 113.8           | 659.2                 |
| 48   | 42   |      | P.E.S College of Engg               | P                 | Mandya         | 133.8                   | 144.2                     | 121.6                                   | 150.0                | 97.1            | 646.7                 |
| 49   | 47   |      | Govt Model Engg College             | G                 | Kochi          | 155.9                   | 128.0                     | 105.0                                   | 126.0                | 131.6           | 646.5                 |
| 50   | 49   |      | MIT College of Engg                 | P                 | Pune           | 124.5                   | 137.9                     | 135.0                                   | 132.0                | 116.7           | 646.1                 |



**Overall Ranking of Top Engineering Colleges**

| Rank   | Name of the Engineering College  | Infrastructure<br>(Physical & Academic)<br>(350) | Faculty, Research, Consultancy, EDP & Other Programmes<br>(600) | Admission Curriculum & Delivery System<br>(250) | Placement/ Industry Interface/ USP<br>(460) | Total Score<br>(1700) |
|--|--|--|---|---|---|-----------------------|
| <b>Ranking of Top 4 Leading Engineering Colleges of Super Excellence</b> |  |  |   |   |   |                       |
| 1)   | Indian Institute of Technology, Kharagpur, West Bengal   | 366.55   | 470.11  | 214.00  | 436.00                                      | 1486.66               |
| 2)   | Indian Institute of Technology, Kanpur, Uttar Pradesh  | 359.78   | 473.01  | 213.26  | 434.36                                      | 1480.40               |
| 3)   | Indian Institute of Technology Madras, Chennai, Tamil Nadu   | 339.75   | 454.88  | 213.01  | 414.79                                      | 1422.44               |
| 4)   | Indian Institute of Technology (BHU), Varanasi, Uttar Pradesh  | 331.60   | 452.64  | 208.34  | 402.28                                      | 1394.85               |
| <b>Ranking of Top Engineering Colleges of Super Excellence</b>           |  |  |   |   |   |                       |
| 1)   | Birla Institute of Technology - Mesra, Ranchi, Jharkhand   | 319.61   | 429.44  | 191.00  | 380.66                                      | 1320.72               |
| 2)   | Delhi Technological University (Formerly Delhi College of Engineering), Shahabad Daultpur, New Delhi   | 320.98   | 405.92  | 190.00  | 389.70                                      | 1306.60               |
| 3)   | Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh                               | 306.88   | 391.60  | 197.00  | 379.78                                      | 1275.27               |
| 4)   | National Institute of Technology, Surathkal, Karnataka   | 289.16   | 392.24  | 191.05  | 376.20                                      | 1248.65               |
| 5)   | PTCC University of Technology, Chandigarh, Punjab  | 286.16   | 381.97  | 195.00  | 368.34                                      | 1231.47               |
| 6)   | Thapar University, Patiala, Punjab   | 272.61   | 374.19  | 192.00  | 374.07                                      | 1212.88               |
| 7)   | College of Engineering, Pune, Maharashtra  | 278.35   | 359.67  | 183.86  | 355.75                                      | 1177.62               |
| 8)   | Manipal Institute of Technology, Manipal, Karnataka  | 266.54   | 346.19  | 187.21  | 353.85                                      | 1153.79               |
| 9)   | Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat | 262.20   | 332.57  | 207.25  | 348.34                                      | 1150.36               |
| 10)  | Jawaharlal Nehru Technological University Hyderabad College of Engineering, Hyderabad, Andhra Pradesh  | 271.69   | 334.20  | 192.71  | 346.19                                      | 1144.79               |
| 11)  | Institute of Technology (Nirma University), Ahmedabad, Gujarat   | 264.70   | 313.58  | 198.15  | 336.62                                      | 1113.05               |
| <b>Ranking of Top Engineering Colleges of Excellence</b>                 |  |  |   |   |   |                       |
| 1)   | SSN College of Engineering, Kalavakkam, Tamil Nadu   | 246.39   | 316.00  | 189.92  | 332.12                                      | 1084.42               |
| 2)   | National Institute of Technology, Hamirpur, Himachal Pradesh   | 259.90   | 303.90  | 197.00  | 319.51                                      | 1080.31               |
| 3)   | B.I.T. Sindi, Dhanbad, Jharkhand   | 255.77   | 312.70  | 187.06  | 321.60                                      | 1077.13               |
| 4)   | Guru Nanak Dev Engineering College, Ludhiana, Punjab   | 259.87   | 301.25  | 197.00  | 313.85                                      | 1071.96               |
| 5)   | Sikkim Manipal Institute of Technology, Rangpo, Sikkim   | 249.71   | 295.86  | 196.58  | 323.59                                      | 1065.75               |
| 6)   | K. L. University (Koneru Lakshmaiah Education Foundation), Guntur, Andhra Pradesh                      | 257.20   | 296.36  | 193.20  | 317.19                                      | 1063.95               |

| Rank | Name of institute                           | P: Pvt<br>G: Govt | City           | Selection process (227) | Academic excellence (214) | Personality devt & indl interface (173) | Infrastructure (206) | Placement (180) | Overall score (1,000) |
|------|---|-------------------|----------------|-------------------------|---------------------------|---|----------------------|-----------------|-----------------------|
| 1    | IIT   | G                 | Kharagpur      | 195.5                   | 189.2                     | 134.9                                   | 193.1                | 174.5           | 887.2                 |
| 2    | IIT   | G                 | Delhi          | 207.6                   | 181.5                     | 137.2                                   | 187.9                | 164.7           | 878.9                 |
| 3    | IIT   | G                 | Mumbai         | 203.3                   | 195.4                     | 128.6                                   | 179.0                | 168.1           | 874.4                 |
| 4    | IIT   | G                 | Kanpur         | 199.2                   | 192.7                     | 140.2                                   | 182.8                | 157.7           | 872.6                 |
| 5    | IIT   | G                 | Chennai        | 197.7                   | 187.0                     | 153.9                                   | 163.4                | 159.8           | 861.8                 |
| 6    | IIT   | G                 | Roorkee        | 203.4                   | 189.2                     | 130.6                                   | 174.2                | 161.1           | 858.5                 |
| 7    | IT-BHU                                      | G                 | Varanasi       | 207.1                   | 174.8                     | 140.2                                   | 174.9                | 160.6           | 857.6                 |
| 8    | BITS  | P                 | Pilani         | 192.1                   | 176.3                     | 158.9                                   | 194.2                | 131.9           | 853.4                 |
| 9    | Delhi Technological University              | G                 | Delhi          | 197.7                   | 159.5                     | 140.2                                   | 174.5                | 167.1           | 839.0                 |
| 10   | NIT   | G                 | Tiruchirapalli | 184.0                   | 167.7                     | 128.8                                   | 169.0                | 160.0           | 809.5                 |
| 11   | ISMU  | G                 | Dhanbad        | 170.3                   | 157.8                     | 98.7                                    | 152.2                | 141.5           | 720.5                 |
| 12   | College of Engineering, Anna Univ           | G                 | Guindy         | 165.5                   | 152.9                     | 121.3                                   | 148.3                | 130.2           | 718.2                 |
| 13   | BIT, Mesra                                  | P                 | Ranchi         | 163.6                   | 159.0                     | 99.3                                    | 153.7                | 141.1           | 716.7                 |
| 14   | NIT   | G                 | Surathkal      | 168.4                   | 141.2                     | 115.0                                   | 149.7                | 132.6           | 706.9                 |
| 15   | NIT   | G                 | Warangal       | 164.1                   | 126.1                     | 108.5                                   | 133.8                | 119.0           | 651.5                 |
| 16   | IIIT  | P                 | Hyderabad      | 115.4                   | 145.5                     | 114.7                                   | 130.4                | 129.3           | 635.3                 |
| 17   | NSIT  | G                 | Delhi          | 124.5                   | 131.5                     | 119.1                                   | 124.3                | 127.7           | 627.1                 |
| 18   | IIIT  | G                 | Allahabad      | 156.6                   | 126.8                     | 105.1                                   | 117.2                | 106.5           | 612.2                 |
| 19   | PSG College of Technology                   | P                 | Coimbatore     | 119.9                   | 118.2                     | 119.0                                   | 133.4                | 111.0           | 601.5                 |
| 20   | JNTUH College of Engineering                | P                 | Hyderabad      | 119.8                   | 126.2                     | 111.1                                   | 128.7                | 109.3           | 595.1                 |
| 21   | Manipal Institute of Technology             | P                 | Manipal        | 128.1                   | 123.5                     | 111.3                                   | 127.5                | 97.1            | 587.5                 |
| 22   | NIT   | G                 | Hamirpur       | 149.5                   | 111.7                     | 84.5                                    | 122.8                | 116.6           | 584.1                 |
| 23   | PEC Univ of Tech,<br>College of Engineering | G                 | Chandigarh     | 142.7                   | 126.1                     | 73.0                                    | 122.3                | 109.3           | 573.4                 |
| 24   | College of Engineering                      | G                 | Pune           | 117.3                   | 124.8                     | 107.1                                   | 119.2                | 104.6           | 573.0                 |
| 25   | BIT   | G                 | Sindri         | 149.0                   | 114.2                     | 93.7                                    | 118.9                | 96.0            | 571.8                 |
| 26   | Harcourt Butler Technology Institute        | G                 | Kanpur         | 128.1                   | 117.4                     | 90.1                                    | 106.5                | 118.5           | 560.6                 |
| 27   | Thapar University                           | P                 | Patiala        | 89.0                    | 109.7                     | 95.6                                    | 100.5                | 89.5            | 484.3                 |
| 28   | Institute of Chemical Technology            | G                 | Mumbai         | 94.2                    | 115.3                     | 63.2                                    | 108.5                | 90.0            | 471.2                 |
| 29   | ABV-IIIT                                    | G                 | Gwalior        | 86.2                    | 97.0                      | 88.4                                    | 97.9                 | 95.3            | 464.8                 |
| 30   | Institute of Technology, Nirma Univ         | P                 | Ahmedabad      | 93.0                    | 98.6                      | 81.4                                    | 94.4                 | 94.0            | 461.4                 |
| 31   | University Inst of Engg and Tech            | G                 | Chandigarh     | 95.8                    | 104.3                     | 76.3                                    | 95.9                 | 84.7            | 457.0                 |
| 32   | PES Institute of Technology                 | P                 | Bangalore      | 113.6                   | 84.8                      | 93.8                                    | 69.5                 | 91.9            | 453.6                 |
| 33   | National Institute of Engineering           | P                 | Mysore         | 116.9                   | 96.3                      | 74.5                                    | 87.6                 | 72.9            | 448.2                 |
| 34   | VJTI  | P                 | Mumbai         | 100.4                   | 96.3                      | 71.0                                    | 84.2                 | 83.0            | 434.9                 |
| 35   | Madras Institute of Technology              | G                 | Chennai        | 103.6                   | 74.2                      | 65.0                                    | 76.4                 | 79.4            | 398.6                 |
| 35   | RVCE  | P                 | Bangalore      | 98.4                    | 75.9                      | 76.4                                    | 70.7                 | 77.2            | 398.6                 |
| 37   | Univ College of Engg, Osmania Univ          | G                 | Hyderabad      | 91.2                    | 80.5                      | 69.6                                    | 78.0                 | 66.9            | 386.2                 |
| 38   | S.S.N. College of Engineering               | P                 | Chennai        | 79.0                    | 86.1                      | 66.9                                    | 93.1                 | 58.5            | 383.6                 |
| 39   | SGSITS                                      | G                 | Indore         | 71.5                    | 93.9                      | 69.1                                    | 91.3                 | 54.7            | 380.5                 |
| 40   | Mepco Schlenk Engineering College           | P                 | Sivakasi       | 74.2                    | 81.3                      | 65.3                                    | 100.3                | 55.3            | 376.4                 |
| 41   | Guru Nanak Dev Engineering College          | G                 | Ludhiana       | 97.6                    | 89.3                      | 64.6                                    | 71.0                 | 52.7            | 375.2                 |
| 42   | P.E.S. College of Engineering               | P                 | Mandya         | 105.3                   | 82.5                      | 66.9                                    | 69.7                 | 47.0            | 371.4                 |
| 43   | Chaitanya Bharathi Institute of Tech        | P                 | Hyderabad      | 92.2                    | 86.5                      | 62.5                                    | 75.9                 | 52.7            | 369.8                 |
| 44   | Thiagarajar College of Engineering          | P                 | Madurai        | 71.4                    | 79.9                      | 72.4                                    | 80.6                 | 63.7            | 368.0                 |
| 45   | D.J. Sanghvi College of Engg                | P                 | Mumbai         | 69.6                    | 94.8                      | 82.9                                    | 72.1                 | 47.8            | 367.2                 |
| 46   | Amrita School of Engineering                | P                 | Coimbatore     | 65.7                    | 74.6                      | 73.6                                    | 82.4                 | 70.3            | 366.6                 |
| 47   | Govt Model Engineering College              | G                 | Kochi          | 83.9                    | 72.3                      | 57.1                                    | 65.0                 | 84.9            | 363.2                 |
| 48   | Govt College of Engineering                 | G                 | Amravati       | 80.3                    | 76.7                      | 68.5                                    | 70.2                 | 66.7            | 362.4                 |
| 49   | MIT College of Engineering                  | P                 | Pune           | 57.8                    | 85.5                      | 64.6                                    | 73.4                 | 78.6            | 359.9                 |
| 50   | BMS Institute of Technology                 | P                 | Bangalore      | 105.4                   | 66.4                      | 58.5                                    | 60.5                 | 66.7            | 357.5                 |



## **Annexure - XIX**

### **(VII) RENOWNED ALUMNI OF PEC UNIVERSITY OF TECHNOLOGY**

Names of renowned alumni along with outstanding contributions in their chosen professions.

1. **Awtar Singh** - Renowned Geotech Consultant, Los Angeles; B.E Civil (1949)
2. **Harjinder Singh Khurana**- Retired Engineer-In-Chief, P.S.E.B , B.E. Electrical (1961)
3. **Vijay K Dhir** - Dean-School of Engineering and Sciences, UCLA; B.E Mechanical (1965)
- 4.
5. **IIMS RANA** - CHAIRMAN RAILWAY BOARD, B. E. Civil (1965)
6. **Monte Ahuja** - Founder, Chairman & CEO, Transtar Industries; B.E. Mechanical (1968)
7. **Rajinder Singh Manhas** - Seattle Schools Superintendent; B.E. Aeronautical (1971)
8. **Sunil Saigal** - Interim Dean, College of Engineering, Professor and Chairman at Department of Civil & Environmental Engineering, University of South Florida; B.E. Civil (1978)
9. **Jaspal Bhatti** - Satirist, comedian, film-maker; B.E. Electrical (1978)
10. **Raman Sud** - Vice President of Engineering, OATSystems; B.E. E&EC (1981)
11. **Kalpna Chawla** - Space Shuttle Columbia Astronaut; B.E. Aeronautical (1982)
12. **Remi Kaler** also known as Remi Clair- North American Actor; B.E.Civil (1984)
13. **Digvijay Chauhan** - Co-Founder and CTO of AskMe Corporation; B.E. E&EC (1989)
14. **Kanwalinder Singh** - President, QUALCOMM India; B.E. E&EC
15. **Akhil Verma** - CEO, S J Edutech (P) Ltd & President - Fastrack Computing Limited; B.E. Production (2002).
- 16.
17. **Sanjay Gupta** - Senior Vice President & Chief Information Officer, Heidrick & Struggles International
18. **Vivek Mehra** - Co-founded Cobalt Networks in 1996. Currently, partner of VC firm August Capital
19. **K Paul Singh** - Co-founder, Primus Telecom
20. **Sonia Bhanot** - Ex-President & CEO, Verano
21. **Arun Gupta** - Founder & CEO, NeuVis, which was later acquired by Rational.
20. **Steve Sanghi** - Chairman, Chief Executive Officer and President, Microchip Technology Inc.

21. **Dr. Ramesh Gupta**- Fellow IEEE, Managing Director, COMSAT Laboratories (1995-2001), Vice President, AMCOM, B. E. E & EC (1974)
22. **Chander Mohan**, Former Vice Chairman PTL, B.E. Mechanical (1953)
23. **Satish Dhawan**, ISRO
24. **Romi Malhotra**, Head, Dell Computers, India
25. **Sanjeev Aggarwal**, Head, IBM Daksh, Gurgaon
26. **Rakesh Nath**, Chairman, Central Electricity Authority, New Delhi
27. **Jarnail Singh**, Chief Secretary, Govt. of India
28. **Dr. Satish Kumar**, Distinguished Scientist & Chief Controller R&D (Technology Management) DRDO, B.E. Mechanical.
29. **Miss Vanya Mishra** was crowned the winner of Femina Miss India on March 30, 2012, B.E. Electrical Engineering 2014.
30. **Dr Akshai Aggarwal** Vice Chancellor, Gujarat Technological University, B.E. Electrical Engineering 1964.

## CONSULTANCY RECORDS FOR THE YEAR 2010-2011

| Ref. No. | Type of Project | Agency  | Deptt.      | PI's Name          | Project Title  |
|----------|-----------------|---|-------------|--------------------|--|
| 1910     | Const.          | Executive Engineer, Central Works Division, PWD B&R Br. Roopnagar.  | Civil       | Prof. Umesh Sharma | 4-laning project of Desumahra to Kharar of NH-21 (Conducting Job mix formula)                        |
| 1911     | Const.          | Executive Engineer, Central Works Division, PWD B&R Br. Roopnagar.  | Civil       | Prof. Umesh Sharma | 4-laning project of Desumahra to Kharar of NH-21 (Conducting Job mix formula)                        |
| 1912     | Const.          | Sub. Divisional Engineer, Sub Division No. VIII, HUDA, Panchkula  | Civil       | Prof. P. K. Gupta  | Consultancy for surajpur to Nalagarh road & allied works   |
| 1913     | Const.          | M/s Eco Protection Engineers Pvt. Ltd, Plot No. 943, 54th street, TVS Colony, Anna Nagar, Chennai                         | Civil       | Prof. S.K Singh    | Vetting of design calculation of Foundation & Structure  |
| 1914     | Const.          | M/s IL&FS Ecosmart Limited, No 403/404, B- Wing, Mangalya, Off Marol Maroshi Road, Marol Andheri (East), Mumbai – 400 059 | Dir. Office | Prof. Manoj Datta  | Consultancy services for scientific closure of dumping ground site located at Uruli/Fursungi in Pune |
| 1915     | Testing         | Executive Engineer- D, Municipal Cooperation Ludhiana   | Civil       | Prof. Umesh Sharma | Checking of Bitumen Content  |
| 1916     | Testing         | Executive Engineer- D, Municipal Cooperation Ludhiana   | Civil       | Prof. Umesh Sharma | Checking of Bitumen Content  |
| 1917     | Testing         | Assistant Engineer, Housing Board Haryana, Panchkula  | Civil       | Prof. Anita Khanna | Testing of Bricks sample   |
| 1918     | Testing         | Sub. Divisional Engineer, M.C.P.H Sub Div. No. 18 Chandigarh  | Civil       | Prof. N.P. Devgan  | Testing of Bricks sample   |

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|------|---------|---|----------|--------------------|---|
| 1919 | Const.  | M/s President/Construction Committee, Distt. Bar Association, Fatehgarh Sahib.    | Civil    | Prof. N.P. Devgan  | Checking of Structural Design of Drawings of Lawyers Chamber in J.C.C Fatehgarh Sahib.                                      |
| 1920 | Testing | Sub Divisional Officer, Project Sub Div. No. 1 Panchkula                          | Civil    | Prof. Roshan Lal   | Test of cement sample taken from store at site of Kaushalya Dam   |
| 1921 | Testing | Sub Divisional Officer, Project Sub Div. No. 1 Panchkula                          | Civil    | Prof. Roshan Lal   | Test of cement sample taken from store at site of Kaushalya Dam   |
| 1922 | Testing | Assistant Engineer, Housing Board Haryana, Panchkula                              | Civil    | Prof. Roshan Lal   | Testing of Brick sample.  |
| 1923 | Const.  | Executive Engineer- 11, Municipal Cooperation Gurgoan                             | Civil    | Prof. Roshan Lal   | Mix Design formula of RMC, M- 30 with 400 kg Cement   |
| 1924 | Const.  | Sub. Divisional Engineer, Roads Sub Div. No. 1 Chandigarh                         | Civil    | Prof. Umesh Sharma | Providing and laying 25mm thick SDBC on V-6 road in Sector 22-B, Chandigarh   |
| 1925 | Const.  | Semi – Conductor Laboratory, Department of Space, Government of India             | Civil    | Prof. Roshan Lal   | Checking of design of steel platform of size 4X4X7mt for structural soundness and stability.                                |
| 1926 | Const.  | Semi – Conductor Laboratory, Department of Space, Government of India             | Civil    | Prof. Roshan Lal   | Assesment of structural soundness of R.C.C slab wafer fabrication building facility Building                                |
| 1927 | Const.  | Semi – Conductor Laboratory, Department of Space, Government of India             | Civil    | Prof. Roshan Lal   | Proof checking of Structural drawings of Sub-Station and Under Ground Reservoir in SCL Housing Complex, Sector – 71, Mohali |
| 1928 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali   | Civil    | Prof. N.P. Devgan  | Vetting of structural design/drawings for 4 no sites in Haryana.  |
| 1929 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali   | Civil    | Prof. N.P. Devgan  | Counter Checking of structure of multipurpose hall for Govt. College at Kalka (Pkl)   |
| 1930 | Testing | Ext. Engg., HUDA, Vigilance Cell, HUDA Office Building, Sec-6, Panchkula, Haryana | App. Sci | Prof. Prem lata    | Testing samples of Cement & Concrete  |

|      |         |  |             |                     |  |
|------|---------|--|-------------|---------------------|--|
| 1931 | Const.  | M/s Hydrotech Paryavaran (India) Pvt. Ltd. F- 31, Indl. Area, Phase-VIII, Mohali   | Civil       | Prof. Sarita Singla | Checking Structural Design of Sewage Treatment Plant   |
| 1932 | Const.  | Executive Engineer, Roads Sub Div. No. 1 Chandigarh  | Civil       | Prof. N.P. Devgan   | Vetting of structural drawings for the construction of community center in Sector – 22 B, Chandigarh |
| 1933 | Testing | Ext. Engg., HUDA, Vigilance Cell, HUDA Office Building, Sec-6, Panchkula, Haryana  | App. Sci    | Prof. Prem lata     | Testing samples of Cement & Concrete for DPC and Cement Sand mortar for Brick work.                  |
| 1934 | Testing | Sub. Divisional Engineer, Project Sub Div. No. 1 Panchkula   | Civil       | Prof. Roshan Lal    | Testing of Cement Sample   |
| 1935 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali  | Civil       | Prof. N.P. Devgan   | Counter Checking of building structure of Tehsil building at Gharaunda                               |
| 1936 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali  | Civil       | Prof. N.P. Devgan   | Counter Checking of building structure of Dispensary at Majjesar                                     |
| 1937 | Const.  | M/s Flora Udyog, 3221/27 D, Chandigarh   | Civil       | Prof Sarita Singla  | Design of 10.80 Lac water storage tank for the scheme(LWSS Sh. Naina devi ji)                        |
| 1938 | Const.  | M/s Flora Udyog, 3221/27 D, Chandigarh   | Civil       | Prof Shakti Arora   | Design checking of Sh. Naina Devi Ji ( site- LNSS of Sh. Naina Devi Ji C/o 3 MLD NTP at Kot.)        |
| 1939 | Const.  | M/s Starta Geo systems (India) Pvt. Ltd. Mumbai - 400011   | Dir. Office | Prof. Manoj Datta   | Segmental retaining wall at Surat Dahisar Road (NH-8)  |
| 1940 | Const.  | Chief Vigilance Officer, Govt. of Punjab, Department of Local Government, Pb. (Vigilance cell) SCO 131-32, Sec-17/C, Chd | Civil       | Prof. Umesh Sharma  | Collecting and testing of samples of development works at Municipal Corporation Ludhiana             |
| 1941 | Const.  | Sub. Divisional Engineer, Roads Sub Div. No. 1 M.C Chandigarh  | Civil       | Prof. Umesh Sharma  | Providing and laying 25mm thick SDBC behind Bata & Empire parking in Sector – 17 Chandigarh.         |
| 1942 | Testing | Ext. Engg., HUDA, Vigilance Cell, HUDA Office Building, Sec-6, Panchkula, Haryana  | App. Sci    | Prof. H. Kaur       | Testing samples of precast cement, concret   |

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|------|---------|---|----------|---------------------|---|
| 1943 | Testing | M/s Punjab Construction Company, M-555, Guru Harkrishan Nagar - Delhi                       | Civil    | Prof. Roshan Lal    | Testing of Pavers   |
| 1944 | Testing | M/s Engineering Projects (India) Ltd, ICD Projects, Baddi – H.P                             | Civil    | Prof. N.P. Devgan   | Testing of Pavers – M-30  |
| 1945 | Const.  | M/s Puri Oil Mills Ltd, 302, Jyoti Shikhar, 8, District Centre, Janak Puri, N. Delhi-110058 | Civil    | Prof. Roshan Lal    | Vetting of Structure drawings of VR Bridge and New Fall Structure                           |
| 1946 | Testing | Ext. Engg., HUDA, Vigilance Cell, HUDA Office Building, Sec-6, Panchkula, Haryana           | Civil    | Prof. Roshan Lal    | Testing for determination of grading of stone aggregate and sand                            |
| 1947 | Const.  | M/s Housefed Punjab, S.C.O – 150-51-52, Sector- 34-A, Chandigarh                            | Civil    | Prof. N.P. Devgan   | Design mix of M-20 & M-25 for const of cooperative housing complex at Banur                 |
| 1948 | Const.  | M/s Races Engineering Services, SCO – 186- 188, Third Floor, Sec – 17/C, Chandigarh         | Civil    | Prof. Sarita Singla | Vetting of structure drawings of flats of Shiva Real Estate at Chajju Majra Road, Kharar    |
| 1949 | Const.  | M/s Anil Kumar Gupta, Engineers & Contractors, SCO- 64, Sector – 40/C, Chd.                 | Civil    | Prof. Anita Khanna  | Vetting of drawings and design of bridge  |
| 1950 | Const.  | Sub. Divisional Engineer, Roads Sub Div. No. 6 M.C Chandigarh                               | Civil    | Prof. Roshan Lal    | Structural design of building work  |
| 1951 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 Chandigarh                                   | Civil    | Prof. Roshan Lal    | Testing of crushing strength of cubes   |
| 1952 | Const.  | Executive Engineer, Milkfed Punjab, SCO – 153-154, Sector – 34-A, Chandigarh                | Civil    | Prof. Shakti Arora  | Inspection/Consultancy for UASB system installed at ETP for Verka Milk Plant, Mohali        |
| 1953 | Const.  | Executive Engineer, Provl. Division, PWD B&R SBS Nagar                                      | Civil    | Prof. Umesh Sharma  | Job mix formula for 25mm thick SDBC for the work of upgradation of Balachaur to Bunga Sahib |
| 1954 | Testing | Sub. Divisional Engineer, M.C.P.H Sub Div. No. 13, Chandigarh                               | App. Sci | Prof. Prem lata     | Testing of sample of Brick sewer line near Beant Singh Memorial Sec-42, Chandigarh          |

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|------|---------|--|----------|--------------------|---|
| 1955 | Const.  | M/s Emaar MGF Land Limited   | Civil    | Prof. P. K. Gupta  | Consultancy assistance in connection with design, construction and quality assurance of internal roads of Mohali Hills        |
| 1956 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali                              | Civil    | Prof. N.P. Devgan  | Vetting of Structural Design / Drawings for 3 No. Sites in Haryana  |
| 1957 | Const.  | M/s Continental Foundations, H.NO – 1059, Sector – 43, Chandigarh      | Civil    | Prof. N.P. Devgan  | Structural Design for commercial building of Plot No – 24A, Mall Road, Amritsar   |
| 1958 | Const.  | M/s National Engineering Projects Consultants, SCO 134, Sec- 28/D, Chd | Civil    | Prof. Roshan Lal   | Proof Checking of HUDA building in Sector – 21, U.E at Jagadhari  |
| 1959 | Testing | Sub. Divisional Engineer, Sub Division No. 3, HUDA Panchkula           | Civil    | Prof. Roshan Lal   | Testing of Cubes  |
| 1960 | Const.  | Executive Engineer- (D) B&R, Municipal Cooperation Ludhiana            | Civil    | Prof. Umesh Sharma | Checking of Bitumen Contents  |
| 1961 | Const.  | Sub. Divisional Engineer, Roads Sub Div. No. 6 M.C Chandigarh          | Civil    | Prof. Umesh Sharma | Checking of Bitumen Contents for widening and strengthening of main road from DIC to fire Station Indl Area Ph-II, Chandigarh |
| 1962 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali                              | Civil    | Prof. N.P. Devgan  | Counter Checking of Building Structure of Govt. High School, Mouli Jagran U.T   |
| 1963 | Testing | Sub. Divisional Engineer, Sub Division No. 3, HUDA Panchkula           | Civil    | Prof. Roshan Lal   | Testing of Cubes  |
| 1964 | Testing | Chief Engineer, Municipal Corporation, Chandigarh                      | App. Sci | Prof. Prem lata    | Testing of Concrete Samples   |
| 1965 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali                              | Civil    | Prof. N.P. Devgan  | Counter Checking of Design of Admin Block of Polytechnic, Manesar   |

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|------|---------|---|--------|--------------------|--|
| 1966 | Const.  | Sub. Divisional Officer, Project Sub Division Panchkula   | Civil  | Prof. R.R Singh    | Testing of Impervious materials taken from borrows area near village Khatoli.  |
| 1967 | Const.  | Sub. Divisional Officer, Project Sub Division No- 1, Panchkula                                      | Civil  | Prof. R.R Singh    | Construction Materials i.e Sand, Filter, Impervious Materials and Cement etc to be used in construction of Kaushalya Dam |
| 1968 | Const.  | M/s Puri Oil Mills Ltd, 302, Jyoti Shikhar, 8, District Centre, Janak Puri, N. Delhi-110058         | Civil  | Prof. Roshan Lal   | Vetting of Structure drawings of 2 X 700 KW MHP Khukhni & Mussapur   |
| 1969 | Const.  | Executive Engineer, Punjab Mandi Board, Chandigarh  | Elect. | Prof. B. Singh     | Evaluation & Vetting of Lighting Design  |
| 1970 | Const.  | M/s Syal & Associates, F-91, Ph.7, Mohali   | Civil  | Prof. N.P. Devgan  | Vetting of Structure Drawings/Design for 8 nos sites in Haryana  |
| 1971 | Testing | M/s Indian oil Corporation Ltd.   | Civil  | Prof. Roshan Lal   | Testing of Pavers  |
| 1972 | Const.  | Executive Engineer, Const. Div. No. – 2, PWD (B&R) - Kapurthala                                     | Civil  | Prof. Roshan Lal   | Design Mix for M-20 & M – 25 grade pumpable Concrete with OPC Cement   |
| 1973 | Testing | M/s Garcha Cement Tiles, Chamkaur Sahib - Ropar   | Civil  | Prof. Roshan Lal   | Testing of Pavers – 2 Samples  |
| 1974 | Const.  | Confidential  | TPO    | Prof. K.K Garg     | Providing Question bank for examination  |
| 1975 | Testing | Engineer-in-Chief Haryana, Public Health Engineering Department, Bay No 13-18, Sector -4, Panchkula | Civil  | Prof. Roshan Lal   | Testing of Samples of Bricks   |
| 1976 | Const.  | M/s Deepak Builders, Near Lodhi Club, Ludhiana  | Civil  | Prof. N.P. Devgan  | Construction of Flyover Bridge across Pratap Chowk Flyover at Ludhiana   |
| 1977 | Const.  | Natioanl Highways Authority of India, 135, Guru Amar Dass Nagar, Jalandhar                          | Civil  | Prof. Tripta Goyal | Short term improvement & routine maintenance of Jalandhar Bhogpur  |



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|------|---------|---|----------|--------------------|---|
| 1978 | Const.  | Ext. Engg., HUDA, Vigilance Cell, HUDA Office Building, Sec-6, Panchkula, Haryana                   | Civil    | Prof. Tripta Goyal | Testing of samples of Bitumen content                                     |
| 1979 | Testing | Engineer-in-Chief Haryana, Public Health Engineering Department, Bay No 13-18, Sector -4, Panchkula | App. Sci | Prof. H. Kaur      | Testing of samples  |
| 1980 | Testing | Executive Engineer, ME & QC Division, CADA, Haryana   | App. Sci | Prof. H. Kaur      | Testing of samples of Cement  |
| 1981 | Const.  | M/s G.E.T Power Pvt. Ltd, No. 153, Electrical & Electronics Ind. Estate, Perungudi, Chennai         | Civil    | Prof. N.P. Devgan  | Vetting of Structure Drawings/Design                                      |
| 1982 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 Chandigarh   | Civil    | Prof. Roshan Lal   | Testing of concrete cubes   |
| 1983 | Testing | Executive Engineer, ME & QC Division, CADA, Haryana   | Civil    | Prof. Umesh Sharma | Testing of Samples of Bricks  |
| 1984 | Const.  | Chief Administer, HSAM Panchkula (Hr.)  | Elect.   | Prof. Shiv Narayan | Department Exam for in-service Engineers (Civil/Electrical) of HSAM Board |
| 1985 | Const.  | Administrative Officer, HSAM Board, Panchkula   | Civil    | Prof. A.M Kalra    | Department Exam for in-service Engineers (Civil/Electrical) of HSAM Board |
| 1986 | Testing | Executive Engineer, ME & QC Division, CADA, Haryana   | App. Sci | Prof. H. Kaur      | Testing of samples  |
| 1987 | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi                              | Civil    | Prof. R.R Singh    | Vetting of Tower foundation Designs & Drawings additional scope of work   |
| 1988 | Const.  | Sub. Divisional Engineer, Const. Sub Div. No. 12 Chandigarh   | Civil    | Prof. Umesh Sharma | GEO Technical Investigation   |
| 1989 | Testing | ADC, Mini Secretariat, II Floor, Hissar   | App. Sci | Prof. H. Kaur      | Testing of Cement, Sand & Mortar  |

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|------|---------|--|-------------|--------------------|---|
| 1990 | Const.  | Executive Engineer, Provincial Division, PWD B&R Br. Nuh               | Civil       | Prof. S.K. Verma   | Proof Checking of structural drawings of constructing I.T.I at Nuh in Mewat District.                                       |
| 1991 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                   | Civil       | Prof. N.P. Devgan  | Vetting of Structure Drawings/Design for 9 nos sites in Haryana   |
| 1992 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                   | Civil       | Prof. N.P. Devgan  | Vetting of building Structure of Uchana office  |
| 1993 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                   | Civil       | Prof. N.P. Devgan  | Vetting of Structure Drawings for building structure of Radiant Textiles Ltd. Vill – Chounth, Patiala Road, Samana, Patiala |
| 1994 | Const.  | M/s Him Cableways, 57, Industrial Area, Phase – 2, Chandigarh          | Mech.       | Prof. S.K. Mangal  | Technical Consultancy for Aerial Cableway System  |
| 1995 | Const.  | Executive Engineer, Provincial Division No. 1, PWD B&R Br. Rohtak      | Civil       | Prof. P. K. Gupta  | Proof Checking for construction of Bridge over West Jua drain in Rohtak District  |
| 1996 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 Chandigarh              | Civil       | Prof. Umesh Sharma | Checking of Bitumen Contents for widening of V3 road in Sec 15A, B,C, D Chandigarh  |
| 1997 | Testing | Municipal Council, Rajpura, Patiala                                    | Civil       | Prof. Roshan Lal   | Testing of coarse aggregate C/O Basera Project (Housing) Block 'A' at Rajpura   |
| 1998 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 M.C Chandigarh          | Civil       | Prof. Roshan Lal   | Testing of concrete cubes   |
| 1999 | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi | Civil       | Prof. R.R. Singh   | Vetting of Tower foundation Designs & Drawings additional scope of work   |
| 2000 | Const.  | M/s Starta Geo systems (India) Pvt. Ltd. Mumbai - 400011               | Dir. Office | Prof. Manoj Datta  | RE retaining wall foundation Design / Ground Improvement for Surat – Dahisar  |
| 2001 | Testing | M/s Manu International 164, Ind. Area, Ph – 1, Chandigarh              | Civil       | Prof. Roshan Lal   | Testing of Pavers   |

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|------|---------|---|-------------|---------------------|---|
| 2002 | Const.  | M/s Peskon, PKS Infra Engineers, Ltd, 4B- Mahaluxmi Square, 2nd floor, Sec 12, Vasundhra, Ghaziabad (U.P) | Civil       | Prof. P. K. Gupta   | Proof checking of design  |
| 2003 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali  | Civil       | Prof. N.P. Devgan   | Vetting of Structural Design/Drawings for 6 Nos. sites in Haryana   |
| 2004 | Const.  | Executive Engineer, C.P Div. No. 1, Chandigarh  | Civil       | Prof. P. K. Gupta   | Testing of samples of road crust for Thickness, Bituminous Contents, Density  |
| 2005 | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi                                    | Civil       | Prof. R.R Singh     | Vetting of Tower foundation Designs & Drawings additional scope of work   |
| 2006 | Const.  | M/s Arvind Construction Co. 81-L, Model Town, Panipat   | Civil       | Prof. Roshan Lal    | Checking of Structural Design of OHSR at New Water works, CCS HAU, Hissar   |
| 2007 | Const.  | M/s G.E.T Power Pvt. Ltd, Purugundi, Chennai  | Civil       | Prof. Roshan Lal    | Vetting of Structural Design/Drawings for Foundation of Tower Type TK, Nuhiyanwali, Sirsa   |
| 2008 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 M.C Chandigarh   | Civil       | Prof. Roshan Lal    | Testing of concrete cubes   |
| 2009 | Const.  | Chief Engineer, Thermal Designs, Power Com, Patiala   | Dir. Office | Prof. Manoj Datta   | Consultancy for suggesting the remedial measures to be taken for tackling the problem of sliding of Ash Dyke Bund – I, GHTP, Lehra Mohabat. |
| 2010 | Const.  | District Forum – I , Chandigarh   | Mech.       | Prof. Sushant Samir | Inspection of the Vehicle   |
| 2011 | Const.  | District Forum – I , Chandigarh   | Mech.       | Prof. Sushant Samir | Inspection of the Vehicle   |
| 2012 | Const.  | M/s Tatva Global Environment (Deonar) Limited, 'Uniphos' House, CD Marg, 11th Road, Khar (W), Mumbai      | Dir. Office | Prof. Manoj Datta   | Dump Site Closure and Landfill Design at Deonar, Mumbai   |
| 2013 | Const.  | M/s Flora Udyog, Sabathu Road, Solan (HP)   | Civil       | Prof. Sarita Singla | Structure Design of 3 MLD INTP of LWSS Sh. Naina Devi Ji- under Executive Engineer, PH , Bilaspur (HP)                                      |

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|------|---------|--|----------|---------------------|--|
| 2014 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 M.C Chandigarh                          | Civil    | Prof. Roshan Lal    | Testing of concrete cubes  |
| 2015 | Testing | Sub. Divisional Engineer, Roads Sub Div. No. 8 M.C Chandigarh                          | Civil    | Prof. Roshan Lal    | Testing of concrete cubes  |
| 2016 | Testing | Engineer-in-Chief Haryana, PH Engineering Department, Bay No. 13-18, Sec-4, Punchkula  | Civil    | Prof. Sarita Singla | Testing of samples of Bricks for Compressive Strength  |
| 2017 | Const.  | M/s Dham Consultants, SCO – 358, Sector- 34 A, Chandigarh                              | Civil    | Prof. Sarita Singla | Vetting of Structure Design  |
| 2018 | Const.  | Executive Engineer (C), All India Radio, Doordarshan Complex, Sec – 37 – B, Chandigarh | Civil    | Prof. P. K. Gupta   | Recurrence of severe cracks in transmitter building at DDK Shimla                            |
| 2019 | Testing | Engineer-in-Chief Haryana, PH Engineering Department, Bay No. 13-18, Sec-4, Punchkula  | App. Sci | Prof. Prem Lata     | Testing of Samples   |
| 2020 | Testing | M/s Bharat Bricks Company, Village- Fatehpur, Thesil – Derabassi , Mohali              | Civil    | Prof. Siby John     | Testing of bricks  |
| 2021 | Testing | Sub. Divisional Engineer, Const Sub Div. No. 6 M.C Chandigarh                          | App. Sci | Prof. H. Kaur       | Testing of Cement Mortar for Construction of separate I.T block in G.C.G, Sec-42, Chandigarh |
| 2022 | Testing | Housefed Punjab, SCO-150-52, Sec-34 A, Chandigarh                                      | Civil    | Prof. Roshan Lal    | Testing of cubes for crushing strength of M-25   |
| 2023 | Const.  | Executive Engineer, Patiala MAP Division, CPWD, Patiala                                | Civil    | Prof. Sarita Singla | Design Mix M-25 for Married Accommodation of Defence at Patiala                              |
| 2024 | Const.  | Executive Engineer, Patiala MAP Division, CPWD, Patiala                                | Civil    | Prof. Roshan Lal    | Design Mix M-25 for Married Accommodation of Defence at Patiala                              |
| 2025 | Testing | M/s Rayat –Bahra SCO – 126-27, Sec- 34A, Chandigarh                                    | Civil    | Prof. Sarita Singla | Testing of Concrete Samples  |

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|------|---------|--|----------|--------------------|---|
| 2026 | Const.  | OSD, Vigilance Cell, U.T Chandigarh  | Civil    | Prof. Sovina Sood  | Examining of Samples  |
| 2027 | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi                               | Civil    | Prof. R.R Singh    | Vetting/Proof checking of sites   |
| 2028 | Const.  | Sub. Divisional Engineer, Prov. Sub Div. No. 1 Sahabad   | Civil    | Prof. N.P. Devgan  | Proof Checking of structural Design of Addl. Block of C.H.C at Shahabad (M)                                       |
| 2029 | Const.  | M/s Engineering and Planning Consultants, 241, Somdutt Chambers-II, 9 Bhikaiji Cama Place, New Delhi | Civil    | Prof. S.K Verma    | Proof Checking of Structural Design/Drawings of ROB at Kurukshetra.   |
| 2030 | Const.  | M/s C&C Constructions Ltd., Zirakpur- Parwanoo Project, Chandimandir Cantt                           | Civil    | Prof. Umesh Sharma | Investigate and highlight the reasons for Partial Cracks in DBM layer in Km 44 & 49 on Zirakpur-Parwanoo road     |
| 2031 | Const.  | M/s Mananda Test House, SCF – 17, Kalgidhar Enclave, Zirakpur, Punjab                                | App. Sci | Prof. L. N Sharma  | Consultancy for Petrographic Examination  |
| 2032 | Const.  | Sub. Divisional Engineer, HUDA Sub Div. No. IV Gurgaon   | Civil    | Prof. P. K. Gupta  | Job mix formula of GSB, WMN, DBM & Bituminous Concrete & Kerb M-20  |
| 2033 | Const.  | Sub. Divisional Engineer, Road Sub Div. No. 8 M.C Chandigarh   | Civil    | Prof. Roshan Lal   | Testing of Cubes for Community Center for Daddu Maja, Chandigarh  |
| 2034 | Const.  | M/s Tech Pacific, SCO- 80-82, Sector – 34 A, Chandigarh  | Civil    | Prof. Roshan Lal   | Proof checking and modification of Structural Design and Drawings of group housing building, NAC Zirakpur, Mohali |
| 2035 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil    | Prof. N.P. Devgan  | Counter Checking of Building Structure of Govt. College at Lakanmajra   |
| 2036 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil    | Prof. N.P. Devgan  | Vetting of Structural Design/Drawings for 10Nos roof top sites in Haryana   |
| 2037 | Testing | Sub. Divisional Engineer, Road Sub Div. No. 8 M.C Chandigarh   | Civil    | Prof. Roshan Lal   | Testing of Cubes for Community Center for Daddu Maja, Chandigarh  |

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|------|---------|---|----------|--------------------|--|
| 2038 | Testing | Sub. Divisional Engineer, Road Sub Div. No. 8 M.C Chandigarh                        | Civil    | Prof. Roshan Lal   | Testing of Cubes for Community Center for Daddu Maja, Chandigarh   |
| 2039 | Testing | Sub. Divisional Engineer, HUDA Sub Div. No. 3 Panchkula                             | Civil    | Prof. Roshan Lal   | Testing of Cubes   |
| 2040 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                | Civil    | Prof. N.P. Devgan  | Vetting of IT.I Admin Block & Working block at Vill Kalai Balai, Chandigarh  |
| 2041 | Const.  | Canara Bank, Circle Office, Sector- 34 A, Plot- 1, Chandigarh                       | Civil    | Prof. S.K Verma    | Structural repairs works for banks own Building at No. 1034, Sec- 27B, Chandigarh  |
| 2042 | Const.  | M/s SMC-SBM-Universal (JV), VPO Barmana, Tehsil-Sadar, Distt Bilaspur (H.P)         | Civil    | Prof. Shakti Arora | Hydraulic Design & Drawing of 6.62 MLD WTP   |
| 2043 | Testing | M/s Indian Oil Corp. Ltd., SCO – 35-36, Sec-7, Chandigarh                           | Civil    | Prof. N.P. Devgan  | Testing of Pavers Block  |
| 2044 | Const.  | M/s Bachitter Singh Associates, SCO-20, 2nd Floor, Madhya Marg, Sec 7-C, Chandigarh | Civil    | Prof. N.P. Devgan  | Proof Checking of Structural Strengthening of Rain Water Harvesting Tanks at Rajiv Gandhi Thermal Power Project at Khedar. |
| 2045 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                | Civil    | Prof. S.K Verma    | Counter Checking of Building Structure of Krishi Bhawan & Kisan Club, Rohtak   |
| 2046 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                | Civil    | Prof. S.K Verma    | Counter Checking of Structural Design/Drawings of PG. Block, Multipurpose Hall at Karnal                                   |
| 2047 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                | Civil    | Prof. S.K Verma    | Counter Checking of Building Structure of Govt. College for girls, Rohtak  |
| 2048 | Const.  | National Highways Authority of India, 135, Guru Amar Dass Nagar, Jalandhar          | Civil    | Prof. P. K. Gupta  | Job Mix formula  |
| 2049 | Const.  | Philips India Ltd.  | App. Sci | Prof. Satyandra    | Converting Woodstove into Mutifuel Stove   |

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|------|---------|--|--------|---------------------|---|
| 2050 | Const.  | Philips India Ltd.   | Mech.  | Prof. L.D Garg      | Heat Dissipation in mixer grinder   |
| 2051 | Const.  | Philips India Ltd.   | Mech.  | Prof. Gagdish Kumar | Heat Dissipation in mixer grinder   |
| 2052 | Const.  | Philips India Ltd.   | Metta. | Prof. J.D Sharma    | Motion of Coupler   |
| 2053 | Const.  | Sub. Divisional Engineer, Road Sub Div. No. 3 M.C Chandigarh   | Civil  | Prof. Umesh Sharma  | Checking of Bitumen Content in parking on V4 road Sector 11 Chandigarh  |
| 2054 | Const.  | Sub. Divisional Engineer, Road Sub Div. No. 3 M.C Chandigarh   | Civil  | Prof. Umesh Sharma  | Checking of Bitumen Content for widening of V-5 Road in Sector – 9 Chandigarh                                       |
| 2055 | Const.  | Sub. Divisional Engineer, Provl. Sub Div., Dabwali, PWD B&R  | Civil  | Prof. P. K. Gupta   | Proof checking of two no Bridges  |
| 2056 | Testing | Sub. Divisional Engineer, HUDA Sub Div. No. III, Panchkula   | Civil  | Prof. Roshan Lal    | Testing of cubes  |
| 2057 | Const.  | Milk Fed Punjab, SCO – 153-155, Sector – 34- A, Chandigarh   | Civil  | Prof. Shakti Arora  | Regarding Performance study / Upgradation of existing Effluent Treatment Plants of different Milk Plants of Milkfed |
| 2058 | Testing | Sub. Divisional Officer, Project Sub Div. No. I, Panchkula   | Civil  | Prof. P. K. Gupta   | Test of Undisturbed Soil Sample   |
| 2059 | Const.  | Executive Engineer, HUDA, Division No. 1, Gurgaon  | Civil  | Prof. P. K. Gupta   | Third Party Quality Inspection (TPI) for construction of roads at Gurgaon.  |
| 2060 | Const.  | M/s Consulting Engineers Associates, SCO- 51, 2nd Floor, Swastik Vihar, Mansa Devi Road, Sector – 5, Panchkula | Civil  | Prof. P. K. Gupta   | Proof Checking of design for Bridge at N-Choe.  |
| 2061 | Const.  | M/s Tarun Mathur Structural Consultant, 764, Sector – 8-B, Chandigarh  | Civil  | Prof. S.K Verma     | Proof Checking of Structural Design of Bridges.   |

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| 2062 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan   | Counter Checking of Building Structure of DAC extension, Bathinda                           |
| 2063 | Const.  | M/s Nanu Ram Goyal & Co., 890, Sector – 15, Part II, Gurgaon - 122001                                | Civil | Prof. N.P. Devgan   | Vetting of Structural Design  |
| 2064 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan   | Counter Checking of Building Structure of Administration Block at Nuh, Mehwat               |
| 2065 | Const.  | M/s Races Engineering Services, SCO- 186- 188, Third Floor, Sector 17/C, Chandigarh                  | Civil | Prof. Sarita Singla | Vetting of structure drawings of flats for Shiva Real Estate, at Chajju Majra Road, Kharar. |
| 2066 | Testing | M/s Indian Oil Corp. Ltd., SCO – 35-36, Sec-7, Chandigarh  | Civil | Prof. Roshan Lal    | Testing of pavers Block   |
| 2067 | Const.  | M/s Engineering and Planning Consultants, 241, Somdutt Chambers – II, Bhikaiji Cama Place, New Delhi | Civil | Prof. S.K Verma     | Proof Checking of structural design/drawings of ROB at Ambala                               |
| 2068 | Testing | Sub. Divisional Engineer, HUDA Sub Div. No. 3 Panchkula  | Civil | Prof. Roshan Lal    | Testing of Cubes – M-20   |
| 2069 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan   | Counter Checking of Building Structure of Meditation Hall at Kurukshetra                    |
| 2070 | Const.  | M/s Anil Kumar, Govt. Contractor, Hot Mix Plant, Dhada Khurd   | Civil | Prof. N.P. Devgan   | Design Mix – M-20   |
| 2071 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan   | Counter Checking of Building Structure GCW, Jind  |
| 2072 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan   | Counter Checking of Building Structure of Labour Welfare Commission Panchkula               |
| 2073 | Const.  | M/s SML-SBM- Universal (JV), VPO Barmana, Tehsil Sadar, Distt - Bilaspur (H.P)                       | Civil | Prof. Sarita Singla | Design/Drawings of different storage tanks & 6.62 MLD WTP                                   |



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|------|---------|--|-------------|--------------------|--|
| 2074 | Testing | Sub. Divisional Engineer, MCPH Sub Div. No. 18 Chandigarh              | App. Sci    | Prof. H. Kaur      | To check the durability (chemical analysis of cement mortar) of existing CBD at various location in Chandigarh |
| 2075 | Const.  | Superintending Engineer, Panchayati Raj Circle, Punjab, Chandigarh     | Civil       | Prof. Tripta Goyal | Design/Cost comparison of concrete roads with concrete pavers block roads in villages of the Punjab State      |
| 7276 | Testing | Executive Engineer (Project), for Engineer-in- Chief, Haryana          | Civil       | Prof. Siby John    | Testing of sample of water of water supply at village Ghasera  |
| 2077 | Const.  | Executive Engineer, Public Health Engg. Divn No. 1, Gohana             | Civil       | Prof. S.K Verma    | Checking of Design of Strom Water main Pumping Station in the B.P.S University Khanpur Kalan (Haryana)         |
| 2078 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                   | Civil       | Prof. N.P. Devgan  | Counter Checking of Building Structure of Library Building at Govt College Sampla, Rohtak                      |
| 2079 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                   | Civil       | Prof. N.P. Devgan  | Counter Checking of Building Structure of Lawyers Chamber at Rohtak  |
| 2080 | Const.  | Hospital Engineer (Const.), P.G.I Chandigarh                           | Civil       | Prof. N.P. Devgan  | Proof. Checking of Structure Design of Bachelor Doctors Hostel at PGI Chandigarh                               |
| 2081 | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi | Civil       | Prof. R.R Singh    | Vetting/Proof checking of sites  |
| 2082 | Const.  | Executive Engineer, C.P Division No. 5, Chandigarh                     | Civil       | Prof. N.P. Devgan  | Vetting of Structural Design of Block – E, GMCH, Sector – 32 Chandigarh  |
| 2083 | Testing | M/s Bell Ceramics Ltd., Iron & Steel Market, Sector – 29, Chandigarh   | Civil       | Prof. Roshan Lal   | Testing of Tiles   |
| 2084 | Const.  | Sub. Divisional Engineer, MC Sub Div. No. 2 Chandigarh                 | Civil       | Prof. Anita Khanna | Testing of Tiles   |
| 2085 | Const.  | Executive Engineer, Provl. Div, PWD Haryana, Nairaingarh               | Dir. Office | Prof. Manoj Datta  | Technical advice on Design of approach embankment and protection measures for H.L Bridge.                      |

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| 2086      | Const.  | M/s Gawar Construction Ltd. , DSS-378, Sector – 16-17, Hissar                            | Civil | Prof. P. K. Gupta  | Job Mix formula for Chandimandir Jhallah road in Panchkula district.               |
| 2087      | Const.  | M/s Peskon PKS Infra Engineers Pvt. Ltd., 4B-Mahaluxmi Square, 2nd fl, Sec-12, Ghaziabad | Civil | Prof. P. K. Gupta  | Vetting of Superstructure Drawings   |
| 2082<br>A | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi                   | Civil | Prof. R.R Singh    | Vetting/Proof checking   |
| 2083<br>A | Const.  | M/s Omaxe Infrastructure and Constuction Ltd. 10, L.S.C, Kalkaji, New Delhi              | Civil | Prof. S.K Singh    | Soil testing of sample for Soil classification, MDD, OMC & CBR                     |
| 2084<br>A | Testing | Department of Local Government, Punjab, SCO- 131-132, Sector- 17 C, Chandigarh           | Civil | Prof. Umesh Sharma | Sampling and testing of samples of the works of road construction at MC, Jalandhar |
| 2085<br>A | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                     | Civil | Prof. N.P. Devgan  | Vetting of Structure Design  |
| 2086<br>A | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                     | Civil | Prof. N.P. Devgan  | Counter Checking of Structure Design   |
| 2087<br>A | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                     | Civil | Prof. N.P. Devgan  | Vetting of Structure Design  |
| 2088      | Const.  | Hospital Engineer (Const.), P.G.I Chandigarh   | Civil | Prof. N.P. Devgan  | Proof. Checking of Structure Design  |
| 2089      | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                                     | Civil | Prof. N.P. Devgan  | Counter Checking of Structure Design   |
| 2090      | Testing | Sub. Divisional Engineer, HUDA Sub Div. No. 3 Panchkula                                  | Civil | Prof. Roshan Lal   | Testing of Cubes   |
| 2091      | Testing | Executive Engineer, Panchayati Raj, Public Works, Panchkula                              | Civil | Prof. Roshan Lal   | Testing of Pavers Block  |

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|------|---------|---|----------|----------------------|---|
| 2092 | Const.  | M/s Omaxe Infrastructure and Constuction Ltd. 10, L.S.C, Kalkaji, New Delhi                         | Civil    | Prof. Roshan Lal     | Mix Design  |
| 2093 | Testing | Sub. Divisional Engineer, HUDA Sub Div. No. 3 Panchkula   | Civil    | Prof. Roshan Lal     | Testing of Cubes  |
| 2094 | Const.  | Executive Engineer, C.P Div. No. 1, Chandigarh  | Civil    | Prof. Sarita Singla  | Design of UGR   |
| 2095 | Const.  | Divisional Engineer (C-II), GMADA, Mohali   | Civil    | Prof. Umesh Sharma   | Strengthening and Widening of Sector - 54/55. 58/59, and 72/73 road   |
| 2096 | Const.  | M/s Hydrotech Paryavaran (India) Pvt. Ltd. F- 31, Indl. Area, Phase-VIII, Mohali                    | Civil    | Prof. Shakti Arora   | Design, Conduction Erection, Commissioning, Trial Run of Sewage Treatment Plant on Turnkey                    |
| 2097 | Const.  | M/s Jindal Consortium, SCF- 9, Vikas Vihar, Ambala City.  | Civil    | Prof. S.K Verma      | Proof. Checking of Structural Design/Drawings   |
| 2098 | Const.  | Superintending Engineer, (S) B&R, Municipal Corporation, Ludhiana                                   | Civil    | Prof. P. K. Gupta    | Proof. Checking of Structural Drawings  |
| 2099 | Const.  | M/s Deepak Builders, Near Lodhi Club, Ludhiana  | Civil    | Prof. N.P. Devgan    | Proof. Checking of Design/Drawings for Construction of Bridge across Pratap Chowk Flyover at Ludhiana Flyover |
| 2100 | Const.  | M/s Omaxe Infrastructure and Constuction Ltd. 10, L.S.C, Kalkaji, New Delhi                         | Civil    | Prof. S.K Singh      | GSB testing of sample for Gradation Analysis, MDD, OMC & CBR  |
| 2101 | Testing | Engineer-in-Chief Haryana, Public Health Engineering Department, Bay No 13-18, Sector -4, Panchkula | App. Sci | Prof. Harminder Kaur | Testing of sample for Cement sand mortar  |
| 2102 | Const.  | M/s Jindal Consortium, SCF- 9, Vikas Vihar, Ambala City.  | Civil    | Prof. P. K. Gupta    | Proof Checking of Structural Design/Drawings  |
| 2103 | Const.  | M/s Jindal Consortium, SCF- 9, Vikas Vihar, Ambala City.  | Civil    | Prof. P. K. Gupta    | Proof Checking of Structural Design/Drawings  |

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|------|---------|--|-------|---------------------|--|
| 2104 | Const.  | M/s Sheltera Consultants, 74, F.F, South Patel Nagar Market, New Delhi | Civil | Prof. R.R Singh     | Vetting/Proof checking of 51 sites                                 |
| 2105 | Const.  | State Consumer Dispute Redressal Commission, Chandigarh                | Mech. | Prof. Sushant Samir | Inspection/Testing of Vehicle                                      |
| 2106 | Const.  | M/s Amarnath Aggarwal Constructions Pvt. Ltd.,                         | Civil | Prof. P. K. Gupta   | Proof Checking of Design   |
| 2107 | Testing | Sub-Divisional Engineer, Sub-Div. No. III, HUDA, Panchkula             | Civil | Prof. Roshan Lal    | Testing of Cubes   |
| 2108 | Testing | Sub-Divisional Engineer, Sub-Div. No. III, HUDA, Panchkula             | Civil | Prof. Roshan Lal    | Testing of Cubes M-20  |
| 2109 | Testing | Sub-Divisional Engineer, Water Supply & Sanitation, Derabassi          | Civil | Prof. N.P. Devgan   | Testing of Cubes   |
| 2110 | Testing | Sub-Divisional Engineer, Sub-Div. No. III, HUDA, Panchkula             | Civil | Prof. Roshan Lal    | Testing of Cubes M-20  |
| 2111 | Testing | Sub-Divisional Engineer, Road -8, Sector – 17, M.C Chandigarh          | Civil | Prof. Roshan Lal    | Testing of material for construction of community centre in Dhanas |
| 2112 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali                   | Civil | Prof. N.P. Devgan   | Vetting of Structural Design/Drawings                              |
| 2113 | Const.  | State Consumer Dispute Redressal Commission, Chandigarh                | Mech. | Prof. Sushant Samir | Inspection/Testing of Vehicle                                      |
| 2114 | Testing | M/s Indian oil Corporation Ltd.  | Civil | Prof. Sarita Singla | Testing of Pavers  |
| 2115 | Testing | Sub-Divisional Engineer, Road -8, Sector – 17, M.C Chandigarh          | Civil | Prof. Roshan Lal    | Testing of material for construction of community centre in Dhanas |

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|------|---------|--|-------|-------------------|--|
| 2116 | Testing | Sub-Divisional Engineer, Road -8, Sector – 17, M.C Chandigarh  | Civil | Prof. Roshan Lal  | Testing of material for construction of community centre in Dadumajra Colony             |
| 2117 | Const.  | M/s Bachittar Singh Associates, SCO-20, 2nd Floor, Sector – 7C, Chandigarh   | Civil | Prof. N.P. Devgan | Proof Checking of Structural Design/Drawings   |
| 2118 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan | Vetting of Structural Design/Drawings  |
| 2119 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan | Vetting of Structural Design/Drawings  |
| 2120 | Const.  | M/s ARSS Infrastructure Project Ltd. 141, SBI Colony Pachim Vihar, New Delhi   | Civil | Prof. N.P. Devgan | Vetting of Structural Drawings of Aerocity Storm Water RCC Box Section                   |
| 2121 | Const.  | M/s Jindals Consortium, SCF- 9, Vikas Vihar, Ambala City   | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design/Drawings   |
| 2122 | Const.  | Sub Divisional Engineer, Provincial Sub Division No. 6, PWD(B&R), Ambala Cantt   | Civil | Prof. R.R Singh   | Testing for CBR of Sub Grade Soil  |
| 2123 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Ph.7, Mohali   | Civil | Prof. N.P. Devgan | Counter Checking of Structural Drawings of Law college, Gurukul, Khanpur                 |
| 2124 | Const.  | M/s Marc Technocrats Pvt. Ltd., Marc House, SCO – 1, Sector – 6-7 Dividing Road, Opp Devi Lal Park, Bahadurgarh, Haryana | Civil | Prof. P. K. Gupta | Proof Checking of three Bridges  |
| 2125 | Const.  | M/s National Dental College, Derabassi, Punjab   | Mech. | Alkesh Manna      | Surf-Crem 130A   |
| 2126 | Testing | Engineer-in-Chief Haryana, Public Health Engineering Department, Bay No 13-18, Sector -4, Panchkula                      | Civil | Prof. S.K Verma   | Testing of Samples of Bricks   |
| 2127 | Const.  | M/s Tech-Pacific Structural Consultants, SCO- 80-82, Sector – 34 A , Chandigarh  | Civil | Prof. Roshan Lal  | Proof Checking and modification of Structural Design and Drawings Pavilion 1500 Capacity |

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|------|---------|--|-------|--------------------|---|
| 2128 | Const.  | Haryana Vidyut Prasaran Nigam Ltd., Shakti Bhawan, Sector – 6, Panckula  | Civil | Prof. N.P. Devgan  | Testing of Material   |
| 2129 | Testing | Officer on Special Duty, Vigilance Cell, U.T Chandigarh  | Civil | Prof. N.P. Devgan  | Testing of Samples  |
| 2130 | Const.  | M/s Tech-Pecific Structural Consultants, SCO- 80-82, Sector – 34 A , Chandigarh  | Civil | Prof. Roshan Lal   | Proof Checking and modification of Structural Design and Drawings Pavilion 1500 Capacity                                    |
| 2131 | Const.  | Executive Engineer, Provl. Div. No -1, PWD B&R Br. Kaithal   | Civil | Prof. S.K Verma    | Proof Checking of Structural Design/Drawings of Distt. Library at Kaithal.  |
| 3132 | Const.  | Chief Vigilance Officer, Govt. of Punjab, Department of Local Government, Pb. (Vigilance cell) SCO 131-32, Sec-17/C, Chd | Civil | Prof. Umesh Sharma | Testing of Samples of Sewer under execution at Jalandhar  |
| 2133 | Const.  | M/s Jindal Consortium, SCF- 9, Vikas Vihar, Ambala City.   | Civil | Prof. P. K. Gupta  | Proof. Checking of Bridge   |
| 2134 | Const.  | M/s Jindal Consortium, SCF- 9, Vikas Vihar, Ambala City.   | Civil | Prof. P. K. Gupta  | Proof. Checking of Bridge   |
| 2135 | Const.  | Executive Engineer, Provincial Division PWD(B&R), SAS Nagar  | Civil | Prof. N.P. Devgan  | Testing of Cubes  |
| 2136 | Const.  | Executive Engineer, Provl. Div., PWD B&R SAS Nagar Mohali  | Civil | Prof. N.P. Devgan  | Proof Checking of Structural Design/Drawings  |
| 2137 | Const.  | Executive Engineer, Provl. Div. PWD B&R Br. Narnaul  | Civil | Prof. P. K. Gupta  | Widening & Strengthening of Mohindergarh-Satnali-Loharu road  |
| 2138 | Testing | Officer on Special Duty, Vigilance Cell, U.T Chandigarh  | Civil | Prof. Anita Khanna | Examination of Samples  |
| 2139 | Const.  | Executive Engineer, Roads Sub Div. No. 1 Chandigarh  | Civil | Prof. S.K Verma    | Proof checking of Structural Drawings/Designs for the work of construction of Community Centre in Sector – 27/B, Chandigarh |

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|------|---------|--|-----------|--------------------|---|
| 2140 | Testing | OSD, Vigilance Cell, U.T Chandigarh                                | App. Sci. | Prof. V. Singh     | Testing of Cement Concrete & Mortar samples                       |
| 2141 | Testing | M/s Associate Concrete, Mubarkpur, Haryana                         | Civil     | Prof. Roshan Lal   | Testing the compressive strength of cylindrical cube of M-20 Mix. |
| 2142 | Const.  | Executive Engineer, Central Works Division, PWD B&R Br. Roopnagar. | Civil     | Prof. Umesh Sharma | Job mix formula for Abohar Bye Pass.                              |
| 2143 | Testing | OSD, Vigilance Cell, U.T Chandigarh                                | App. Sci. | Prof. H. Kaur      | Testing of Cement Concrete & Mortar samples                       |
| 2144 | Const.  | Executive Engineer, Central Works Division, PWD B&R Br. Roopnagar. | Civil     | Prof. Umesh Sharma | Job mix formula for Abohar Bye Pass.                              |
| 2145 | Const.  | Executive Engineer, Prov. Sub Division No. 1, Ambla Cantt.         | Civil     | Prof. S.K Verma    | Mix Design M-40   |

## CONSULTANCY RECORDS FOR THE YEAR 2011-2012

| Ref. No. | Type of Project | Agency   | Deptt.   | PI's Name           | Project Title   |
|----------|-----------------|--|----------|---------------------|---|
| 2146     | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                   | Civil    | Prof. P. K. Gupta   | Proof. Checking of Bridge design                                  |
| 2147     | Const.          | Executive Engineer, Electrical Division No. 2, Chandigarh                    | Civil    | Prof. S.K Verma     | Providing flood lights in cricket stadium Sector – 16, Chandigarh |
| 2148     | Const.          | M/s Sheltera Consultants Pvt. Ltd, 580, Rishi Nagar, Shakur Basti, New Delhi | Civil    | Prof. R.R Singh     | Vetting/Proof checking of 5 sites                                 |
| 2149     | Const.          | State Consumer Dispute Redressal Commission, Chandigarh                      | Mech.    | Prof. Sushant Samir | Inspection/Testing of Vehicle                                     |
| 2150     | Const.          | M/s Sheltera Consultants Pvt. Ltd, 580, Rishi Nagar, Shakur Basti, New Delhi | Civil    | Prof. R.R Singh     | Vetting/Proof checking of 5 sites                                 |
| 2151     | Const.          | M/s Chicago Construction Co. 68, Sector – 9-A, Chandigarh                    | Civil    | Prof. Sarita Singla | Design Mix – M-20, M-25, M-30                                     |
| 2152     | Const.          | Executive Engineer, Central Works Division PWD(B&R) Branch, Roop Nagar       | Civil    | Prof. Umesh Sharma  | Job Mix Design for Kharar – Ludhiana Road                         |
| 2153     | Const.          | Sub Divisional Engineer, Water Supply Sub Division No. 1, Chandigarh         | Civil    | Prof. N.P. Devgan   | Post Audit of Work  |
| 2154     | Testing         | Deputy Suptt. of Police, Vigilance Bureau, Punjab, Unit Bathinda             | App. Sci | Prof. H. Kaur       | Testing of 2sample of Cement mortar                               |



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|------|---------|---|------------|---------------------|--|
| 2155 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City  | Civil      | Prof. P. K. Gupta   | Proof. Checking of Bridge design   |
| 2156 | Testing | Deputy Suptt. of Police, Vigilance Bureau, Punjab, Unit Bathinda  | Civil      | Prof. Roshan Lal    | Testing of brick samples   |
| 2157 | Const.  | Dy. General Manager, Haryana State Industrial and Infrastructure Development Corporation Ltd., Saha, Ambala | Civil      | Prof. S.K Singh     | Consultancy charges for investigation of soil of land Ph-I HSIIDC                    |
| 2158 | Const.  | M/s Gillco Developers & Builders Pvt. Ltd, Gillco Valley, Sector – 127, NH 21, Mohali                       | Civil      | Prof. S.K Singh     | Vetting of a Structural design of OHSR   |
| 2159 | Const.  | M/s Kamlesh Arora, Ram Auto World, Rajpura  | Civil      | Prof. Sarita Singla | Vetting of a Structural Drawings   |
| 2160 | Const.  | Addl. Superintending Engineer, Plant Civil Mtc., Division No. 2, O&M, GGSSTP, Ropar                         | Dir office | Prof. Manoj Datta   | Consultancy for strengthening of stacker re-claimer Track 13A & 13B at GGSSTP, Ropar |
| 2161 | Const.  | M/s Sheltera Consultants Pvt. Ltd, 580, Rishi Nagar, Shakur Basti, New Delhi                                | Civil      | Prof. R.R Singh     | Vetting/Proof checking of 5 sites  |
| 2162 | Const.  | Executive Engineer, Const. Div. No. 2, PWD, Mohali  | Civil      | Prof. Roshan Lal    | Vetting of Structural Design for SDM office Kharar                                   |
| 2163 | Const.  | M/s Edifice Inc. , C/o Khosala timbers, Timber Market, Shop No-5, Sector - 26, Chandigarh                   | Civil      | Prof. Umesh Sharma  | Vetting of Structural Design/Drawings of OHSR  |
| 2164 | Testing | SDE, Roads, Sub, Div-9, M.C, Chandigarh   | Civil      | Prof. Umesh Sharma  | Testing of Paver Blocks  |
| 2165 | Const.  | M/s Harjit Singh, Engineers & Contractors, 97/1, JwahaNagar Mandi (HP)                                      | Civil      | Prof. S.K Sharma    | Vetting of hydraulic design of WTP   |
| 2166 | Const.  | M/s Vishal Infrastructure Ltd, 52, R.V Road, Basavanagudi, Bangalore  | Civil      | Prof. Umesh Sharma  | Compressive Strength results   |

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| 2167 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City   | Civil      | Prof. P. K. Gupta | Proof. Checking of Structural Design/Drawings                  |
| 2168 | Const.  | Ministry of physical planning and works  | Civil      | Prof. P. K. Gupta | Proof. Checking of Bridge design                               |
| 2169 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali  | Civil      | Prof. N.P. Devgan | Vetting of Structural Design/Drawings                          |
| 2170 | Const.  | SDE, Const., Sub, Div-2, PWD, Mohali   | Civil      | Prof. Roshan Lal  | Checking of Structure Design                                   |
| 2171 | Const.  | M/s Strata, Geosystems (India) Pvt. Ltd., 317, Tantia Jogani Industrial Premises, J.R Boricha Marg, Lower Parel (East)Mumbai | Dir office | Prof. Manoj Datta | Proof Checking of RE wall foundations for Jaipur-Deoli project |
| 2172 | Const.  | Divisional Engineer (Ph Div.No. -2), Room 534, 5 <sup>th</sup> floor, PUDA Bhawan, GMADA, Mohali                             | Civil      | Prof. P. K. Gupta | Vetting of proposal or Road Formation levels of Mullanpur Area |
| 2173 | Const.  | Ext. Engg. , Hydrology Cosnt. & Maintenance, Shimla, HP  | Civil      | Prof. Siby John   | GW Quality studies in Ind Areas of HP                          |
| 2174 | Const.  | Ext. Engg. , HUDA, Division No. -4, Gurgaon  | Civil      | Prof. P. K. Gupta | Third party quality inspection of roads                        |
| 2175 | Const.  | M/s Sheltera Consultants Pvt. Ltd, 580, Rishi Nagar, Shakur Basti, New Delhi   | Civil      | Prof. R.R Singh   | Vetting/Proof checking of 50 sites                             |
| 2176 | Testing | M/s Shri Balaji Cement Industries, Range Forest Officer, Wild life , Patiala   | Civil      | Prof. Roshan Lal  | Testing of cement sample                                       |
| 2177 | Const.  | M/s Sheltera Consultants Pvt. Ltd, 580, Rishi Nagar, Shakur Basti, New Delhi   | Civil      | Prof. R.R Singh   | Vetting/Proof checking of 72 sites                             |
| 2178 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali  | Civil      | Prof. N.P. Devgan | Vetting of Structural Design/Drawings                          |

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| 2179 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                   | Civil | Prof. N.P. Devgan   | Vetting of Structural Design/Drawings   |
| 2180 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                   | Civil | Prof. N.P. Devgan   | Vetting of Structural Design/Drawings   |
| 2181 | Const.  | Ext. Engg. Project Div. 1, CPWD, Chandigarh                                   | Civil | Prof. N.P. Devgan   | Training of Nallab with RCC retaining walls and stone pitching at ISET Mohali |
| 2182 | Testing | SDE, Road, MC Roads, Sub Div. No. 8, New Deluxe Building, Sec- 17, Chandigarh | Civil | Prof. Roshan Lal    | Testing of cube – M 20  |
| 2183 | Testing | SDE, Road, MC Roads, Sub Div. No. 8, New Deluxe Building, Sec- 17, Chandigarh | Civil | Prof. Roshan Lal    | Testing of cube for construction of Community Centre at Dhanas                |
| 2184 | Testing | Ext. Officer, Nagar Council Anandpur Sahib, Punjab                            | Civil | Prof. Sarita Singla | Testing of pavers Blocks  |
| 2185 | Const.  | SDE, Road, Sub Div. No. 9, MC, Chandigarh                                     | Civil | Prof Anita Khanna   | Testing of pavers Blocks  |
| 2186 | Const   | M/s Tarun C Mathur Structural Consultant, 764, Sector 8-B, Chandigarh         | Civil | Prof. P. K. Gupta   | Proof Checking of Bridge  |
| 2187 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                    | Civil | Prof. P. K. Gupta   | Proof. Checking of Bridge   |
| 2188 | Const.  | M/s Design Solutions Inc. SCO – 354, Sec- 11, Panchkula                       | Civil | Prof. Roshan Lal    | Vetting of Structural/Hydraulic design  |
| 2189 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                    | Civil | Prof. P. K. Gupta   | Proof. Checking of Bridge Design  |
| 2190 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                    | Civil | Prof. P. K. Gupta   | Proof. Checking of Bridge Design  |

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| 2191 | Const.  | M/s Pawan Singh Dogra, Engineer & Govt. Contractor, VPO Jijwin , Distt – Hamirpur HP           | Civil      | Prof. S.K Sharma      | Vetting of Design and Drawings of sewage treatment plant |
| 2192 | Const.  | PEC-CCE  | Civil      | Prof. S.K Verma       | Construction of community centre sector – 39, Chandigarh |
| 2193 | Const.  | M/s Bharuch Enviro Infrastructure Limited, Ankaleshwar, Gujarat                                | Dir office | Prof. Manoj Datta     | Checking of Design                                       |
| 2194 | Const.  | Director, Ch. Devi Lal Memorial, Govt. Engg. College   | Elect.     | Prof. Balwinder Singh | Vetting of specifications of lab equipments              |
| 2195 | Const.  | Executive Engineer, CP Division No. 2 (R), Chandigarh  | Civil      | Prof. N.P. Devgan     | Vetting of Structural Design/Drawings                    |
| 2196 | Const.  | Executive Engineer, N.H. Division, HP PWD, Solan   | Civil      | Prof. N.P. Devgan     | Appointment of proof consultant                          |
| 2197 | Const.  | M/s Atcon Engineers, H.No – 7, Sector – 11, Panchkula  | Civil      | Prof. S.K Sharma      | Vetting of Design of Sewerage System at Meerut Cantt.    |
| 2198 | Testing | SDE, Road Sub Division No. 9, M.C Chandigarh   | Civil      | Prof. Sarita Singla   | Testing of pavers Blocks                                 |
| 2199 | Const.  | Station Engineer, Doordarshan, Amritsar  | Metta.     | Prof. P. Thareja      | Structural Validation of TV Tower, at Amritsar           |
| 2200 | Const.  | Executive Engineer, HUDA, Division No. III, Gurgaon  | Civil      | Prof. P. K. Gupta     | Third party Quality Inspection for Road Works.           |
| 2201 | Const.  | M/s Sanjay Associates, A-1/303, Bharat Apartments, Sector -18A, Plot No. 08, Dwarka, New Delhi | Civil      | Prof. R.R Singh       | Consultancy report with checking                         |
| 2202 | Const.  | Executive Engineer -1, Chandigarh Housing Board, Chandigarh                                    | Civil      | Prof. Roshan Lal      | Design Mix – M-25  |

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| 2203 | Const. | M/s Design Solutions Inc. SCO – 354, Sec-11, Panchkula                                    | Civil | Prof. S.K Verma   | Vetting of Structural Design of Pump Chamber and Underground Sump at Kajauli, Punjab |
| 2204 | Const. | Executive Engineer, Civil Const. Division, Rohatak  | Civil | Prof. S.K Verma   | Checking of estimates and Vetting of Structural Drawings                             |
| 2205 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                                | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design/Drawings  |
| 2206 | Const. | M/s Edifice Inc. , C/o Khosala timbers, Timber Market, Shop No-5, Sector - 26, Chandigarh | Civil | Prof. N.P. Devgan | Vetting of Structural Design/Drawings for Magazines                                  |
| 2207 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                                | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design/Drawings  |
| 2208 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                                | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design/Drawings  |
| 2209 | Const. | M/s Indian Oil Corporation, SCO – 35-36, Sector – 7C, Chandigarh.                         | Civil | Prof. Roshan Lal  | Testing of pavers Blocks   |
| 2210 | Const. | Executive Engineer, HUDA Division No. V, Gurgaon.   | Civil | Prof. P. K. Gupta | Third party Quality Inspection for construction of roads at Gurgaon.                 |
| 2211 | Const. | Executive Engineer, HUDA Division No. V, Gurgaon.   | Civil | Prof. P. K. Gupta | Third party Quality Inspection for construction of roads at Gurgaon.                 |
| 2212 | Const. | Superintending Engineer, Pb. PWD (B&R) Branch, Ludhiana                                   | Civil | Prof. P. K. Gupta | Proof Checking of Bridge   |
| 2213 | Const. | Executive Engineer (D) B&R, Municipal Corporation, Ludhiana                               | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Drawings   |
| 2214 | Const. | Executive Officer, Panchayat Samiti, Chandigarh   | Civil | Prof. Roshan Lal  | Testing of pavers Blocks   |

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| 2215 | Const.  | Executive Officer, Panchayat Samiti, Chandigarh   | Civil | Prof. Roshan Lal    | Testing of pavers Blocks   |
| 2216 | Const.  | Executive Engineer -1, Chandigarh Housing Board, Chandigarh                                 | Civil | Prof. Sarita Singla | Design Mix – M-25  |
| 2217 | Const.  | M/s Harjeet Singh Engineers & Contractors, 97/1, Jawhar Nagar Mandi (HP)                    | Civil | Prof. S.K Sharma    | Vetting of Design of Water Treatment Plant   |
| 2218 | Const.  | M/s Vishal Infrastructure Ltd., # 52, R. V. Road, Basavanagudi, Bangalore                   | Civil | Prof. Umesh Sharma  | Resurfacing of Runway  |
| 2219 | Const.  | Executive Engineer, Central Works Division, PWD B&R Br. Abohar                              | Civil | Prof. P. K. Gupta   | Job Mix Formula  |
| 2220 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                                  | Civil | Prof. P. K. Gupta   | Proof. Checking of Bridge Design   |
| 2221 | Const.  | Executive Engineer, HUDA Division No. III, Gurgaon.   | Civil | Prof. P. K. Gupta   | Third party Quality Inspection for construction of roads at Gurgaon.   |
| 2222 | Const.  | M/s Bachitter Singh Associates, SCO – 20, IIInd Floor, Madhya Marg, Sector- 7/C, Chandigarh | Civil | Prof. N.P. Devgan   | Proof Checking of Structural Design and Drawings of Temporary Shed of Modren Whole Sale Market for fruits and vegetables at parala |
| 2223 | Const.  | M/s Floora Udyog, Solan, Himachal Pardesh   | Civil | Prof. Sarita Singla | Design of Pump House for the work Sh. Naina Devi at Kot Ke   |
| 2224 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                                 | Civil | Prof. N.P. Devgan   | Counter Checking of EWS Houses   |
| 2225 | Const.  | Executive Engineer – I, Panjab University   | Civil | Prof. Sarita Singla | Testing of Cement Sample - OPC – G-43  |
| 2226 | Testing | SDE, M.C Road Sub Division No. 8, Sector – 17, Chandigarh                                   | Civil | Prof. Sarita Singla | Testing of pavers Blocks   |

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| 2227 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                             | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings   |
| 2228 | Const. | M/s Garrison Engineer (AF), MC, Military Engineer Services, Chandigarh – 160 003       | Civil | Prof. N.P. Devgan | Dome Roof Leakage & Structural Soundness in certain buildings of Engine division at the 3BRD Air Force Station Chandigarh |
| 2229 | Const. | M/s Creative Consultants, 2402, Top Floor, Guru Har Rai Sahib Complex, Sec- 67, Mohali | Civil | Prof. S.K Verma   | Proof. Checking of Structural Design and Drawings tehsil building at Farukh Nagar (Gurgaon)                               |
| 2230 | Const. | M/s Creative Consultants, 2402, Top Floor, Guru Har Rai Sahib Complex, Sec- 67, Mohali | Civil | Prof. S.K Verma   | Proof. Checking of Structural Design and Drawings tehsil building at Farukh Nagar (Gurgaon)                               |
| 2231 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of Building Structure of Multipurpose Hall, Nuh  |
| 2232 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of Building Structure of Labours Court at Gurgoan  |
| 2233 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Vetting of Structural Design/Drawings for 11 sites in Haryana   |
| 2234 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of Library Block at Meham  |
| 2235 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of Judicial Block of Mini Sect. at Palwal  |
| 2236 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of 100 Beded Hospital at Palwal  |
| 2237 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of Banquet Hall at Rewari  |
| 2238 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. N.P. Devgan | Counter Checking of Govt. College at Narwana (Jind)   |

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| 2239 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali  | Civil | Prof. N.P. Devgan | Vetting of Structural Design/Drawings for Roof Top Sites in Haryana       |
| 2240 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali  | Civil | Prof. N.P. Devgan | Vetting of Structural Design/Drawings for 10 sites in Haryana             |
| 2241 | Const. | SDE Divisional Engineer, HUDA, Sub Division No-II, Ambala  | Civil | Prof. N.P. Devgan | Vetting of Design of Truss of Badminton Hall at sports complex, Ambala    |
| 2242 | Const. | M/s Unipro Techno Infrastructure Pvt. Ltd., SCO – 36, IInd Floor, Sec-18/D, Chandigarh                               | Civil | Prof. N.P. Devgan | Counter Checking of Design/Drawings of Water Tanks                        |
| 2243 | Const. | M/s Banal Prefabs Pvt. Ltd., 164, Industrial Area, Phase – 1, Chandigarh   | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings of pre-engineering buildings at Leh |
| 2244 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City   | Civil | Prof. P. K. Gupta | Proof. Consultancy for checking of Structural Design/Drawings             |
| 2245 | Const. | Executive Engineer Civil Construction Division, UHBVN Rohtak, # 786/28, Bharat Colony, Near Sheela Bye Pass, Rohtak. | Civil | Prof. S.K Verma   | Physical Inspection of work.  |
| 2246 | Const. | Executive Engineer, HUDA Division No. IV, Gurgaon.   | Civil | Prof. P. K. Gupta | Third party quality inspection  |
| 2247 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City   | Civil | Prof. P. K. Gupta | Checking of Structural Design/Drawings                                    |
| 2248 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City   | Civil | Prof. P. K. Gupta | Checking of Structural Design   |
| 2249 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City   | Civil | Prof. P. K. Gupta | Proof. Consultancy for checking of Structural Design/Drawings             |
| 2250 | Const. | Executive Engineer, HUDA Division No. IV, Gurgaon.   | Civil | Prof. P. K. Gupta | Third party quality inspection  |



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| 2251 | Const. | M/s Nagi & Associates, 1085, Sector 71, Mohali                               | Civil | Prof. N.P. Devgan  | Vetting of Structure Drawings   |
| 2252 | Const. | Executive Engineer, C.P Division No. 5, Chandigarh                           | Civil | Prof. Roshan Lal   | Checking of Structure Design of Block – E, GMCH – 32, Chandigarh  |
| 2253 | Const. | SDE, Road, Sub Div. No. 2, MC, Chandigarh                                    | Civil | Prof. Roshan Lal   | Testing of Cubes  |
| 2254 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. N.P. Devgan  | Checking of Structural Design/Drawings for SS Tank No. 2 Sector – 14P Hissar                            |
| 2255 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. N.P. Devgan  | Checking of Structural Design/Drawings for Academic Block at Sanik School at Gothra Tappi Khori, Rewari |
| 2256 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. N.P. Devgan  | Checking of Structural Design/Drawings for Directorate of Urban Local Bodies Haryana                    |
| 2257 | Const. | Assistant Engineer, Project Sub-Divn – II, CPWD, Chandigarh                  | Civil | Prof. S.K Verma    | Design Mix M-25   |
| 2258 | Const. | M/s Chopra Consulting Engineers, H.No – 1076, G.F, Sector – 21 B, Chandigarh | Civil | Prof. Roshan Lal   | Checking of Structural Design/Drawings  |
| 2259 | Const. | Assistant Engineer, PWD, Jalandhar   | Civil | Prof. Roshan Lal   | Design Mix M-25   |
| 2260 | Const. | Punjab PWD Division No. 2, Bhatinda  | Civil | Prof. Umesh Sharma | Mix Design M-25   |
| 2261 | Const. | M/s Jindals Consortium, SCF – 9, Vikas Vihar, Ambala                         | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |
| 2262 | Const. | M/s Jindals Consortium, SCF – 9, Vikas Vihar, Ambala                         | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |

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| 2263 | Const.  | Divisional Engineer (C-III), GMADA, Mohali  | Civil | Prof. Roshan Lal  | Checking of Structural Design   |
| 2264 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                                     | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings for 10 Nos sites in Punjab  |
| 2265 | Const.  | Divisional Engineer (C-III), GMADA, Mohali  | Civil | Prof. N.P. Devgan | Counter Checking of Structural Design   |
| 2266 | Const.  | DLF India Ltd. Chandigarh Technology Park, Plot No. 2, Tower D, Gr Floor, Chandigarh            | Civil | Prof. S.K Singh   | Soil Test Report of DLF Project at Mullanpur  |
| 2267 | Const.  | Assistant Engineer, CPWD, Jalandhar   | Civil | Prof. Roshan Lal  | Mix Design M-25   |
| 2268 | Const.  | M/s Unipro Techno Infrastructure Pvt. Ltd., SCO 36, 2 <sup>nd</sup> Floor, Sec-18/D, Chandigarh | Civil | Prof. N.P. Devgan | Checking of Structural Design   |
| 2269 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas Vihar, Ambala  | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings  |
| 2270 | Const.  | M/s Aditcon India Private Limited, # 3140, Sec-21/D, Chandigarh                                 | Civil | Prof. N.P. Devgan | Checking and Vetting of Calculations regarding the left bank abutment of Steel Bridge project referred to PEC |
| 2271 | Const.  | M/s Consulting Engineers Assoc., S.C.O - 51, 2 <sup>nd</sup> Floor, Swastik Vihar, Sec-5, PKL   | Civil | Prof. P. K. Gupta | Proof Checking of Design for approaches to ROB at Railway xing no 27 on Delhi-Ambala Rail section at Sonapat  |
| 2272 | Const.  | Creative Consultants, 2402 Top Floor, Sector – 67, GHRS Complex, Sec- 67, Mohali                | Civil | Prof. S.K Verma   | Proof Checking of Structural Design and Drawings  |
| 2273 | Testing | M/s D.P Jain & Co, Infrastructure Pvt. Ltd, under Chief Engineer (Air Force Udhampur)           | Civil | Prof. P. K. Gupta | Testing of Runway at Air Force Station Leh for toughness  |
| 2274 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas Vihar, Ambala  | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings  |

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| 2275 | Const.  | M/s Kerala Enviro Infrastructure Ltd.,<br>Ambalamedu, Kochi  | Dir office | Prof. Manoj<br>Datta  | Inspection of the 2nd Cell of Secured landfill in Kerala<br>Enviro Infrastructure Ltd. (KEIL)     |
| 2276 | Const.  | M/s Vishal Infrastructure Ltd, R V Road,<br>Bangalore  | Civil      | Prof. Umesh<br>Sharma | Resurfacing of Runway   |
| 2277 | Const.  | Executive Engineer, HUDA Division, Rewari  | Civil      | Prof. P. K.<br>Gupta  | Third Party Inspection  |
| 2278 | Const.  | M/s Tech-Pecific, SCO-80-82, Sec- 34 A,<br>Chandigarh  | Civil      | Prof. Roshan<br>Lal   | Proof Checking and Modifications of Structural<br>Drawings of Commercial buildings at Jalandhar   |
| 2279 | Const.  | M/s Unipro Techno Infrastructure Pvt. Ltd.,<br>SCO 36, 2 <sup>nd</sup> Floor, Sec-18/D, Chandigarh | Civil      | Prof. N.P.<br>Devgan  | Counter Checking of Structural Design/Drawings  |
| 2280 | Testing | Executive Engineer - 1, Panjab University,<br>Chandigarh   | Civil      | Prof. Roshan<br>Lal   | Testing of Cement Sample  |
| 2281 | Testing | Executive Engineer (QC) H.A.S.M Board,<br>Panchkula  | Civil      | Prof. S.K<br>Verma    | Testing of samples of premix carpet with seal coat  |
| 2282 | Const.  | Executive Engineer, HUDA Division No- 2,<br>Faridabad  | Civil      | Prof. S.K<br>Verma    | Str. Design/Strengthening of the strom water drain  |
| 2283 | Const.  | M/s Ramky Infrastructure Ltd. Haderabad  | Civil      | Prof. S.K<br>Sharma   | Vetting of OHSR, CWT & Pump Chamber for HSIDC at 4-B,<br>Sector, Bahadurgarh.                     |
| 2284 | Testing | Municipal Council Gobindgarh, Fatehgarh<br>Sahib (Punjab)  | Civil      | Prof. Roshan<br>Lal   | Testing of Pavers   |
| 2285 | Const.  | M/s Towervisioin India Pvt.Ltd., E-178, Phase<br>– 7, Indl Area, Mohali Punjab                     | Civil      | Prof. N.P.<br>Devgan  | Checking of Structural Design of supporting arrangement of<br>Roof Top mobile Towers at Panchkula |
| 2286 | Const.  | Divisional Engineer - II GAMADA, SAS Nagar   | Civil      | Prof. N.P.<br>Devgan  | Counter Checking of Structural Design/Drawings  |

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| 2287 | Testing | SDE M.C.P.H Sub Div. No. 13, Chandigarh                     | Civil | Prof. N.P. Devgan | Testing of RCC Road gully cover and frame, RCC Road gully slab and frame, RCC vertical grating. |
| 2288 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh          | Civil | Prof. Roshan Lal  | Testing of Pavers   |
| 2289 | Testing | SDE Roads Sub Div. No. 8, Chandigarh                        | Civil | Prof. Roshan Lal  | Testing of Pavers   |
| 2290 | Const.  | Asstt. Engg., Amritsar Central Division 2/1 R.T Road ASR    | Civil | Prof. Roshan Lal  | Mix Design M-25   |
| 2291 | Const.  | Divisional Engineer - II GAMADA, SAS Nagar                  | Civil | Prof. N.P. Devgan | Counter Checking of Structural Design   |
| 2292 | Const.  | CPWD, Shimla Central Division-I, Kennedy Cottage, Shimla    | Civil | Prof. N.P. Devgan | Construction of old age home at Shimla  |
| 2293 | Testing | SDE M.C. Roads Sub Div. No. 2, Sec- 17, Chandigarh          | Civil | Prof. Roshan Lal  | Testing of Cubes  |
| 2294 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings   |
| 2295 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings   |
| 2296 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings   |
| 2297 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings   |
| 2298 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings   |

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| 2299 | Const. | M/s Edifice Inc., C/o Khosala timbers, Sec- 26, Chandigarh  | Civil      | Prof. N.P. Devgan | Vetting of Structural Design                      |
| 2300 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. N.P. Devgan | Counter Checking of PWD Rest House                |
| 2301 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. N.P. Devgan | Vetting of Structural Design and Drawings         |
| 2302 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. N.P. Devgan | Vetting of Structural Design and Drawings         |
| 2303 | Const. | Strata Geosystems India (P) Ltd. Mumbai                     | Dir office | Prof. Manoj Datta | Proof Checking of RE Wall Foundation              |
| 2304 | Const. | M/s Structulogix, Jalandhar                                 | Civil      | Prof. Roshan Lal  | Proof. Checking of Structural Design and Drawings |
| 2305 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2306 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2307 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2308 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2309 | Const. | M/s Consulting Engineers Assoc. SCO-51, Sec-5, PKL          | Civil      | Prof. P. K. Gupta | Proof consultancy for ROB at Sonapat              |
| 2310 | Const. | Strata Geosystems India (P) Ltd. Mumbai                     | Dir office | Prof. Manoj Datta | Proof Checking of RE Wall Foundation              |

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|------|--------|---|-------|-------------------|---|
| 2311 | Const. | Executive Engineer, HUDA, Division No. III, Gurgaon         | Civil | Prof. P. K. Gupta | Third Party Inspection                            |
| 2312 | Const. | Ext. Engg., Construction Division No. 2, PWD, Kapurthala    | Civil | Prof. P. K. Gupta | Job Mix Design                                    |
| 2313 | Const. | Executive Engineer, HUDA, Division No. II, Gurgaon          | Civil | Prof. P. K. Gupta | Third Party Inspection                            |
| 2314 | Const. | Assistant Engineer, Project Sub-Divn , CPWD, Chd            | Civil | Prof. Roshan Lal  | Mix Design M-30                                   |
| 2315 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings         |
| 2316 | Const. | M/s Creative Consultants, Mohali                            | Civil | Prof. S.K Verma   | Proof. Checking of Structural Design and Drawings |
| 2317 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2318 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2319 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2320 | Const. | M/s Marc Technocrats Pvt. Ltd., Bhadurgarh, Haryana         | Civil | Prof. P. K. Gupta | Proof Checking of Bridge Design and Drawings      |
| 2321 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2322 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |

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|------|---------|--|-------|---------------------|---|
| 2323 | Testing | SDE Roads Sub Div. No. 10, M.C. Chandigarh             | Civil | Prof. Sarita Singla | Testing of pavers Blocks                          |
| 2324 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala  | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2325 | Const.  | Executive Engineer, HUDA, Division No. I, Gurgaon      | Civil | Prof. P. K. Gupta   | Third Party Inspection                            |
| 2326 | Const.  | M/s Vijay K Soni, Govt. Contractor, Hamirpur, H.P      | Civil | Prof. S.K Verma     | Vetting of Structural Drawings                    |
| 2327 | Const.  | Executive Engineer, HUDA, Division No. I, Panchkula    | Civil | Prof. P. K. Gupta   | Regarding installation of surge valve             |
| 2328 | Const.  | M/s Sheltera Consultants, New Delhi                    | Civil | Prof. R.R Singh     | Vetting/Proof checking of 5 sites                 |
| 2329 | Const.  | M/s MSV International, Inc, D-7, South City-1, Gurgaon | Civil | Prof. P. K. Gupta   | Proof Checking of R.C.C Bridge.                   |
| 2330 | Testing | Eexecutive Officer, Panchayat Samiti, Chanidigarh      | Civil | Prof. Roshan Lal    | Testing of PCC Big Kerbs                          |
| 2331 | Testing | Eexecutive Officer, Panchayat Samiti, Chanidigarh      | Civil | Prof. Roshan Lal    | Testing of Pavers                                 |
| 2332 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh     | Civil | Prof. Roshan Lal    | Testing of Pavers                                 |
| 2333 | Const.  | M/s Unipro Techno Infrastructure Pvt. Ltd., Chandigarh | Civil | Prof. N.P. Devgan   | Counter Checking of Structural Design             |
| 2334 | Testing | Assistant Engineer (Civil), Doordarshan Complex, Chd.  | Civil | Prof. Roshan Lal    | Testing of Cement                                 |

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|------|---------|---|-------|--------------------|---|
| 2335 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings |
| 2336 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings |
| 2337 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings |
| 2338 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings |
| 2339 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings |
| 2340 | Const.  | SDO Const. S/Div HVPNL Shabad, Haryana                      | Civil | Prof. Umesh Sharma | Constuction of well type foundation of 66KV line  |
| 2341 | Const.  | M/s Ramky Infrastructure Ltd. Haderabad                     | Civil | Prof. S.K Sharma   | Vetting of Design and Drawings                    |
| 2342 | Const.  | M/s National Engineering Projects Consultants, Chandigarh   | Civil | Prof. Roshan Lal   | Proof. Checking of Structural Design and Drawings |
| 2343 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh          | Civil | Prof. Roshan Lal   | Testing of Pavers                                 |
| 2344 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan  | Vetting of Structural Design and Drawings         |
| 2345 | Testing | Asstt. Engg. (Civil), Doordarshan Complex, Sec -37B, Chd.   | Civil | Prof. N.P. Devgan  | Design Mix M-25                                   |
| 2346 | Const.  | Executive Engineer, W/S & Saniation Div. No. 2, Mohali      | Civil | Prof. Roshan Lal   | Checking of Structural Design                     |



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|------|---------|---|----------|---------------------|---|
| 2347 | Const.  | SDE M.C. Roads Sub Div. No. 2, MC, Chandigarh                 | Civil    | Prof. Roshan Lal    | Testing of Cement Concrete Cubes                  |
| 2348 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil    | Prof. N.P. Devgan   | Vetting of Structural Design and Drawings         |
| 2349 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil    | Prof. N.P. Devgan   | Vetting of Structural Design and Drawings         |
| 2350 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil    | Prof. N.P. Devgan   | Vetting of Structural Design and Drawings         |
| 2351 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil    | Prof. N.P. Devgan   | Vetting of Structural Design and Drawings         |
| 2352 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil    | Prof. N.P. Devgan   | Vetting of Structural Design and Drawings         |
| 2353 | Const.  | M/s Bachitter Singh Associates, Chandigarh                    | Civil    | Prof. N.P. Devgan   | Proof Checking of Structural Design and Drawings  |
| 2354 | Testing | M/s Kalsi Filling Station, Vill- Bhattiwal, Batala, Gurdaspur | Civil    | Prof. Roshan Lal    | Testing of Pavers                                 |
| 2355 | Const.  | Public Sector (Confidential)                                  | DAA& CSE | Prof. Sanjeev Sofat | Consultancy                                       |
| 2356 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2357 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2358 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |

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| 2359 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings          |
| 2360 | Const. | M/s Shivalik Solid Waste Management Limited, Solan          | Dir office | Prof. Manoj Datta   | Consultancy charges for visit at Shivalik site             |
| 2361 | Const. | M/s Creative Consultants, Sector - 67, Mohali               | Civil      | Prof. S.K Verma     | Proof. Checking of Structural Design and Drawings          |
| 2362 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings          |
| 2363 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings          |
| 2364 | Const. | Conware, Punjab State Container & Warehousing Corp. Ltd.    | Civil      | Prof. S.K Verma     | Vetting of Structural Design and Drawings                  |
| 2365 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings          |
| 2366 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings          |
| 2367 | Const. | M/s Creative Consultants, Sector - 67, Mohali               | Civil      | Prof. S.K Verma     | PEC Certified Drawings and Structure stability certificate |
| 2368 | Const. | District Consumer Dispute Redressal Forum, Mohali           | Mech.      | Prof. Sushant Samir | Inspection of Maruti Alto Car                              |
| 2369 | Const. | District Forum - 1, U.T Chanidgarh                          | Mech.      | Prof. Sushant Samir | Inspection of Vehicle Indigo CS LX                         |
| 2370 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. N.P. Devgan   | Counter Checking of Structural Design and Drawings         |

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|------|---------|---|-------|---------------------|---|
| 2371 | Const.  | Er. Devinder Kumar, # 3752, Sector - 9, Chandigarh          | Civil | Prof. N.P. Devgan   | Checking of Structural Design           |
| 2372 | Const.  | Homoeopathic Mediacal Collage & Hospital Assoc., Chd.       | Civil | Prof. Sarita Singla | Evaluation of Load Bearing              |
| 2373 | Const.  | M/s Kamal dev Sharma, Contractor                            | Civil | Prof. Roshan Lal    | Vetting of Structural Design Drawings   |
| 2374 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh          | Civil | Prof. Sarita Singla | Testing of Pavers                       |
| 2375 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Vetting of Structural Design & Drawings |
| 2376 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Vetting of Structural Design & Drawings |
| 2377 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Vetting of Structural Design & Drawings |
| 2378 | Testing | SDE M.C. Roads Sub Div. No. 6, MC, Chandigarh               | Civil | Prof. Sarita Singla | Testing of Pavers                       |
| 2379 | Const.  | District Forum - II, U.T Chanidgarh                         | Mech. | Prof. Sushant Samir | Inspection of Vechicle                  |
| 2380 | Const.  | District Forum - II, U.T Chanidgarh                         | Mech. | Prof. Sushant Samir | Inspection of Vechicle                  |
| 2381 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh          | Civil | Prof. Roshan Lal    | Testing of Pavers                       |
| 2382 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh          | Civil | Prof. N.P. Devgan   | Testing of Pavers                       |

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|------|--------|---|-------|-------------------|---|
| 2383 | Const. | SDE, HUDA, Sub Div No. 1, Rewari                      | Civil | Prof. P. K. Gupta | Third Party Inspection                            |
| 2384 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2385 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2386 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2387 | Const. | Nutech Infrastructure Pvt. Ltd., New Delhi            | Civil | Prof. P. K. Gupta | Proof. Checking of design                         |
| 2388 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2389 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2390 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2391 | Const. | Rayat-Bahra, SCO-126-127, Sector-34 A, Chandigarh     | E&EC  | Prof V. Rihani    | Infuse Lab quality                                |
| 2392 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta | Proof. Checking of Bridge                         |
| 2393 | Const. | SDE, Provincial Sub Div Dabwali, PWD B&R Br. Sirsa    | Civil | Prof. P. K. Gupta | GSB Job Mix Formula                               |
| 2394 | Const. | M/s Sandeep Kumar, Veer Colony, Bathinda              | Civil | Prof. N.P. Devgan | Design approval for proposed PWD Rest House       |

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| 2395 | Testing | SDE M.C. Roads Sub Div. No. 8, Sec- 17, Chandigarh          | Civil | Prof. Sarita Singla | Testing of Pavers                                 |
| 2396 | Const.  | Continental Foundations, Sector-43/B, Chandigarh            | Civil | Prof. Roshan Lal    | Checking of Structural Design                     |
| 2397 | Const.  | M/s Sohi Builders, Phase - I, Panchkula                     | Civil | Prof. Sarita Singla | Vetting of group housing building towers          |
| 2398 | Const.  | M/s Ureka Engineers, Todar Mal Road, New Delhi              | Civil | Prof. S.K Verma     | Proof. Checking of Structural Design and Drawings |
| 2399 |         | <b>Cancelled</b>  |       |                     |   |
| 2400 | Testing | SDE Construction Sub Div. No. 6, Chandigarh                 | Civil | Prof. N.P. Devgan   | Testing of Bricks                                 |
| 2401 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Counter Checking Litigent Hall, Rohtak            |
| 2402 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Counter Checking Office Building, Kaithal         |
| 2403 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Counter Checking Govt. College, Barwala           |
| 2404 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Vetting of Structural Design & Drawings           |
| 2405 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Counter Checking Bus Stand, Ramdass, Amritsar     |
| 2406 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan   | Counter Checking Club Building, Kaithal           |

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|------|--------|---|-------|-------------------|---|
| 2407 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Counter Checking Govt. College Dabwali, Sirsa     |
| 2408 | Const. | M/s Tech Pecific, Sector 34, Chandigarh                     | Civil | Prof. Roshan Lal  | Modification of Structural Design/Drawings        |
| 2409 | Const. | Ext. Engg., Discharge Division, I.B Punjab, Mohali          | Civil | Prof. N.P. Devgan | Architectural Consultancy for construction        |
| 2410 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Checking of Structural Design and Drawings        |
| 2411 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Checking of Structural Design and Drawings        |
| 2412 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2413 | Const. | Divisional Engineer (HQ) GLADA, Ludhiana                    | Civil | Prof. P. K. Gupta | Widening of Ludhiana Ferozepur Road               |
| 2414 | Const. | PSI&ECL, Udyog Bhawan, Sector - 17 - A, Chaddigarh          | Civil | Prof. S.K Verma   | Construction of state Data Centre                 |
| 2415 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings         |
| 2416 | Const. | M/s Nagi & Associates, 1085, Sector 71, Mohali              | Civil | Prof. N.P. Devgan | Vetting of Hydraulic & Structure Design           |
| 2417 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings         |
| 2418 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. N.P. Devgan | Vetting of Structural Design and Drawings         |

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|------|--------|---|-------|-------------------|---|
| 2419 | Const. | Ext. Engg. Sub. Div PWD B&R, SAS Nagar                | Civil | Prof. Roshan Lal  | Checking of Structural Design of Sub Tehsil Morinda |
| 2420 | Const. | M/s Tech-Pacific, SCO-80-82, Sec- 34 A, Chandigarh    | Civil | Prof. Roshan Lal  | Proof checking/modifications of structural design   |
| 2421 | Const. | M/s Chopra Consulting Engineers, 1076/21B, Chandigarh | Civil | Prof. Roshan Lal  | Checking of Structural Design of Sub Tehsil Morinda |
| 2422 | Const. | SDE, HUDA, Sub Div No. 1, Rewari                      | Civil | Prof. P. K. Gupta | Prov. Storm Water Drainage Scheme                   |

## CONSULTANCY RECORDS FOR THE YEAR 2012-2013

| Ref No. | Type of Project | Agency   | Deptt. | PI's Name           | Project Title                                    |
|---------|-----------------|--|--------|---------------------|--|
| 2423    | Const.          | District Forum - 1, U.T Chanidgarh                         | Mech.  | Prof. Sushant Samir | Inspection of Vehicle                            |
| 2424    | Const.          | M/s Pioneer Bricks, Dera Bassi, Distt. Mohali              | Civil  | Prof. R.R Singh     | Technical Advice for Bricks                      |
| 2425    | Const.          | Executive Engineer, HUDA Division No. 1, Rewari            | Civil  | Prof. P. K. Gupta   | Providing Sewerage Scheme in Sec- 19, Rewari     |
| 2426    | Const.          | Executive Engineer, HUDA Division, Rewari                  | Civil  | Prof. P. K. Gupta   | Third Party Inspection                           |
| 2427    | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |
| 2428    | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |
| 2429    | Const.          | M/s Welspun Projects Ltd., Lower Parel, Mumbai             | Civil  | Prof. S.K Sharma    | Surge Analysis for 2200 mm dia Rising Main       |
| 2430    | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala      | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |
| 2431    | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala      | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |
| 2432    | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala      | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |



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|------|---------|---|------------|-------------------|--|
| 2433 | Const.  | M/s Bharuch Enviro Infrastructure Ltd, Ankaleshwar, Gujarat | Dir office | Prof. Manoj Datta | Checking of Design of cell 6 of new landfill at BIEL |
| 2434 | Testing | SDE, Road, Sub Div. No. 8, MC, Chandigarh                   | Civil      | Prof. Roshan Lal  | Testing of Pavers                                    |
| 2435 | Const.  | M/s Welspun Projects Ltd., Lower Parel, Mumbai              | Civil      | Prof. S.K Sharma  | Approval/Vetting of Hydraulic Design of Pipeline     |
| 2436 | Const.  | M/s PACL Limited, SCO- 76, Phase - IX, Mohali               | Civil      | Prof. N.P. Devgan | Vetting of Structural Design/Drawings                |
| 2437 | Const.  | Executive Engineer, HUDA Division, No. 3, Faridabad         | Civil      | Prof. P. K. Gupta | Third Party Inspection                               |
| 2438 | Const.  | Executive Engineer, HUDA Division No. 1, Rewari             | Civil      | Prof. P. K. Gupta | Providing Sewerage Scheme in Sec- 19, Rewari         |
| 2439 | Const.  | Executive Engineer, HUDA Division, No. V, Gurgaon           | Civil      | Prof. P. K. Gupta | Construction of sector Roads                         |
| 2440 | Const.  | M/s Vinod Mutneja Consultants Pvt. Ltd., New Delhi          | Civil      | Prof. N.P. Devgan | Peer Review of One Horixon Centre (OHC Gurgaon)      |
| 2441 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. N.P. Devgan | Counter Checking U.T Employees Housing Scheme        |
| 2442 | Const.  | M/s Vinod Mutneja Consultants Pvt. Ltd., New Delhi          | Civil      | Prof. N.P. Devgan | Peer Review of One Horixon Centre (OHC Gurgaon)      |
| 2443 | Const.  | M/s Vinod Mutneja Consultants Pvt. Ltd., New Delhi          | Civil      | Prof. N.P. Devgan | Peer Review of One Horixon Centre (OHC Gurgaon)      |
| 2444 | Testing | SDE, MC, Road, Sub Div. No. 8, MC, Chandigarh               | Civil      | Prof. Roshan Lal  | Testing of Pavers                                    |

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|------|---------|--|---------|---------------------|--|
| 2445 | Testing | M/s Consolidated Construction Consortium Ltd, N. Delhi                 | Civil   | Prof. Roshan Lal    | Mix Design M- 25 & M- 30                                       |
| 2446 | Const.  | Executive Engineer DCWE, B&R, Commander Works, Ambala Cantt            | Civil   | Prof. Roshan Lal    | Rehabilitation of Structurally Distressed Buildings            |
| 2447 | Const.  | Public Sector (Confidential)   | DAA/CSE | Prof. S. Sofat      | Consultancy  |
| 2448 | Const.  | M/s MSV International Inc, 81, Sector- 15, Sonapat                     | Civil   | Prof. P. K. Gupta   | Proof Checking of R.C.C Bridge over Train Crossing Sonapat     |
| 2449 | Const.  | M/s Bhakara Beas Management Board, (Power Wing) Nangal                 | Metta.  | Prof. R.K Mahajan   | Micro Structure Test of Cut Piece                              |
| 2450 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City             | Civil   | Prof. P. K. Gupta   | Proof Consultancy of structural Design / Drawing               |
| 2451 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City             | Civil   | Prof. P. K. Gupta   | Proof Consultancy for checking of structural Design / Drawings |
| 2452 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City             | Civil   | Prof. P. K. Gupta   | Proof Consultancy for checking of structural Design / Drawings |
| 2453 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City             | Civil   | Prof. P. K. Gupta   | Proof Consultancy of structural Design / drawing               |
| 2454 | Const.  | M/s Oasis Const. Company, Sector- 15, Panchkula                        | Civil   | Prof. Roshan Lal    | P/C of Structural Design/ Drawings of water tank of 3.10 lacs  |
| 2455 | Const.  | M/s Vinod Mutneja Consultants Pvt. Ltd., New Delhi                     | Civil   | Prof. N.P. Devgan   | Street Review of DHC- Gurgaon                                  |
| 2456 | Const.  | M/s Nissan motors India Pvt Ltd C/o District Forum - 1, U.T Chandigarh | Mech.   | Prof. Sushant Samir | Inspection of Vehicle  |

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| 2457 | Const. | M/s Tarun C mathur Structural Consultant, 764, Sector – 8/B, Chandigarh                 | Civil   | Prof. P. K. Gupta | Proof Checking of Bridges  |
| 2458 | Const. | M/s S.P Singla Construction Pvt. Ltd., Flat No-22, Block – D/10, Sec – 7, Rohini, Delhi | App.Sci | Prof. L.N. Sharma | Geological Consultancy Services on Mughal Road J & K             |
| 2459 | Const. | Executive Engineer, Punjab Mandi Board, Gurdaspur, Punjab                               | Civil   | Dr. Tripta Goyal  | Upgradation of Link Road   |
| 2460 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings                 |
| 2461 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta | Proof Consultancy for checking of structural Design / drawings   |
| 2462 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta | Proof Consultancy for checking of structural Design / drawings   |
| 2463 | Const. | Consulting Engineers Associates , Sec- 5, Panchkula                                     | Civil   | Prof. P. K. Gupta | Proof Checking of design of Proposed H.L. Bridge over Begna Nadi |
| 2464 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings                 |
| 2465 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta | Proof Consultancy for checking of structural Design / drawings   |
| 2466 |        | Cancelled   |         |                   |  |
| 2467 | Const. | Executive Engineer M.C.P.H., Division No- 3, Chandigarh                                 | App.Sci | Dr. H. Kaur       | Chemical Analysis of Pre- Stressed Concrete Pipeline             |
| 2468 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta | Proof Consultancy for checking of structural Design / drawings   |

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| 2469 | Const.  | M/s Shivalik Solid Waste Management Ltd, Baddi                               | Dir office | Prof. Manoj Datta   | Technical Advice for the Construction of Cell 2, of landfill at Baddi            |
| 2470 | Const.  | M/s Neel Construction Links Pvt Ltd, # 870, Sector – 15/II, Gurgaon, Haryana | Civil      | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawing                                  |
| 2471 | Const.  | Executive Engineer, Huda, Div No-6, Gurgaon                                  | Civil      | Prof. P. K. Gupta   | Strengthening of Master Road with RMC  |
| 2472 | Const.  | Executive Engineer Prov. Division, PWD, Fatehabad                            | Civil      | Prof. P. K. Gupta   | Proof Checking of Design & Drawing for Bridge                                    |
| 2473 | Const.  | District Consumer Forum - 1, U.T Chandigarh                                  | Mech.      | Prof. Sushant Samir | Inspection of Car  |
| 2474 | Const.  | M/s Kerala Enviro Infrastructure Ltd, Ambalamedu, Kochi                      | Dir office | Prof. Manoj Datta   | Technical Advice on Design and Const. of 3rd & 4th cell of KEIL, Landfill, Kochi |
| 2475 | Const.  | Xen PWD (B & R), Haryana   | Civil      | Prof. P. K. Gupta   | Proof Checking of Two bridges in Ambala District                                 |
| 2476 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                   | Civil      | Prof. P. K. Gupta   | Proof Consultancy for checking of structural Design / drawings                   |
| 2477 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                   | Civil      | Prof. P. K. Gupta   | Proof Consultancy for checking of structural Design / drawings                   |
| 2478 | Const.  | Executive Engineer Prov. Division, PWD, Fatehabad                            | Civil      | Prof. P. K. Gupta   | Proof Checking of design & Drawing for Bridge                                    |
| 2479 | Testing | Assistant Manager (Civil), HSCC(India) Ltd, Patiala                          | Civil      | Prof. Roshan Lal    | Mix Design M- 25 & M- 30   |
| 2480 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil      | Prof. N.P. Devgan   | Vetting of Structural Design/Drawings  |

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| 2481 | Const.    | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                             | Civil   | Prof. N.P. Devgan   | Vetting of Structural Design/Drawings  |
| 2482 | Const.    | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                             | Civil   | Prof. N.P. Devgan   | Counter Checking of Design / Drawings  |
| 2483 | Const.    | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                             | Civil   | Prof. N.P. Devgan   | Non Destructive Testing of Akzonobel Paint Co.                                       |
| 2484 | Const.    | M/s Ravinder Khosla Associates, H.O- 92, The Mall, Civil Lines, Ludhiana                | Civil   | Prof. N.P. Devgan   | Vetting of Structural drawings of Multipurpose Hall                                  |
| 2485 | Const.    | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                             | Civil   | Prof. N.P. Devgan   | Counter Checking of Design / Drawings  |
| 2486 | Const.    | M/s S.P Singla Construction Pvt. Ltd., Flat No-22, Block – D/10, Sec – 7, Rohini, Delhi | App.Sci | Prof. L.N. Sharma   | Geological Consultancy Services on Mughal Road J & K                                 |
| 2487 | Cancelled |   |         |                     |  |
| 2488 | Const.    | Deptt. of Local Govt., Punjab, (Vigilance Cell) SCO -131-32, Sec- 17 C, Chandigarh      | Civil   | Prof. R.R. Singh    | Inspection of various cracks developed in a building built by Improvement Trust Moga |
| 2489 | Const.    | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali                   | Civil   | Dr. S.K. Verma      | Proof Checking of Structural Design and Drawings                                     |
| 2490 | Const.    | Gurdeep Singh C/o Consumer Dispute Redressal Forum-II, Chandigarh                       | Mech.   | Prof. Sushant Samir | Consumer Dispute Redressal Forum-II, Chandigarh ( Inspection of Vehicle)             |
| 2491 | Const.    | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                              | Civil   | Prof. P. K. Gupta   | Proof Checking of Structural Design / Drawings                                       |
| 2492 | Const.    | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali                   | Civil   | Dr. S.K. Verma      | Proof Checking of Structural Design and Drawings                                     |

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| 2493 | Const. | M/s Anamika Uppal C/o Consumer Dispute Redressal Forum-II, Chandigarh        | Mech. | Prof. Sushant Samir | Inspection of Vehicle                            |
| 2494 | Const. | Sh. Jaswinder Singh C/o Consumer Dispute Redressal Forum-II, Chandigarh      | Mech. | Prof. Sushant Samir | Inspection of Vehicle                            |
| 2495 | Const. | Sh. Jaswant Singh C/o Consumer Dispute Redressal Forum-II, Chandigarh        | Mech. | Prof. Sushant Samir | Inspection of Vehicle                            |
| 2496 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. Roshan Lal    | Vetting of Structural Design/Drawings            |
| 2497 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. Roshan Lal    | Vetting of Structural Design/Drawings            |
| 2498 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. Roshan Lal    | Vetting of Structural Design/Drawings            |
| 2499 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                  | Civil | Prof. Roshan Lal    | Vetting of Structural Design/Drawings            |
| 2500 | Const. | M/s Sheltera Consultants Pvt. Ltd, 580, Rishi Nagar, Shakur Basti, New Delhi | Civil | Prof. R.R Singh     | Vetting/Proof checking of 3 sites                |
| 2501 | Const. | Ext. Engg. HUDA, Div. No. 3, SCO-25, Sec-12, Faridabad                       | Civil | Prof. P. K. Gupta   | Third Party Inspection                           |
| 2502 | Const. | Venus Remedies Ltd., Sco-51-52, Ind. Area, Ph-1, PKL                         | Civil | Prof. Roshan Lal    | Vetting of Structural Design/Drawings            |
| 2503 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                   | Civil | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |
| 2504 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City                   | Civil | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |

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| 2505 | Testing | M/S Kukreja Engineers, 1420, Sec.15, Punchkula                        | Civil   | Prof. Sarita Singla    | Testing of cubes -28 days (2No2samples)          |
| 2506 | Const.  | M/s Unipro Techno.Infrastructure Pvt.Ltd Sec 7/C Chd                  | Civil   | Prof. Roshan Lal       | Counter Checking of Structural Design            |
| 2507 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala City            | Civil   | Prof. P. K. Gupta      | Proof Checking of Structural Design and Drawings |
| 2508 |         | M/S Kukreja Engineers, 1420, Sec.15, Punchkula                        | Civil   | Prof. Sarita Singla    | Testing of Cubs 28 days (03No2 Samples)          |
| 2509 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil   | Prof. S.K Verma        | Proof Checking of Structural Design and Drawings |
| 2510 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil   | Prof. S.K Verma        | Proof Checking of Structural Design and Drawings |
| 2511 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil   | Prof. S.K Verma        | Proof Checking of Structural Design and Drawings |
| 2512 | Testing | SSP Vigilance Bureau, Bathinda  | App.Sci | Prof. Vasundhara Singh | Testing of Cement Concrete Samples               |
| 2513 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil   | Prof. P. K. Gupta      | Proof Consultancy for RCC Bridge, JLN Canal      |
| 2514 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil   | Prof. P. K. Gupta      | Proof Checking of Structural Design / Drawings   |
| 2515 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil   | Prof. P. K. Gupta      | Proof Checking for 7m RCC Box Bridge             |
| 2516 | Testing | Executive Engineer Prov. Division 1, PWD, B&R Sirsa                   | Civil   | Prof. P. K. Gupta      | Job Mix Formula                                  |

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| 2517 | Const.  | M/s Sachin Bansal, # 74, Sec-6, Panchkula                             | Civil   | Prof. Roshan Lal    | Proof Checking of Structural Design / Drawings               |
| 2518 | Testing | Executive Engineer - 1, Panjab University, Chandigarh                 | Civil   | Prof. Sarita Singla | Testing of Cement sample                                     |
| 2519 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil   | Prof. Roshan Lal    | Vetting of Structural Design/Drawings for 1 site             |
| 2520 | Const.  | M/s Vishal Singh, SCO-190-92, Sec-8/C, Chandigarh                     | Civil   | Prof. Roshan Lal    | Checking of Structural Strength of SCO-190-92 Sec-8/C, Chd.  |
| 2521 | Const.  | M/s Continental Foundations, H.No- 1059, Sec-43/B, Chd.               | Civil   | Prof. Roshan Lal    | Structure Design Consultancy of ADR centre                   |
| 2522 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil   | Prof. Roshan Lal    | Vetting of Structural Design/Drawings for 3 site             |
| 2523 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil   | Prof. S.K Verma     | Proof Checking of Structural Design and Drawings of RCC Tail |
| 2524 | Testing | SDO(C-1), Punjab Mandi Board, Sabji Mandi Ph.II, Ajitgarh             | Civil   | Prof. P. K. Gupta   | Testing of colour coated Prof.iled galvalume sheets          |
| 2525 | Const.  | District Forum - II, U.T Chandigarh                                   | Mech.   | Prof. Sushant Samir | Inspection of Vehicle  |
| 2526 | Const.  | OSD, Vigilance Cell, U.T Chandigarh                                   | App.Sci | Prof. Prem Lata     | Examining of Cement Mortar samples                           |
| 2527 | Const.  | M/s National Engineering Projects Consultants, Chandigarh             | Civil   | Prof. Roshan Lal    | Proof Checking of Structural Design                          |
| 2528 | Const.  | Executive Engg. HUDA, Div. No IV, Gurgaon, HR                         | Civil   | Prof. P. K. Gupta   | Third Party Inspection                                       |



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| 2529 | Const.  | M/s Continental Foundations, H.No- 1059, Sec-43/B, Chd.               | Civil | Prof. Roshan Lal    | Proof Checking of Structural Design of Building Judicial Block |
| 2530 | Testing | M/s India International Habitat Centre, Ludhiana                      | Civil | Prof. Roshan Lal    | Design Mix - M 25  |
| 2531 | Testing | M/s India International Habitat Centre, Ludhiana                      | Civil | Prof. Sarita Singla | Design Mix - M 25  |
| 2532 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil | Prof. S.K Verma     | Proof Checking of Structural Design /Drawing                   |
| 2533 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil | Prof. S.K Verma     | Proof Checking of Structural Design /Drawing                   |
| 2534 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil | Prof. S.K Verma     | Proof Checking of Structural Design /Drawing                   |
| 2535 | Const.  | Executive Engineer, Central Works Division Sangror, Patiala           | Civil | Prof. P. K. Gupta   | Construction of RoB at Lc No. A-66/2 Ludhana-Jakhal            |
| 2536 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil | Prof. P. K. Gupta   | Proof Consultancy for checking of Structural Design /Drawing   |
| 2537 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil | Prof. P. K. Gupta   | Proof Consultancy for checking of Structural Design /Drawing   |
| 2538 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil | Prof. P. K. Gupta   | Proof Consultancy for checking of Structural Design /Drawing   |
| 2539 | Testing | National Highway Authority of India, Jalandhar                        | Civil | Prof. P. K. Gupta   | Job Mix Design for SDBC  |
| 2540 | Const.  | National Engg Project Consultancy TAN NO. AAIPV5404B                  | Civil | Prof. S.K Verma     | Proof Checking of Structural Design /Drawing                   |

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| 2541 | Const.  | M/s Unipro Techno.Infrastructure Pvt.Ltd Sec 7/C Chd                  | Civil      | Prof. Roshan Lal   | Counter Checking of Structural Design of Pump House  |
| 2542 | Const.  | Ext. Engineer, Provincial Division No. 2,(NH), PWD, Hisar             | Civil      | Prof. P. K. Gupta  | Proof Checking of Design of reconstruction of bridge |
| 2543 | Const.  | Ext. Engineer, Division No. 4, Gurgaon                                | Civil      | Prof. P. K. Gupta  | Third Party Inspection                               |
| 2544 | Const.  | Ext. Engineer, Provincial Division, PWD, B&R Naraingarh               | Civil      | Prof. P. K. Gupta  | Proof Checking of Bridge                             |
| 2545 | Testing | AE(Civil), AGE -B/R-II, for Garrison Engineer (AF), Halwara           | Civil      | Prof. Umesh Sharma | Testing of material                                  |
| 2546 | Const.  | Deputy Gen. Manager- IV, HSRDC, Jhajjar                               | Civil      | Prof. P. K. Gupta  | Proof Checking of Bridge                             |
| 2547 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil      | Prof. S.K Verma    | Proof Checking of Structural Design /Drawing         |
| 2548 | Const.  | M/s EPC Engineering and Planning Consultants, Delhi                   | Civil      | Prof. P. K. Gupta  | Proof Checking of Structural Design /Drawing         |
| 2549 | Const.  | Hindustan Zinc Ltd., Udaipur  | Dir office | Prof. Manoj Datta  | Technical Advice on Zawar Mines Tailing Dam, Udaipur |
| 2550 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil      | Prof. Roshan Lal   | Vetting of Structural Design/Drawings                |
| 2551 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil      | Prof. Roshan Lal   | Vetting of Structural Design/Drawings                |
| 2552 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil      | Prof. Roshan Lal   | Vetting of Structural Design/Drawings                |

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| 2553 | Const. | 3 Base Repair Depot, Air Force Station, Chandigarh                    | Metta | Prof. J.D Sharma  | Indigenization of Cage Assembly                              |
| 2554 | Const. | M/s Tarun C Mathur Structural Consultant, Chandigarh                  | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design of Bridges               |
| 2555 | Const. | Divisional Engineer, GLADA, Ludhaina                                  | Civil | Prof. P. K. Gupta | Widening of Ludhaina - Ferozpur road                         |
| 2556 | Const. | M/s L&T Construction, P.B.No - 979, Chennai                           | Civil | Prof. Roshan Lal  | Vetting of OHSR & UGSR Drawing                               |
| 2557 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                 | Civil | Prof. P. K. Gupta | Proof Consultancy for Checking of Structural Design /Drawing |
| 2558 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                        |
| 2559 | Const. | Executive. Engineer, HUDA, Div.- 2, Gurgaon                           | Civil | Prof. S.K Singh   | Third Party Inspection                                       |
| 2560 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil | Prof. Roshan Lal  | Proof Checking of Structural Design of Bridges               |
| 2561 | Const. | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil | Prof. S.K Verma   | Proof Checking of Structural Design /Drawing                 |
| 2562 | Const. | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali | Civil | Prof. S.K Verma   | Proof Checking of Structural Design /Drawing                 |
| 2563 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali           | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                        |
| 2564 | Const. | M/s Tech-Pecific, Structural Consultants, Mohali                      | Civil | Prof. Roshan Lal  | Proof Checking and Modification of BML Staging Truss         |

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| 2565   | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                          |
| 2566   | Const.  | M/s Chopra Consulting Engg., Sector - 21/B, Chandigarh      | Civil      | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                          |
| 2567   | Testing | Ext.Engg. Municipal Corporation Panchkula                   | Electral   | Prof. Balwinder singh | Testing of LED street light fixture                            |
| 2568   | Const.  | Suptd. Engg. Electrical Circle Chandigarh                   | Electral   | Prof. Balwinder singh | Quality Inspection of Floodlight work at Cricket Stadium, Chd. |
| 2569   | Const.  | UPL Environmental Engineers Ltd. (GAIL) Vadidara            | Dir office | Prof. Manoj Datta     | Consultancy for Landfil closure at Gas Flaring Project, Delhi  |
| 2569 A | Testing | SED Roads Sub Div No.8, MC Chandigarh                       | Civil      | Prof. R.R Singh       | Testing of Bricks  |
| 2570   | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta     | Proof Checking of Structural Design /Drawing                   |
| 2571   | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta     | Proof Checking of Structural Design /Drawing                   |
| 2572   | Testing | Ext. Engg .(H.Q.) Panchayati Raj Public Works, Haryana      | Civil      | Prof. R.R Singh       | Testing of Samples   |
| 2573   | Testing | Ext. Engg .(H.Q.) Panchayati Raj Public Works, Haryana      | App.Sci    | Prof. Harminder Kaur  | Testing of Cement Mortar samples                               |
| 2574   | Const.  | Chief Manager ( Engg) Punjab Warehousing Corp. Chandigarh   | Civil      | Prof. R.R. singh      | Vetting of Design  |
| 2575   | Const.  | Executive Engg. C P Division No. 4, Chandigarh              | Civil      | Prof. R.R. singh      | Third Party Inspection   |

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| 2576   | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                        | Civil      | Prof. Roshan Lal      | Counter Checking of Design/Drawings               |
| 2576 A | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                              | Civil      | Prof. P. K. Gupta     | Proof Checking of Structural Design /Drawing      |
| 2577   | Const.  | M/s Tarun C Mathur Structural Consultant, Chandigarh                               | Civil      | Prof. Sarita Singla   | Proof Checking of Structural Design /Drawing      |
| 2577 A | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                              | Civil      | Prof. P. K. Gupta     | Proof Checking of Structural Design /Drawing      |
| 2578   | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                        | Civil      | Prof. Roshan Lal      | Vetting of Structural Design/Drawings for 2 sites |
| 2579   | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali              | Civil      | Prof. S.K Verma       | Proof Checking of Structural Design /Drawing      |
| 2580   | Const.  | M/s National Engineering Projects Consultants H.No – 150 Sector – 16-A, Chandigarh | Civil      | Prof. Roshan Lal      | Proof Checking of Structural Design /Drawing      |
| 2581   | Testing | M/s Mohan International Builders, Amritsar   | Civil      | Prof. P. K. Gupta     | Testing of Cubes M -35 Grade                      |
| 2582   | Const.  | M/s Unipro Techno.Infrastructure Pvt.Ltd Sec 7/C Chd                               | Civil      | Prof. Sarita Singla   | Proof Checking of Structural Design /Drawing      |
| 2583   | Const.  | M/s Welspun Projects Ltd .   | Electrical | Prof. Balwinder Singh | Vetting of Structural Design/Drawings             |
| 2584   | Const.  | M/s Kerla Enviro. Infrastructure Ltd, Kochi  | Dir office | Prof. Manoj Datta     | Inspection of Landfill of KEIL (3rd cell)         |
| 2585   | Const.  | District Consumer Disputes Redressal Forum (District Forum – I) U.T Chandigarh     | Mech.      | Prof. Sushant Samir   | Inspection of Vehicle                             |

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| 2586 | Const.  | Consulting Engineers Associates , SCO- 51, IInd Floor, Swastik Vihar, Sec- 5, Panchkula | Civil  | Prof. P. K. Gupta   | Proof Checking of Design                                     |
| 2587 | Testing | M/s Uppal Builders (P) Ltd., Ind. Area, Ph. II, Panchkula                               | Civil  | Prof. P. K. Gupta   | Testing of Cubes   |
| 2588 | Const.  | Government Organization (confidential)  | DAA    | Prof. Sanjeev Sofat | Question paper verification                                  |
| 2589 | Testing | SDE, Electrical Division No. 11, Chandigarh   | Metta. | Prof. Uma Batra     | Testing of Aluminum Bar                                      |
| 2590 | Const.  | M/s Design Solutions Inc. SCO- 34, IInd Floor Sec- 11, Panchkula                        | Civil  | Prof. S.K Verma     | Vetting of Valve Chambers                                    |
| 2591 | Const.  | Ext. Engg. HUDA Division No. V, Gurgaon   | Civil  | Prof. P. K. Gupta   | Third Party Inspection                                       |
| 2592 | Const.  | M/s Design Tech, # 857, Sec-9, Panchkula  | Civil  | Prof. Roshan Lal    | Proof Checking of Structural Design/Drawings                 |
| 2593 | Const.  | M/s Design Tech, # 857, Sec-9, Panchkula  | Civil  | Prof. Roshan Lal    | Proof Checking of Structural Design/Drawings                 |
| 2594 | Const.  | Secretary, Municipal Committee, Naraingarh  | Civil  | Prof. Roshan Lal    | Proof Checking of Structural Design/Drawings                 |
| 2595 | Const.  | Shri Sadhu Singh, 84/2, Village - Shahimajra, Mohali                                    | Civil  | Prof. P. K. Gupta   | Evaluation of building structural safety                     |
| 2596 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                                   | Civil  | Prof. P. K. Gupta   | Proof Consultancy for checking of Structural Design /Drawing |
| 2597 | Const.  | Shri Balwinder Singh, 84/3, Village - Shahimajra, Mohali                                | Civil  | Prof. P. K. Gupta   | Evaluation of building structural safety                     |

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| 2598 | Const.  | National Rural Road Development Agency, New Delhi  | Civil | Prof. Siby John   | Scrutiny of project proposal under PMGSY, Punjab State as STA |
| 2599 | Const.  | M/s Unifro Techno Infrastructure Pvt. Ltd., SCO – 36, IIInd Floor, Sec- 18 D, Chandigarh | Civil | Prof. S.K Sharma  | Vetting of Structural Design/Drawings                         |
| 2600 | Const.  | M/s J.S Consultant, Kharkhoda Road Sampla, Rohtak, Haryana                               | Civil | Prof. P. K. Gupta | Proof Checking of Building Design                             |
| 2601 | Const.  | M/s Creative Consultant, 2402 T.F, SGHRS Complex, Sector - 67, Mohali                    | Civil | Prof. S.K Verma   | Proof Checking of Structural Design /Drawing                  |
| 2602 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                              | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                         |
| 2603 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                              | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                         |
| 2604 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                              | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                         |
| 2605 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                              | Civil | Prof. Roshan Lal  | Counter Checking of Structural Design/Drawings                |
| 2606 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                              | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                         |
| 2607 | Const.  | M/s Unifro Techno Infrastructure Pvt. Ltd., SCO – 36, IIInd Floor, Sec- 18 D, Chandigarh | Civil | Prof. S.K Sharma  | Vetting of Structural Design/Drawings                         |
| 2608 | Testing | M/s Gagan Builders,  | Civil | Prof. P. K. Gupta | Design Mix - M 25   |
| 2609 | Const.  | M/s J.S Consultant, Kharkhoda Road Sampla, Rohtak, Haryana                               | Civil | Prof. P. K. Gupta | Proof Checking of Building Design                             |

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| 2610 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                                  | Civil | Prof. P. K. Gupta | Proof Checking of Building Design/Drawings         |
| 2611 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala                                  | Civil | Prof. P. K. Gupta | Proof Checking of Building Design/Drawings         |
| 2612 | Const.  | IDSE, AEE Civil, AGE B&R Nahan   | Civil | Prof. P. K. Gupta | Inter locking Press tiles testing                  |
| 2613 | Testing | M/s Punj Lloyd, Vill & PO- Goindwal Sahib, Tehsil – Khadoor Sahib, Taran Taran, Punjab | Civil | Prof. Roshan Lal  | Design Mix - M 25                                  |
| 2614 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings              |
| 2615 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings              |
| 2616 | Testing | Project Director, AWHO, Sec-114, Mohali  | Civil | Prof. Roshan Lal  | Testing of Cement                                  |
| 2617 | Const.  | M/s National Engineering Projects Consultants H.No – 150 Sector – 16-A, Chandigarh     | Civil | Prof. S.K Verma   | Proof Checking of Structural Design /Drawing       |
| 2618 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings              |
| 2619 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali                            | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings              |
| 2620 | Const.  | M/s Mukesh Ranjan Contractors, Hazipur Road, Dasuya, Hoshiarpur, Punjab                | Civil | Prof. Roshan Lal  | Checking of Structural Design                      |
| 2621 | Const.  | M/s Varaha Infra Ltd., H.No- 1017, Sec-26, Panchkula                                   | Civil | Prof. P. K. Gupta | Third Party testing of Steel, Cement and Bentonite |



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| 2622 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala             | Civil | Prof. P. K. Gupta | Proof Checking of Building Design/Drawings             |
| 2623 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali       | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings                  |
| 2624 | Const.  | M/s EMM TEE Constructions, F-44, Industrial Area, Ph. VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Redesign/Analysis of strength & suitability |
| 2625 | Testing | Sub Divisional Officer (c-1) Punjab Mandi Board, Ajitgarh         | Civil | Prof. P. K. Gupta | Testing of Puff Panels                                 |

## CONSULTANCY RECORDS FOR THE YEAR 2013-2014

| Ref No. | Type of Project | Agency  | Deptt. | PI's Name          | Project Title                                |
|---------|-----------------|---|--------|--------------------|--|
| 2626    | Const.          | M/s Sheltera Consultants, New Delhi                         | Civil  | Prof. R.R Singh    | Vetting/Proof checking of 20 sites           |
| 2627    | Const.          | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal   | Counter Checking of Design/Drawings          |
| 2628    | Const.          | M/s Soigne Engineering Consultants, Manimajra, Chandigarh   | Civil  | Prof. P. K. Gupta  | Proof Checking of Design of Bridge           |
| 2629    | Const.          | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta  | Proof. Consultancy for RCC Bridge, JLN Canal |
| 2630    | Testing         | Garrison Engineer (U) Ambala Cantt                          | Civil  | Prof. P. K. Gupta  | Testing of Samples                           |
| 2631    | Const.          | Executive Engineer, Prov. Div. PWD& B&R, Bahadurgarh        | Civil  | Prof. P. K. Gupta  | Job Mix Formula                              |
| 2632    | Const.          | M/s Races Engineering Services, Sec-17/C, Chandigarh        | Civil  | Prof Sarita Singla | Vetting of Structural Drawings               |
| 2633    | Testing         | M/s Mohan International Builders, Amritsar                  | Civil  | Prof. P. K. Gupta  | Testing of Cubes M-35 Grade                  |
| 2634    | Const.          | M/s Races Engineering Services, Sec-17/C, Chandigarh        | Civil  | Prof Sarita Singla | Vetting of Structural Drawings               |

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|------|--------|---|------------|---------------------|--|
| 2635 | Const. | M/s Nagi & Associates, S.A.S Nagar, Mohali                  | Civil      | Prof. Roshan Lal    | Vetting of Hydraulical Structure & Mechanical Drawings                   |
| 2636 | Const. | M/s May Steels Pvt. Ltd., Industrial Area, Mohali, Punjab   | Civil      | Prof Sarita Singla  | Vertical Member of Different lengths                                     |
| 2637 | Const. | UPL Environmental Engineers Ltd. (GAIL) Vadodara            | Dir office | Prof. Manoj Datta   | Landfil Closure at Gas Flaring Project, Gazipur, Delhi                   |
| 2638 | Const. | M/s Bharuch Enviro Infrastructure Ltd, Ankaleshwar, Gujarat | Dir office | Prof. Manoj Datta   | Consultancy Services for the construction of secured landfill facilities |
| 2639 | Const. | M/s Sheltera Consultants, New Delhi                         | Civil      | Prof. R.R Singh     | Vetting/Proof checking of 50 sites                                       |
| 2640 | Const. | M/s Sheltera Consultants, New Delhi                         | Civil      | Prof. R.R Singh     | Vetting/Proof checking of 50 sites                                       |
| 2641 | Const. | Consumer Disputes Redressal Forum -II, U.T, Chandigarh      | Mech.      | Prof. Sushant Samir | Inspection of Vehicle  |
| 2642 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                        |
| 2643 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil      | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                        |
| 2644 | Const. | Sub Divisional Engineer, M.C.P.H S/Div No. 11, Chandigarh   | Civil      | Prof. P. K. Gupta   | Design of Cement Concrete Mix M-30                                       |
| 2645 | Const. | Executive Engineer, Panchyati Raj, Jalandhar, Punjab        | Civil      | Prof. Roshan Lal    | Vetting of Structural Drawings/Designs                                   |
| 2646 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil      | Prof. Roshan Lal    | Vetting of Structural Drawings/Designs                                   |

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|------|---------|---|-------|-------------------|---|
| 2647 | Const.  | M/s Sheltera Consultants, New Delhi                       | Civil | Prof. R.R Singh   | Vetting/Proof checking of 13 sites                |
| 2648 | Testing | M/s Deepak Builders, Ludhiana, Punjab                     | Civil | Prof. S.K Verma   | Testing of Cubes - 7 Days                         |
| 2649 | Testing | M/s National Tile Corp., Raipur Rani, Panchkula, HR       | Civil | Prof. Roshan Lal  | Testing of Pavers blocks- 50MM                    |
| 2650 | Testing | M/s Deepak Builders, Ludhiana, Punjab                     | Civil | Prof. Roshan Lal  | Testing of Cone Cubes - 7 Days & 25 Days          |
| 2651 | Const.  | M/s Sheltera Consultants, New Delhi                       | Civil | Prof. R.R Singh   | Vetting/Proof checking of 10 sites                |
| 2652 | Const.  | SDE Sub Div. No IV, PWD B&R, Sonipat                      | Civil | Prof. P. K. Gupta | New Sonipat Bypass ( Physical properties of soil) |
| 2653 | Const.  | SDE Sub Div. No IV, PWD B&R, Sonipat                      | Civil | Prof. P. K. Gupta | New Sonipat Bypass ( Physical properties of soil) |
| 2654 | Const.  | M/s Attwal & Associates SCO- 1064-65, Sec-22B, Chandigarh | Civil | Prof. S.K Verma   | Proof checking of Structural Design               |
| 2655 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala     | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2656 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala     | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2657 | Const.  | M/s Sheltera Consultants, New Delhi                       | Civil | Prof. R.R Singh   | Vetting/Proof checking of 50 sites                |
| 2658 | Const.  | Ext. Engineer, HUDA Division No. 2, Gurgaon               | Civil | Prof. S. K. Singh | Third Party Inspection                            |

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|------|--------|---|-------|---------------------|---|
| 2659 | Const. | M/s Sheltera Consultants, New Delhi                           | Civil | Prof. R.R Singh     | Vetting/Proof checking of 7 sites                 |
| 2660 | Const. | Resarch Officer, B&R Research Laboratory, Chandigarh          | Civil | Prof. Roshan Lal    | Testing of Samples                                |
| 2661 | Const. | M/s Continental Foundations, H.No- 1059, Sec-43/B, Chandigarh | Civil | Prof. Roshan Lal    | Proof. Checking of Structural Design              |
| 2662 | Const. | M/s Continental Foundations, H.No- 1059, Sec-43/B, Chandigarh | Civil | Prof. Roshan Lal    | Proof. Checking of Structural Design              |
| 2663 | Const. | M/s Continental Foundations, H.No- 1059, Sec-43/B, Chandigarh | Civil | Prof. Roshan Lal    | Consultancy for Structural Design                 |
| 2664 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2665 | Const. | M/s EPC Engineering and Planning Consultants, Delhi           | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2666 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2667 | Const. | M/s Jaiprakash Associates Ltd., Chandigarh                    | Civil | Prof. Roshan Lal    | Request for Physical Testing of our OPC cement    |
| 2668 | Const. | SDE Roads Sub Division No. 1, M.C Chandigarh                  | Civil | Prof. Roshan Lal    | Design Mix M-25                                   |
| 2669 | Const. | Sh. Surbah Gupta C/o District Forum - 1, Chandigarh           | Mech. | Prof. Sushant Samir | Inspection of Vehicle                             |
| 2670 | Const. | M/s Continental Foundations, H.No- 354, Sec-44/A, Chd.        | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design              |

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|------|--------|--|----------|---------------------|---|
| 2671 | Const. | M/s Sheltera Consultants, New Delhi                    | Civil    | Prof. R.R Singh     | Vetting/Proof checking of 25 sites                |
| 2672 | Const. | M/s Sheltera Consultants, New Delhi                    | Civil    | Prof. R.R Singh     | Vetting/Proof checking of 25 sites                |
| 2673 | Const. | Sh. Ramesh Bamar C/o District Forum - II, Chandigarh   | Mech.    | Prof. Sushant Samir | Inspection of Vehicle                             |
| 2674 | Const. | Ext. Engineer, HUDA Faridabad                          | Civil    | Prof. P. K. Gupta   | Third Party Inspection                            |
| 2675 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala  | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2676 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala  | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2677 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala  | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2678 | Const. | Chief Engineer, PUDA, PUDA Bhawan Building, Mohali     | App. Sci | Prof. Vasundhara    | Testing of Cement Mortar                          |
| 2679 | Const. | M/s Creative Consultant, Sector - 67, Mohali           | Civil    | Prof. S.K Verma     | Proof. Checking of Structural Design and Drawings |
| 2680 | Const. | M/s Creative Consultant, Sector - 67, Mohali           | Civil    | Prof. S.K Verma     | Proof. Checking of Structural Design and Drawings |
| 2681 | Const. | M/s Continental Foundations, H.No- 354, Sec-44/A, Chd. | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design              |
| 2682 | Const. | Ext. Engineer, HUDA Division No. 1, Hisar              | Civil    | Prof. S.K Verma     | Construction of Gymkhana Club, Sector - 9, Jind   |

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|------|---------|---|----------|--------------------|---|
| 2683 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil    | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |
| 2684 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil    | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |
| 2685 | Const.  | SDE Provubcial Sub Division No. 1, PWD B&R Gohana           | Civil    | Prof. Umesh Sharma | Providing Widening strengthening on NH-71A          |
| 2686 | Const.  | M/s Creative Consultant, Sector - 67, Mohali                | Civil    | Prof. S.K Verma    | Proof. Checking of Structural Design and Drawings   |
| 2687 | Const.  | Chief Engineer, (IP), Pb. PWD B&R Branch, Chandigarh        | Civil    | Prof. Roshan Lal   | Proof. Checking of Structural Design and Drawings   |
| 2688 | Testing | Sub Divisional Engineer, Constr. Sub. Division No. 12, Chd. | Civil    | Prof. Roshan Lal   | Testing of Concrete Samples                         |
| 2689 | Const.  | M/s Mega Engineering & Geotechnical Services, Ghaziabad     | App. Sci | Prof. L.N Sharma   | Consultancy Services for work of Petro Graphic Test |
| 2690 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil    | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |
| 2691 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil    | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |
| 2692 | Const.  | M/s VAS Design & Infrastructure Consultants (P) Ltd. Delhi  | Civil    | Prof. R.R Singh    | Proof Checking of Structural Design/Drawings        |
| 2693 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil    | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings   |
| 2694 | Const.  | M/s S.P Singla Construction Pvt Ltd., New Delhi             | Civil    | Prof. P. K. Gupta  | Testing of Concrete Samples                         |

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|------|---------|---|-------|-------------------|---|
| 2695 | Testing | M/s Synergy Thrislington, Solan, Himachal Pradesh           | Civil | Prof. P. K. Gupta | Sample Testing of PUF Panels                |
| 2696 | Testing | SDE, M.C.P.H Sub Division No.11, Chandigarh                 | Civil | Prof. P. K. Gupta | Cubes Test RCC UGR Capacity, 100000 Gallons |
| 2697 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |
| 2698 | Testing | M/s National Tile Corp., Raipur Rani, Panchkula, HR         | Civil | Prof. Roshan Lal  | Testing of Pre Polished Tiles               |
| 2699 | Testing | SDE, Sub Division No.12, Const., Chandigarh                 | Civil | Prof. Roshan Lal  | Testing of Cubes                            |
| 2700 | Testing | CEO, PEC-CCE, PEC University of Technology, Chandigarh      | Civil | Prof. Roshan Lal  | Testing of Bricks for HUDA Works            |
| 2701 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |
| 2702 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |
| 2703 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |
| 2704 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |
| 2705 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |
| 2706 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Drawings/Designs      |



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|------|---------|---|-------|---------------------|--|
| 2707 | Const.  | SDE Provincial Sub Division No. 2, PWD B&R Rewari           | Civil | Prof. P. K. Gupta   | Job Mix Design                         |
| 2708 | Const.  | SDE Provincial Sub Division No. 2, PWD B&R Rewari           | Civil | Prof. P. K. Gupta   | Job Mix Design                         |
| 2709 | Const.  | Dist. Consumer Redressal Forum, Mohali                      | Mech. | Prof. Sushant Samir | Inspection of Car                      |
| 2710 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Drawings/Designs |
| 2711 | Testing | M/s Hemkunt Infratech Pvt. Ltd., Gurgaon                    | Civil | Prof. Roshan Lal    | Testing of Martial - Corse Aggregate   |
| 2712 | Const.  | Superintending Engineer, Improvement Trust, Jalandhar       | Civil | Prof. P. K. Gupta   | Design of Road Crust                   |
| 2713 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Drawings/Designs |
| 2714 | Const.  | AARAV & Associates, Structural Engg.& Architect, Mohali     | Civil | Prof. P. K. Gupta   | Proof Checking of Design/Drawings      |
| 2715 | Const.  | M/s A.K Gupta, NAC Mani Major, Chandigarh                   | Civil | Prof. P. K. Gupta   | Proof Checking of Hospital Building    |
| 2716 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Drawings/Designs |
| 2717 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Drawings/Designs |
| 2718 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Counter Checking of Designs/ Drawings  |

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|------|--------|---|-------|--------------------|---|
| 2719 | Const. | M/s Creative Consultant, Sector - 67, Mohali                | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Drawings                          |
| 2720 | Const. | M/s VAS Design & Infrastructure Consultants (P) Ltd. Delhi  | Civil | Prof. R.R Singh    | Proof Checking of Structural Design/Drawings                    |
| 2721 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings               |
| 2722 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings               |
| 2723 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings               |
| 2724 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings               |
| 2725 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings               |
| 2726 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings               |
| 2727 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal   | Vetting of Structural Designs /Drawings                         |
| 2728 | Const. | M/s Nagi & Associates, S.A.S Nagar, Mohali                  | Civil | Prof. Roshan Lal   | Vetting of Structural Designs /Drawings                         |
| 2729 | Const. | SDE Road Sub Division No. 3, M.C Chandigarh                 | Civil | Prof. Umesh Sharma | Recarpetting of Vidya Path, Dividing Sec 2 & 11 and Sec 11 & 12 |
| 2730 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal   | Vetting of Structural Designs /Drawings                         |

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|------|--------|---|--------|-----------------------|---|
| 2731 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Reissue of certificate of already vetted Tower sites by PEC                   |
| 2732 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Designs /Drawings                                       |
| 2733 | Const. | SDE Electrical Sub Division No. 6, Chandigarh               | Elect. | Prof. Balwinder Singh | Power and Current determination of LED Street Luminaries                      |
| 2734 | Const. | M/s Aarav & Associates, Banur, Mohali, Punjab               | Civil  | Prof. P. K. Gupta     | Proof. Checking of Structural Design and Drawings                             |
| 2735 | Const. | Deputy Commissioner, M.C S.A.S Nagar Mohali                 | Civil  | Prof. Shakti Kumar    | Technical advice for connecting sewage from 1000 flats to existing sewer line |
| 2736 | Const. | Exective Engineer, HUDA Division No. 3, Faridabad           | Civil  | Prof. P. K. Gupta     | Third Party Inspection  |
| 2737 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Designs /Drawings for 12 sites                          |
| 2738 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Designs /Drawings                                       |
| 2739 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Designs /Drawings for 6M high Roof Top Pole             |
| 2740 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Designs /Drawings for 2 sites                           |
| 2741 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Designs /Drawings for 7 sites                           |
| 2742 | Const. | M/s Subhash Anita & Associates, Sec- 22/B, Chandigarh       | Civil  | Prof. P. K. Gupta     | Structure Vetting/Proof checking of building                                  |

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|------|---------|---|-------|---------------------|---|
| 2743 | Const.  | M/s Continental Foundations, Sector- 43/B, Chandigarh       | Civil | Prof. P. K. Gupta   | Proof checking of petty structures                                    |
| 2744 | Const.  | M/s A.K Gupta, Anish /construction Paunchkula               | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                     |
| 2745 | Const.  | Suresh Singla C/o Distt. Forum - II, Chandigarh             | Mech. | Prof. Sushant Samir | Inspection of Car   |
| 2746 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                     |
| 2747 | Const.  | Executive Engineer, Provl. Div. No. 3, PWD B&R Br. Rohtak   | Civil | Prof. P. K. Gupta   | Job Mix Formula   |
| 2748 | Testing | M/s S.P Singla Constution Pvt Ltd., New Delhi               | Civil | Prof. P. K. Gupta   | Testing of Cubes for compressive strength                             |
| 2749 | Testing | Sub Div. Engineer, W/S & Sanitation, Sub Div No11, Mohali   | Civil | Prof. Roshan Lal    | Testing of material for sewerage scheme                               |
| 2750 | Testing | Sub Div. Engineer, (C-3) o/o Divisional Engineer, GMADA     | Civil | Prof. Roshan Lal    | Testing of Pavers blocks- 60MM  |
| 2751 | Const.  | Rahnit Singh C/o Distt. Forum - II, Chandigarh              | Mech. | Prof. Sushant Samir | Inspection of Car   |
| 2752 | Testing | M/s Ajanta Coop. Hosue Building (Ist) Society Ltd. Chd.     | Civil | Prof. Roshan Lal    | Testing of interlocking concrete Pavers blocks                        |
| 2753 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings for 1 sites                   |
| 2754 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings for Fire Station at Dharuhera |

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|------|--------|--|----------|---------------------|---|
| 2755 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali    | Civil    | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings                           |
| 2756 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali    | Civil    | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings                           |
| 2757 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali    | Civil    | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings                           |
| 2758 | Const. | M/s Fortune Multitech Pvt. Ltd. Panchkula                      | Civil    | Prof Sarita Singla  | Vetting of Structural Designs /Drawings                           |
| 2759 | Const. | M/s Aarav & Associates, Banur, Mohali, Punjab                  | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                 |
| 2760 | Const. | AEE Civil, Assistant Garrison Engg., B&R, Nahan H.P            | Civil    | Prof. P. K. Gupta   | Design Mix M-25, M-30   |
| 2761 | Const. | M/s Creative Consultant, Sector - 67, Mohali                   | Civil    | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                 |
| 2762 | Const. | M/s Balahi Towers, Zirakpur, Mohali, Punjab                    | Civil    | Prof Sarita Singla  | Vetting of Structural Drawings of flats                           |
| 2763 | Const. | Amit Thaman C/o Dist Const Dispute Redressal Forum, Chandigarh | Mech.    | Prof. Sushant Samir | Inspection of Car   |
| 2764 | Const. | M/s Royale Mansions, Zirakpur, Mohali                          | Civil    | Prof Sarita Singla  | Vetting of Structural Drawings of flats                           |
| 2765 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali    | Civil    | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings for 12 sites              |
| 2766 | Const. | L&T Himachal Hydropower, Dwarka, New Delhi                     | App. Sci | Prof. L.N Sharma    | Consult. for Lineament Studies of the Sach-Khas & Reoli-Dugli HEP |

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|------|---------|---|-------|-------------------|---|
| 2767 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Designs /Drawings for Nirman Sadan at Kaithal |
| 2768 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings                   |
| 2769 | Const.  | SDE, Central Works Sub Div. No 3, PWD B&R Mohali            | Civil | Prof. P. K. Gupta | Job mix formula for 30mm thick B.C Grading -2                       |
| 2770 | Const.  | M/s Sheltera Consultants, New Delhi                         | Civil | Prof. R.R Singh   | Vetting / Proof Checking of 25 sites                                |
| 2771 | Const.  | M/s Creative Consultant, Sector - 67, Mohali                | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings                   |
| 2772 | Const.  | SDE, M.C.P.H Sub Division No.3, Chandigarh                  | Civil | Prof. S.K Verma   | Checking of Design Mix M 30   |
| 2773 | Testing | M/s Ajanta Coop. House Building (Ist) Society Ltd. Chd.     | Civil | Prof. Roshan Lal  | Testing of interlocking concrete Pavers blocks                      |
| 2774 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Designs /Drawings                             |
| 2775 | Const.  | Ext. Engg. Ash Dykes Div. GGSSTP, Rupnagar, Punjab          | Civil | Prof. S.K Singh   | Raising of Ash Dykes of stage -1 using fly ash as hearing material  |
| 2776 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Designs /Drawings                             |
| 2777 | Const.  | M/s Rohan Rajdeep Highways Ltd, Pune                        | Civil | Prof. P. K. Gupta | Proof Checking of RCC Design/Drawings                               |
| 2778 | Const.  | M/s S.P Singla Construction Pvt Ltd., New Delhi             | Civil | Prof. P. K. Gupta | Construction of 3 lane High Level Bridge                            |

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|------|---------|---|--------|---------------------|---|
| 2779 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil  | Prof. P. K. Gupta   | Proof. Checking of Structural Design              |
| 2780 | Const.  | M/s Hydrotech Paryavaran India Pvt. Ltd., Mohali              | Civil  | Prof. Siby John     | Vetting of Designs/Drawings of STP (0.5 MLD)      |
| 2781 | Testing | M/s Wapcos Limited, Manimajra, Chandigarh                     | Civil  | Prof. Roshan Lal    | Testing of Concrete Cubes samples                 |
| 2782 | Const.  | M/s Continental Foundations, Sector- 43/B, Chandigarh         | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design               |
| 2783 | Const.  | M/s ASC Builders Pvt. Ltd., Bathinda, Punjab                  | Civil  | Prof. R.R Singh     | Mix Design of M-20, M-30                          |
| 2784 | Const.  | M/s Sheltera Consultants, New Delhi                           | Civil  | Prof. R.R Singh     | Vetting / Proof Checking of 25 sites              |
| 2785 | Const.  | M/s Leighton Welspun Contractors Pvt. Ltd., Mumbai            | Civil  | Prof. Roshan Lal    | Vetting of Designs/Drawings                       |
| 2786 | Const.  | Garrison Engineer, Hissar Milt. Station, Hissar               | Civil  | Prof. Roshan Lal    | Vetting of Structural Designs /Drawings           |
| 2787 | Const.  | Astt. Ext. Engg. TLSC Civil Division, PSTCL Mohali            | Civil  | Prof. Sarita Singla | Design Mix M-20                                   |
| 2788 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil  | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2789 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil  | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings |
| 2790 | Const.  | Chd. Renewal Energy Sci & Tech., Paryavaran Bhwan, Chandigarh | Elect. | Prof. S.K Suman     | Third Party Inspection                            |

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|------|--------|---|-------|---------------------|---|
| 2791 | Const. | M/s GMR Ambala-Chnadigarh Expressways, Bangalore            | Civil | Prof. P. K. Gupta   | Roughness survey by fifth wheel bump integrator                   |
| 2792 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings                 |
| 2793 | Const. | M/s Himachal Techno Engineer, Hamirpur, H.P                 | Civil | Prof. S.K Verma     | Vetting of Structural Drawings                                    |
| 2794 | Const. | M/s SDB Infrastrure Pvt. Ltd., Sector - 116, Mohali, Punjab | Civil | Prof. Roshan Lal    | Checking of Structural Design/Drawings                            |
| 2795 | Const. | Divisional Forest Officer, Forest Department, Haryana       | Civil | Prof. S.K Singh     | Checking site suitability of site for Geo-Technical Consideration |
| 2796 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Vetting of Structural Design/Drawings                             |
| 2797 | Const. | M/s National Engineering Projects Consultants, Chandigarh   | Civil | Prof. Roshan Lal    | Proof checking of Structural Design                               |
| 2798 | Const. | M/s Emm TEE Constructions, Mohali, Punjab                   | Civil | Prof. Roshan Lal    | Vetting & Approval of Foundation Design and Drawings              |
| 2799 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta   | Proof Consultancy for checking of Design/Drawings of bridges      |
| 2800 | Const. | Ext. Engg., HUDA Div. No. 1, Panchkula                      | Civil | Prof. P. K. Gupta   | Vetting of Structural Design                                      |
| 2801 | Const. | SDE, M.C.P.H Sub Division No.11, Chandigarh                 | Civil | Prof. P. K. Gupta   | Cement Concrete sample testing for construction of UGR            |
| 2802 | Const. | Sh. Budh Singh C/o Distt Forum - I, Chandigarh              | Mech. | Prof. Sushant Samir | Inspection of Vehicle   |



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|------|--------|--|-------|------------------------|---|
| 2803 | Const. | Ext. Engg., Jag. Provl. Div. No. 3, PWD B&R<br>Br. Y. Nagar    | Civil | Prof. P. K.<br>Gupta   | Proof. Checking of Structural Design and Drawings                   |
| 2804 | Const. | M/s Sheltera Consultants, New Delhi                            | Civil | Prof. R.R<br>Singh     | Vetting / Proof Checking of 25 sites                                |
| 2805 | Const. | M/s Sheltera Consultants, New Delhi                            | Civil | Prof. R.R<br>Singh     | Vetting / Proof Checking of 25 sites                                |
| 2806 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase<br>- VII, Mohali | Civil | Prof. Roshan<br>Lal    | Vetting of Structural Design/Drawings                               |
| 2807 | Const. | M/s Vishal Parmar, VPO- Samar Gopal Pur,<br>Rohtak             | Civil | Prof. Sarita<br>Singla | Verification of Test Report and By-Laws - Construction Work         |
| 2808 | Const. | M/s Tech-Pecific Structural Consultants, Sec-<br>79, Mohali    | Civil | Prof. Roshan<br>Lal    | Proof checking of Strength fo existing Deck of High Level<br>Bridge |
| 2809 | Const. | SDE Provincial Sub Division No. IV, PWD B&R<br>Gurgaon         | Civil | Prof. P. K.<br>Gupta   | Preparation of Job Mix Formula                                      |
| 2810 | Const. | M/s EPC Engineering and Planning<br>Consultants, Delhi         | Civil | Prof. S.K<br>Verma     | Proof Checking of Design and Drawings                               |
| 2811 | Const. | M/s EPC Engineering and Planning<br>Consultants, Delhi         | Civil | Prof. S.K<br>Verma     | Proof Checking of Design and Drawings                               |
| 2812 | Const. | M/s EPC Engineering and Planning<br>Consultants, Delhi         | Civil | Prof. S.K<br>Verma     | Proof Checking of Design and Drawings                               |
| 2813 | Const. | Executive Engg., C.D, P.W.D, Roorkee                           | Civil | Prof. Roshan<br>Lal    | Proof Checking of Design and Drawings                               |
| 2814 | Const. | Xen, PWD, B&R, Sirhind, Punjab                                 | Civil | Prof. Umesh<br>Sharma  | Widening & Up gradation of G.T Road                                 |

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|------|---------|---|--------|-----------------------|--|
| 2815 | Const.  | Punjab Police Housing Corp. Ltd., Ph. VII, SAS Nagar        | Civil  | Prof. P. K. Gupta     | Construction of Vigilance Bhawan                             |
| 2816 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta     | Proof checking of Structural Design                          |
| 2817 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                        |
| 2818 | Const.  | M/s Tarun Mathur, Sector - 8/B, Chandigarh                  | Civil  | Prof. Roshan Lal      | Proof checking of Structural Design                          |
| 2819 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal      | Certificate of Safety & Stability                            |
| 2820 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta     | Proof Consultancy for checking of Design/Drawings of bridges |
| 2821 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta     | Proof Consultancy for checking of Design/Drawings            |
| 2822 | Testing | Executive Officer, Panchayati Samiti, Chandigarh            | Civil  | Prof. Roshan Lal      | Testing of Paver Blocks for Compressive Strength             |
| 2823 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta     | Proof Consultancy for checking of Design/Drawings            |
| 2824 | Const.  | M/s Welspun Projects Ltd., Lower Parel, Mumbai              | Elect. | Prof. Balwinder Singh | Vetting of Electrical Design of Project                      |
| 2825 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta     | Proof Consultancy for checking of Design/Drawings of bridges |
| 2826 | Const.  | Executive Engg., PWD B&R, Bahadurgarh                       | Civil  | Prof. P. K. Gupta     | Job Mix Design   |

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|------|---------|---|-------|---------------------|--|
| 2827 | Const.  | M/s S.A Associates, SCO-1106-07, Sec-22/B, Chandigarh | Civil | Prof. P. K. Gupta   | Third Party Appraisal of DPR                                 |
| 2828 | Const.  | M/s Marc Technocrats Pvt. Ltd., Bahadurgarh, Haryana  | Civil | Prof. P. K. Gupta   | Proof checking of Structure Design                           |
| 2829 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta   | Proof Consultancy for checking of Design/Drawings            |
| 2830 | Const.  | M/s Amba Sakti Ispat Ltd., Kala-Amb (H.P)             | Civil | Prof. R.R Singh     | Consultancy of Factory Shed (roof)                           |
| 2831 | Const.  | Sh. Dharam Vir C/o Distt Forum - I, Chandigarh        | Mech. | Prof. Sushant Samir | Inspection of Vehicle  |
| 2832 | Const.  | SDE Provincial Sub Division No. IV, PWD B&R Gurgaon   | Civil | Prof. P. K. Gupta   | Preparation of Job Mix Formula                               |
| 2833 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta   | Proof Consultancy for checking of Design/Drawings of bridges |
| 2834 | Const.  | M/s EPC Engineering and Planning Consultants, Delhi   | Civil | Prof. S.K Verma     | Proof Checking of Design and Drawings                        |
| 2835 | Const.  | Executive Engineer, HUDA, Division, Rewari            | Civil | Prof. P. K. Gupta   | Third Party Inspection                                       |
| 2836 | Const.  | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala | Civil | Prof. P. K. Gupta   | Proof Checking of Design and Drawings                        |
| 2837 | Testing | M/s Wapcos Limited, Manimajra, Chandigarh             | Civil | Prof. Roshan Lal    | Testing of Cement Concrete Cube Samples                      |

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|------|---------|--|----------|----------------------|--|
| 2838 | Const.  | Sub Divisional Magistrate(c), U.T Chandigarh                   | Civil    | Prof. Roshan Lal     | Expert Report on Structure Stability and related issues  |
| 2839 | Const.  | M/s K. Soni Builders, Sector -44C, Chandigarh                  | Civil    | Prof. Sarita Singla  | Vetting of Structural Drawings of Flats                  |
| 2840 | Testing | M/s Wapcos Limited, Manimajra, Chandigarh                      | Civil    | Prof. Roshan Lal     | Testing of Cement Concrete Cube Samples                  |
| 2841 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali    | Civil    | Prof. Roshan Lal     | Vetting of Structural Design/Drawings                    |
| 2842 | Const.  | M/s Sheltera Consultants, New Delhi                            | Civil    | Prof. R.R Singh      | Vetting / Proof Checking of 25 sites                     |
| 2843 | Testing | M/s Raunki Ram, Vill- Nagla Khalsa, Dist. Yamunanagar          | App. Sci | Prof. Harminder Kaur | Testing of Concrete Samples                              |
| 2844 | Const.  | Chd. Renewal Engergy Sci & Tech, Paryavaran Bhawan, Chd        | Elect.   | Prof. S.K Suman      | Third Party Inspection                                   |
| 2845 | Const.  | M/s National Engineering Projects Consultants, Chandigarh      | Civil    | Prof. Roshan Lal     | Proof checking of Structural Design                      |
| 2846 | Const.  | Assistant Engineer, K. Central Sub Division, CPWD, Kurukshetra | Civil    | Prof. Roshan Lal     | C/o Boundary wall 800 m length & gate at NIT Kurukshetra |
| 2847 | Const.  | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali    | Civil    | Prof. Roshan Lal     | Vetting of Structural Design/Drawings                    |
| 2848 | Const.  | M/s National Engineering Projects Consultants, Chandigarh      | Civil    | Prof. Roshan Lal     | Proof checking of Structural Design                      |

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|------|--------|---|-------|-------------------|--|
| 2849 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings  |
| 2850 | Const. | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings  |
| 2851 | Const. | M/s Makkar Construction Co. Maya Nagar, Ludhiana            | Civil | Prof. Roshan Lal  | Design Mix M-20                        |
| 2852 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof Checking of Design and Drawings  |
| 2853 | Const. | Ext. Engg. Central Work Div. PWD B&R, Patiala               | Civil | Prof. P. K. Gupta | Job Mix Formula for Periodical Renewal |
| 2854 | Const. | Ext. Engg. Central Work Div. PWD B&R, Patiala               | Civil | Prof. P. K. Gupta | Job Mix Formula for Periodical Renewal |
| 2855 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof Checking of Design and Drawings  |
| 2856 | Const. | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof Checking of Design and Drawings  |

## CONSULTANCY RECORDS FOR THE YEAR 2014-2015

| Ref No. | Type of Project | Agency   | Deptt. | PI's Name           | Project Title  |
|---------|-----------------|--|--------|---------------------|--|
| 2857    | Consultancy     | Ext. Engg. PWD B&R Patiala                       | Civil  | Prof. P. K. Gupta   | Job Mix Formula  |
| 2858    | Consultancy     | Ext. Engg. PWD B&R Hoshiarpur                    | Civil  | Prof. P. K. Gupta   | Job Mix Formula  |
| 2859    | Consultancy     | CREST, Chandigarh Administration (PEC-CCE)       | Elect. | Prof. S.K Suman     | Third party inspection of various SPV power plants                         |
| 2860    | Consultancy     | Dist. Consumer Redressal Forum, Panchkula        | Mech.  | Prof. Sushant Samir | Inspection of Golf Cart  |
| 2861    | Consultancy     | M/s Continental Foundations Chandigarh           | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design  |
| 2862    | Consultancy     | M/s Continental Foundations Chandigarh           | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design  |
| 2863    | Consultancy     | M/s Continental Foundations Chandigarh           | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design  |
| 2864    | Consultancy     | M/s Hydrotech Paryavaran India Pvt. Ltd., Mohali | Civil  | Prof. Siby John     | Vetting and approval of Architectural & Structural Drawings & calculations |

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|------|-------------|---|-------|-------------------|---|
| 2865 | Consultancy | M/s SA & Associates, Chandigarh                             | Civil | Prof. P. K. Gupta | Vetting of Structural Designs                     |
| 2866 | Consultancy | M/s Consulting Engineers Associates, Panchkula              | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design               |
| 2867 | Consultancy | M/s Larson & Toubro, Construction, Chennai                  | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design/Drawings      |
| 2868 | Testing     | SDE, MCPH, Sub. Division No. 9, Chandigarh                  | Civil | Prof. P. K. Gupta | Testing of Concrete Cubes                         |
| 2869 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas Vihar, Ambala        | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2870 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings             |
| 2871 | Consultancy | Er. Gobind Khurana, Urban Estate, Jalandhar                 | Civil | Prof. Roshan Lal  | Checking of Structural Design                     |
| 2872 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                  | Civil | Prof. P. K. Gupta | Proof. Checking of Structural Design and Drawings |
| 2873 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                  | Civil | Prof. S.K Verma   | Proof. Checking of Structural Design and Drawings |
| 2874 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                  | Civil | Prof. S.K Verma   | Proof. Checking of Structural Design and Drawings |
| 2875 | Consultancy | Ext. Engg., C.P Div. No. 4, Chandigarh                      | Civil | Prof. P. K. Gupta | Vetting of Structural Design                      |

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|------|-------------|---|--------|---------------------|--|
| 2876 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                  | Elect. | Prof. S.K Suman     | Third party inspection of various SPV power plants |
| 2877 | Consultancy | Punjab Institute of Technology, Mohali                      | Mech.  | Prof. A. Manna      | Practical Classes of PIT Mohali                    |
| 2878 | Consultancy | Punjab Institute of Technology, Mohali                      | E&EC   | Prof. Jasbir Kaur   | To conduct Lab VI for 4th semester students of PIT |
| 2879 | Consultancy | M/s Sheltera Consultants, New Delhi                         | Civil  | Prof. P. K. Gupta   | Vetting / Proof Checking of 25 sites               |
| 2880 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta   | Proof. Checking of Structural Design and Drawings  |
| 2881 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                  | Elect. | Prof. S.K Suman     | Third party inspection of various SPV power plants |
| 2882 | Consultancy | General Motors India Ltd. Gurgaon c/o Dist. Forum - II, Chd | Mech.  | Prof. Sushant Samir | Inspection of Vehicle                              |
| 2883 | Consultancy | Punjab Institute of Technology, Mohali                      | Elect. | Prof. Jagdish Kumar | To conduct Lab IV for 4th semester students of PIT |
| 2884 | Consultancy | M/s Nitasha Constructions, Ind. Area, Ph.-2, Chandigarh     | Civil  | Prof. Roshan Lal    | Design Mix - M-30                                  |
| 2885 | Testing     | M/s R.S Green Infra (India) Private Ltd., Nalagarh, H.P     | Civil  | Prof. Sarita Singla | Testing of blocks                                  |
| 2886 | Consultancy | M/s Aggrawal Consulting Engg., New Delhi                    | Civil  | Prof. Sarita Singla | Vetting of Structural Design/Drawings              |



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|------|-------------|---|----------|-----------------------|--|
| 2887 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil    | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                |
| 2888 | Testing     | SDO, Water Resources Inv. S/D No. 3, Sector-17/C, Chd.      | Civil    | Prof. Roshan Lal      | Testing of RCC Cubes                                 |
| 2889 | Consultancy | SDE, Electrical Sub. Division No. 11, Chandigarh            | Elect.   | Prof. Balwinder Singh | Inspection of Street Lighting work                   |
| 2890 | Testing     | Director, Khadi and Village Industries Commission GOI, Chd  | App. Sci | Prof. Harminder Kaur  | Testing of samples for repair work of Staff Quarters |
| 2891 | Consultancy | RITES Limited, SCOPE Minar, Laxmi Nagar, Delhi              | Civil    | Prof. P. K. Gupta     | Mix Design M- 25 & M-30                              |
| 2892 | Consultancy | SDE Provincial Sub Div. No. III, PWD B&R Br, Gharaunda      | Civil    | Prof. P. K. Gupta     | Design of CC Payment of Wdg. & Stg.                  |
| 2893 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil    | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                |
| 2894 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil    | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                |
| 2895 | Consultancy | RITES Limited, SCOPE Minar, Laxmi Nagar, Delhi              | Civil    | Prof. Roshan Lal      | Mix Design M- 25 & M-30                              |
| 2896 | Consultancy | Ext. Engg. HUDA Division No. 5, Gurgaon HR                  | Civil    | Prof. P. K. Gupta     | Third party inspection                               |
| 2897 | Consultancy | M/s Sheltera Consultants, New Delhi                         | Civil    | Prof. R.R Singh       | Vetting / Proof Checking of 25 sites                 |

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| 2898 | Consultancy | Haryana State Roads & Bridges Development Corp. Ltd. Jhajjar | Civil     | Prof. P. K. Gupta  | Proof Checking of Bridge Design                                |
| 2899 | Consultancy | Ext. Engg. Central Works Div. PWD B&R Branch, Patiala        | Civil     | Prof. P. K. Gupta  | Job Mix Formula for road works                                 |
| 2900 | Consultancy | Ext. Engg. Central Works Div. PWD B&R Branch, Patiala        | Civil     | Prof. P. K. Gupta  | Job Mix Formula for road works                                 |
| 2901 | Consultancy | Ext. Engg. Provincial Div. No. 2, PWD B&R Br, Ambala Cantt.  | Civil     | Prof. Umesh Sharma | Design of Cement Concrete Payment                              |
| 2902 | Consultancy | SDE Road Sub Div. No. 2, MC, Chandigarh                      | Civil     | Prof. Umesh Sharma | Carrying out design of strengthening of land between Sec 39/40 |
| 2903 | Consultancy | M/s Sarvodya Construction Co. Kamla Nagar, Rewari, HR        | Civil     | Prof. Umesh Sharma | Job Mix Formula for road works                                 |
| 2904 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali  | Civil     | Prof. Roshan Lal   | Vetting of Structural Design/Drawings                          |
| 2905 | Cancelled   | Cancelled  | Cancelled | Cancelled          | Cancelled  |
| 2906 | Consultancy | Ext. Engg. HUDA Division No. 3, Faridabad HR                 | Civil     | Prof. P. K. Gupta  | Construction of Master Roads, Faridabad                        |
| 2907 | Consultancy | Ext. Engg. C.P Divn. No. 4, Chandigarh                       | Civil     | Prof. S.K Verma    | Post Work Audit of the Project                                 |
| 2908 | Consultancy | M/s Sheltera Consultants, New Delhi                          | Civil     | Prof. P. K. Gupta  | Vetting / Proof Checking of 25 sites                           |

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| 2909 | Consultancy | Executive Engineer II, Chandigarh Housing Board, Chd.         | Civil | Prof. Umesh Sharma | Vetting of Design for Construction of Internal V-6 & V-5 Roads in Sec 63 |
| 2910 | Consultancy | M/s Sudhir Power Projects Ltd. Nehru Place, New Delhi         | Civil | Prof. S.K Verma    | Vetting/Checking of Building Drawings                                    |
| 2911 | Consultancy | Airports Authority of India, Chandigarh Airport, Chandigarh   | Civil | Prof. S.K Singh    | Structural Vetting of Highmast Foundation Design                         |
| 2912 | Consultancy | SDE Provincial Div. No. IV, (NH) PWD B&R Br, Ambala           | Civil | Prof. S.K Singh    | Bed Protection Work of Bridge between Naraingarh and Kala Amb            |
| 2913 | Consultancy | M/s EPC Engineering and Planning Consultant, N. Delhi         | Civil | Prof. S.K Verma    | Proof Checking of Design & Drawings of Span Truss Bridges                |
| 2914 | Consultancy | GMADA, PUDA Bhawan, Sector- 62, SAS Nagar, Punjab             | Civil | Prof. Umesh Sharma | Technical Investigation for Widening & Strengthening of Road             |
| 2915 | Consultancy | Haryana State Roads & Bridges Development Corp. Ltd. Gurgaon  | Civil | Prof. P. K. Gupta  | Proof Checking of Bridge Design  |
| 2916 | Consultancy | Haryana State Roads & Bridges Development Corp. Ltd. Jhajjar  | Civil | Prof. P. K. Gupta  | Proof Checking of Bridge Design  |
| 2917 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings                        |
| 2918 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings                        |
| 2919 | Consultancy | Ext. Engg. Construction. Division. Hr. PWD B&R Br. Chandigarh | Civil | Prof. P. K. Gupta  | Design for protection of bridge  |

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| 2920 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh    | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design              |
| 2921 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh    | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design              |
| 2922 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh    | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design              |
| 2923 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh    | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design              |
| 2924 | Consultancy | M/s Sheltera Consultants, New Delhi                        | Civil  | Prof. P. K. Gupta     | Vetting / Proof Checking of 25 sites             |
| 2925 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh    | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design              |
| 2926 | Consultancy | M/s Tarun Mathur, # 764, Sector - 8/B, Chandigarh          | Civil  | Prof. S.K Verma       | Proof Checking of Structural Design              |
| 2927 | Consultancy | SBI Regional Business office, Panchkula, Haryana           | Civil  | Prof. S.K Verma       | Proof Checking of Structural Design              |
| 2928 | Consultancy | M/s Welspun Projects Ltd. Alkapuri, Baroda, Gujarat        | Elect. | Prof. Balwinder Singh | Vetting of Electrical Design                     |
| 2929 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala      | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings |
| 2930 | Consultancy | Ext. Engg. Delhi Development Authority, Vikas Minar, Delhi | Civil  | Prof. P. K. Gupta     | Examination of Transit Camp                      |

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|------|-------------|---|--------|--------------------|---|
| 2931 | Consultancy | Ext. Engg. (CMU) State Road Project, HPRIDC, Shimla         | Civil  | Prof. Umesh Sharma | Investigation of Cracks Developed in newly upgraded road              |
| 2932 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings                     |
| 2933 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                  | Elect. | Prof. S.K Suman    | Third Party Inspection of SPV Plant at Sector - 16, Chandigarh        |
| 2934 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                  | Elect. | Prof. S.K Suman    | Third Party Inspection of various SPV Plants in Chandigarh            |
| 2935 | Testing     | Govt. of India, Central Vigilance Commission, N. Delhi      | Civil  | Prof. R.R Singh    | Testing of Samples  |
| 2936 | Consultancy | Executive Engineer, Bhakra Main Line Division, Patiala      | Civil  | Prof. P. K. Gupta  | Weir across river Ghaggar, Near Chhatbir, Punjab                      |
| 2937 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil  | Prof. P. K. Gupta  | Proof. Checking of Structural Design and Drawings                     |
| 2938 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                  | Elect. | Prof. S.K Suman    | Third Party Inspection of SPV Plants at Punjab Raj Bhawan, Chandigarh |
| 2939 | Consultancy | M/s Nagi & Associates, 1085, Sec- 71, Mohali, Punjab        | Civil  | Prof. Roshan Lal   | Vetting of Structural Design  |
| 2940 | Consultancy | Divisional Engineer (C-1) & Project GMADA S A S Nagar       | Civil  | Prof. Roshan Lal   | Proof Checking of Structural Design/Drawings of Bridge                |
| 2941 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal   | Vetting of Structural Design/Drawings                                 |

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| 2942 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil   | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                     |
| 2943 | Consultancy | M/s Chopra Consulting Engineers, Sec-21/B, Chandigarh       | Civil   | Prof. Roshan Lal      | Checking of Structural Design/Drawings                    |
| 2944 | Consultancy | Ext. Engg. (P), H.S.A.M. Board, Apple Market, Sec-20, PKL   | Civil   | Prof. Roshan Lal      | Vetting of Structural Glazing Design                      |
| 2945 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil   | Prof. Roshan Lal      | Vetting of Structural Design/Drawings                     |
| 2946 | Consultancy | Govt. of India, Central Vigilance Commission, N. Delhi      | Metta.  | Prof. R.K. Mahajan    | Mass of Zinc Coating m25mm GI Pipe                        |
| 2947 | Consultancy | SDE, Electrical Sub. Division No. 10, Chandigarh            | Elect.  | Prof. Balwinder Singh | Inspection of Street Lighting work                        |
| 2948 | Testing     | Punjab Water Supply and Sewerage Board, Amritsar, Pb.       | App.Sci | Prof. Harminder Kaur  | Testing of Cement Concrete and Cement Sand Mortar Samples |
| 2949 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil   | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings          |
| 2950 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil   | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings          |
| 2951 | Consultancy | Ext. Engg. C.P Division. No. 4, Chandigarh                  | Civil   | Prof. S.K Verma       | Post Work Audit of the Project                            |
| 2952 | Consultancy | M/s Lectrix Motors Limited                                  | Metta.  | Prof. J.D Sharma      | Corrosion Behavior Analysis of Samples                    |

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| 2953 | Consultancy | Dist. Consumer Disputes Redressal Forum - 1, Chandigarh | Mech.  | Prof. Sushant Samir   | Inspection of Vehicle                            |
| 2954 | Consultancy | M/s Nagi & Associates, 1085, Sec- 71, Mohali, Punjab    | Civil  | Prof. Roshan Lal      | Vetting of Hydraulic, Structure and Gates Design |
| 2955 | Consultancy | SDE, Electrical Sub. Division No. 11, Chandigarh        | Elect. | Prof. Balwinder Singh | Inspection of Street Lighting work               |
| 2956 | Consultancy | OSD, Vigilance Cell, Sector - 9, Chandigarh             | Civil  | Prof. R.R Singh       | Consultancy/Testing, Vetting                     |
| 2957 | Consultancy | OSD, Vigilance Cell, Sector - 9, Chandigarh             | Civil  | Prof. R.R Singh       | Consultancy/Testing, Vetting                     |
| 2958 | Consultancy | M/s Shiv Shakti Fibre Udyog, Faridabad & Rohtak         | Civil  | Prof. Sarita Singla   | Vetting of Structural Design/Drawings            |
| 2959 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala   | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings |
| 2960 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala   | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings |
| 2961 | Consultancy | Ext. Engg. HUDA, Div. No. 3, SCO-25, Sec-12, Faridabad  | Civil  | Prof. P. K. Gupta     | Construction of Master Roads, Faridabad          |
| 2962 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala   | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings |
| 2963 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala   | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings |

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| 2964 | Consultancy | S A & Associates, SCO 1106-07, Sec-22/B, Chandigarh         | Civil  | Prof. P. K. Gupta   | Vetting of Structures                                      |
| 2965 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh     | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design                        |
| 2966 | Consultancy | M/s C&C Constructions Ltd. Phase - VI, Mohali               | Civil  | Prof. Tripta Goyal  | Crust Design of Flexible Pavement                          |
| 2967 | Consultancy | Surendera Dental College & Research Institute, Ganganagar   | Prod.  | Prof. N.M Suri      | Analysis & Measurement of Surface Roughness                |
| 2968 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                  | Elect. | Prof. S.K Suman     | Third Party Inspection of various SPV Plants in Chandigarh |
| 2969 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                  | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings           |
| 2970 | Consultancy | Ext. Engg. (D) B&R, Municipal Corporation, Ludhiana         | Civil  | Prof. P. K. Gupta   | Checking of Bitumen Contents                               |
| 2971 | Consultancy | M/s MCEPL, IGI Toll Plaza Building, Mahipalpur, N. Delhi    | Civil  | Prof. P. K. Gupta   | Job Mix Formula  |
| 2972 | Consultancy | State Bank of India, Local Head Office, Sec-17, Chandigarh  | Civil  | Prof. Sarita Singla | Request for RCC Mix Design M-25, M-30                      |
| 2973 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil  | Prof. Roshan Lal    | Vetting of Structural Design/Drawings                      |
| 2974 | Consultancy | Dist. Consumer Disputes Redressal Forum - 1, Chandigarh     | Mech.  | Prof. Sushant Samir | Inspection of Washing Machine                              |



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|------|-------------|--|--------|---------------------|--|
| 2975 | Consultancy | Anand Sales (India), Plot No 345, Focal Point, Ph-IX, Mohali | Civil  | Prof. Roshan Lal    | Approval of Drawings/Design of Structure & Foundation Gantry |
| 2976 | Consultancy | Ext. Engg. C.P Divn. No. 5, Chandigarh                       | Civil  | Prof. Roshan Lal    | Vetting of Structural Design                                 |
| 2977 | Testing     | M/s Ansal Lotus, Jantar Mantar Road, New Delhi               | Mech.  | Prof. D.R Prajapati | Testing of TMT Bars (14 pieces)                              |
| 2978 | Consultancy | IMTECH, Sector - 39- A, Chandigarh , U.T                     | Metta. | Prof. R.K. Mahajan  | Experts availing   |
| 2979 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala        | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings             |
| 2980 | Consultancy | Dist. Consumer Disputes Redressal Forum - 11, U.T Chd.       | Mech.  | Prof. Sushant Samir | Inspection of Vehicle  |
| 2981 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala        | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings             |
| 2982 | Consultancy | M/s Arya Structural Sollutions, Subhash Nagar, New Delhi     | Civil  | Prof. S.K Verma     | Vetting of Structural Drawings                               |
| 2983 | Consultancy | M/s National Engineering Projects Consultants, Chandigarh    | Civil  | Prof. Roshan Lal    | Proof Checking of Structural Designs                         |
| 2984 | Consultancy | M/s National Engineering Projects Consultants, Chandigarh    | Civil  | Prof. Roshan Lal    | Proof Checking of Structural Designs                         |
| 2985 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali  | Civil  | Prof. Roshan Lal    | Vetting of Structural Design/Drawings                        |

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| 2986 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal  | Vetting of Structural Design/Drawings            |
| 2987 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala       | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings |
| 2988 | Testing     | Executive Engineer (B&R) Quality Control, M.C Ludhiana      | Civil | Prof. P. K. Gupta | Testing of Samples                               |
| 2989 | Consultancy | Tarun Mathur Structural Consultant, # 764, Sec-8/B, Chd.    | Civil | Prof. S.K Verma   | Proof Checking of Structural Designs             |
| 2990 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                  | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings |
| 2991 | Consultancy | M/s Atcon Engineers, SCF 53, Phase-1, Baltana, Punjab       | Civil | Prof. S.K Sharma  | Vetting of Design                                |
| 2992 | Consultancy | M/s Continental Foundations, 1059, Sec-43/B, Chandigarh     | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design              |
| 2993 | Consultancy | M/s Kulbir Singh Contractor, Chandigarh                     | Civil | Prof. P. K. Gupta | Mix Design M-30                                  |
| 2994 | Consultancy | Chandigarh Housing Board, Sec- 9, Chandigarh                | Civil | Prof. Roshan Lal  | Design of Concrete Mix                           |
| 2995 | Consultancy | Chandigarh Housing Board, Sec- 9, Chandigarh                | Civil | Prof. Roshan Lal  | Design of Concrete                               |
| 2996 | Consultancy | M/s Sheltera Consultants Pvt. Ltd., New Delhi               | Civil | Prof. R.R Singh   | Proof Checking of sites                          |

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|------|-------------|---|--------|---------------------|---|
| 2997 | Consultancy | Executive Engineer, Ash Dykes, Mtc. Div, GGSSTP, Ropar    | Civil  | Prof. S.K Singh     | Consultancy for 4th raising of ash dykes of stage-I using fly ash |
| 2998 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                | Civil  | Prof. S.K Verma     | Proof Checking of Structural Design and Drawings                  |
| 2999 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                | Civil  | Prof. S.K Verma     | Proof Checking of Structural Design and Drawings                  |
| 3000 | Consultancy | Assistant Trust Engineer, City Improvement Trust, Sangrur | Civil  | Prof. Sarita Singla | Construction of footpath in Captain Karam Singh Nagar Scheme      |
| 3001 | Consultancy | M/s Creative Consultant, Sector-67, Mohali                | Civil  | Prof. S.K Verma     | Proof Checking of Structural Design and Drawings                  |
| 3002 | Consultancy | M/s EPC Engineering and Planning Consultant, N. Delhi     | Civil  | Prof. S.K Verma     | Proof Checking of Design and Drawings of bridges                  |
| 3003 | Consultancy | HSI IDC Ltd. Industrial Estate, Manakpur, Yamuna Nagar    | Civil  | Prof. Tripta Goyal  | Preparation of Design Mix Macadam material                        |
| 3004 | Consultancy | M/s ITD Cementation India Ltd., Salt Lake City, Kolkata   | Civil  | Prof. P. K. Gupta   | Mix Design M-10,15,25,30  |
| 3005 | Consultancy | Executive Engineer - III, Chandigarh Housing Board, Chd.  | Civil  | Prof. S.K Verma     | Concrete- Grade M -20   |
| 3006 | Consultancy | M/s Lectrix Motors Limited                                | Metta. | Prof, J.D Sharma    | Corrosion Behavior Analysis of samples                            |
| 3007 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)                | Elect. | Prof. S.K Suman     | Third party inspection of 365 k WP SPV power plants               |

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|------|-------------|--|--------|---------------------|---|
| 3008 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)               | Elect. | Prof. S.K Suman     | Third party inspection of 620 k WP SPV power plants |
| 3009 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)               | Elect. | Prof. S.K Suman     | Third party inspection of 7x2 k WP SPV power plants |
| 3010 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)               | Elect. | Prof. S.K Suman     | Third party inspection of 70 k WP SPV power plants  |
| 3011 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)               | Elect. | Prof. S.K Suman     | Third party inspection of 120 k WP SPV power plants |
| 3012 | Consultancy | CREST, Chandigarh Administration (PEC-CCE)               | Elect. | Prof. S.K Suman     | Third party inspection of 265 k WP SPV power plants |
| 3013 | Consultancy | OSD, Vigilance Cell, Sector - 9, Chandigarh              | Civil  | Prof. R.R Singh     | Consultancy/Testing of Samples                      |
| 3014 | Consultancy | OSD, Vigilance Cell, Sector - 9, Chandigarh              | Civil  | Prof. R.R Singh     | Consultancy/Testing of Samples                      |
| 3015 | Consultancy | M/s Continental Foundation, 1059, Sec - 43/B, Chandigarh | Civil  | Prof. P. K. Gupta   | Proof Checking of Structural Design                 |
| 3016 | Consultancy | M/s Abiheet Singh Brar C/o Himachal Dental College,      | Metta. | Prof. Uma Batra     | Corrosion Behavior Tooth Material                   |
| 3017 | Consultancy | M/s Pooja Rani C/o Distt. Consumer Forum, Panchkula      | Mech.  | Prof. Sushant Samir | Inspection of Vehicle                               |
| 3018 | Consultancy | M/s Abiheet Singh Brar C/o Himachal Dental College,      | Metta. | Prof. Uma Batra     | Corrosion Behavior Tooth Material                   |

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| 3019 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil  | Prof. Roshan Lal      | Vetting of Design   |
| 3020 | Testing     | SDE M.C.P.H Sub Division No. 12, Chandigarh                   | Civil  | Prof. P. K. Gupta     | Testing of Cubes  |
| 3021 | Consultancy | Executive Engineer, C.P Division No. 1, Chandigarh            | Civil  | Prof. Umesh Sharma    | Construction of second Grain Food and Vegetable Market, Sec- 39 |
| 3022 | Consultancy | SDE M.C.P.H Sub Division No. 12, Chandigarh                   | Civil  | Prof. P. K. Gupta     | Mix Design M-30   |
| 3023 | Consultancy | Welspun Projects Ltd., Vill- Versamedi, Taluka Anjar, Gujarat | Elect. | Prof. Balwinder Singh | Vetting of SCADA Scheme   |
| 3024 | Testing     | Assistant Trust Engineer, City Improvement Trust, Sangrur     | Civil  | Prof. Roshan Lal      | Testing of Tiles, Channels and Curbs                            |
| 3025 | Consultancy | SDE M.C.P.H Sub Division No. 9, Chandigarh                    | Civil  | Prof. P. K. Gupta     | Mix Design M-30   |
| 3026 | Consultancy | Creative Consultants, 2402, Top Floor, Sec-67, Mohali         | Civil  | Prof. S.K Verma       | Proof Checking of Structural Design and Drawings                |
| 3027 | Consultancy | Creative Consultants, 2402, Top Floor, Sec-67, Mohali         | Civil  | Prof. S.K Verma       | Proof Checking of Structural Design and Drawings                |
| 3028 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala         | Civil  | Prof. P. K. Gupta     | Proof Checking of Structural Design and Drawings                |
| 3029 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali   | Civil  | Prof. Roshan Lal      | Proof Checking of Structural Design and Drawings                |

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| 3030 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Proof Checking of Structural Design and Drawings |
| 3031 | Consultancy | State Bank of India, Local Head Office, Sec-17, Chandigarh  | Civil | Prof. Sarita Singla | RCC Mix Design M-50                              |
| 3032 | Consultancy | Creative Consultants, 2402, Top Floor, Sec-67, Mohali       | Civil | Prof. S.K Verma     | Proof Checking of Drawings of water tank         |
| 3033 | Consultancy | Architect Yetinder Mathur, 764, Sec-8-B, Chandigarh         | Civil | Prof. S.K Verma     | Proof Checking of Structural Design and Drawings |
| 3034 | Consultancy | Dist. Consumer Disputes Redressal Forum - 11, U.T Chd.      | Mech. | Prof. Sushant Samir | Inspection of Vehicle                            |
| 3035 | Consultancy | Haryan State Agriculture Marketing Board                    | Civil | Prof. Siby John     | Conducting Test for HSAMB                        |
| 3036 | Consultancy | Gawar Consturction Limited, Sec-48, Gurgaon, Haryana        | Civil | Prof. P. K. Gupta   | Construction of Fly Over in Dera Bassi           |
| 3037 | Consultancy | Gawar Consturction Limited, Sec-48, Gurgaon, Haryana        | Civil | Prof. P. K. Gupta   | Construction of Fly Over in Dera Bassi           |
| 3038 | Consultancy | ABL Structure Consultant Pvt. Ltd. Pitam Pura, Delhi        | Civil | Prof. P. K. Gupta   | Proof Checking of Structural Design and Drawings |
| 3039 | Testing     | SDE P.H Sub Division No. IV, C.H.B Chandigarh               | Civil | Prof. P. K. Gupta   | Testing of Material                              |
| 3040 | Consultancy | Executive Engineer, Central Sub. Div, Ferozpur, Punjab      | Civil | Prof. P. K. Gupta   | Mix Design M.20, M.10                            |

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| 3041 |             | Cancelled  |       |                   |  |
| 3042 | Consultancy | M/s Continental Foundation, 1059, Sec - 43/B, Chandigarh         | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design                        |
| 3043 | Consultancy | Assistant Exet. Eng., Transmission Lines, Sub Div. PSPCL, Mohali | Civil | Prof. Roshan Lal  | Preparation of Cement Mix Design M-20                      |
| 3044 | Consultancy | Dharmendera Singh Thakur, Govt. Contractor, Nalagarh, HP         | Civil | Prof. Roshan Lal  | Checking of Structural Design of Food and Drug Testing Lab |
| 3045 | Consultancy | Ext. Engg. Housing Board Haryana, Panchkula, Haryana             | Civil | Prof. P. K. Gupta | Design of Mix Cement M-25                                  |
| 3046 | Testing     | SDE M.C.P.H Sub Div. No. 12, Chandigarh                          | Civil | Prof. P. K. Gupta | Testing of Cubes   |
| 3047 | Consultancy | Ext. Engg. Housing Board Haryana, Panchkula, Haryana             | Civil | Prof. P. K. Gupta | Design of Mix Cement M-25                                  |
| 3048 | Consultancy | Ext. Engg. Construction Div. No.2, PWD B&R, Amritsar             | Civil | Prof. Roshan Lal  | Proof Checking of Structural Design and Drawings           |
| 3049 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali      | Civil | Prof. Roshan Lal  | Proof Checking of Structural Design and Drawings           |
| 3050 | Testing     | SDE PH Sub Div. No. IV, CHB, Chandigarh                          | Civil | Prof. P. K. Gupta | Testing of Material for Sewer Lines                        |
| 3051 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala            | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design and Drawings           |

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| 3052 | Consultancy | M/s Jindals Consortium, SCF – 9, Vikas, Vihar, Ambala  | Civil | Prof. P. K. Gupta  | Proof Checking of Structural Design and Drawings                    |
| 3053 | Consultancy | National Engg. Projects Consultants, Chandigarh        | Civil | Prof. Roshan Lal   | Proof Checking of Structural Design                                 |
| 3054 | Consultancy | National Engg. Projects Consultants, Chandigarh        | Civil | Prof. Roshan Lal   | Proof Checking of Structural Design                                 |
| 3055 | Consultancy | Assistant Engg. H.P.S.I.D.C Limited, Baddi, Solan HP   | Civil | Prof. P. K. Gupta  | Proof Checking of Structural Design                                 |
| 3056 | Consultancy | Executive Engg., HUDA, Division No. 3, Faridabad       | Civil | Prof. P. K. Gupta  | Third Party Inspection  |
| 3057 | Consultancy | SDE Sub Div. No-11, CHB, Chandigarh                    | Civil | Prof. P. K. Gupta  | Testing of Materials for construction of 1216 flats at Maloya, Chd. |
| 3058 | Testing     | HSI IDC Ltd. Industrial Estate, Manakpur, Yamuna Nagar | Civil | Prof. Tripta Goyal | Testing of samples of Wet Mix Macadam (WMM) Material                |
| 3059 | Consultancy | AARAV & Associates H.No - 101 Ward No-7, Banur, Mohali | Civil | Prof. P. K. Gupta  | Proof Checking of Structural Design and Drawings                    |
| 3060 | Consultancy | Sundlas Builders Pvt. Ltd., Baddi, Himachal Pardesh    | Civil | Prof. S.K Singh    | Consultancy Work for Construction of Container Yard at Baddi        |
| 3061 | Consultancy | Creative Consultants, 2402, Top Floor, Sec-67, Mohali  | Civil | Prof. S.K Verma    | Proof Checking of Drawings of water tank                            |
| 3062 | Consultancy | RITES Limited, CIAB Site Office, NABI Campus, Mohali   | Civil | Prof. P. K. Gupta  | Mix Design M.25, M.30   |



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| 3063 | Consultancy | National Engg. Projects Consultants, Chandigarh             | Civil | Prof. Roshan Lal    | Proof Checking of Structural Design                     |
| 3064 | Consultancy | MES, Garrison Engineer, Jutogh, Shimla                      | Civil | Prof. P. K. Gupta   | Structural Evaluation & Recommendation                  |
| 3065 | Consultancy | Creative Consultants, 2402, Top Floor, Sec-67, Mohali       | Civil | Prof. S.K Verma     | Proof Checking of Drawings of water tank                |
| 3066 | Consultancy | M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali | Civil | Prof. Roshan Lal    | Proof Checking of Structural Design and Drawings        |
| 3067 | Consultancy | Riverdale, SCO-2, Chandigarh-Patiala Raod, Zirakpur, Pb.    | Civil | Prof. S.K Verma     | Vetting of Structural Design/Drawings                   |
| 3068 | Consultancy | V.A.S Design & Infrastructure Consutants, Delhi             | Civil | Prof. P. K. Gupta   | Proof Checking of Structural Design                     |
| 3069 | Consultancy | Dist. Consumer Disputes Redressal Forum - Ropar             | Mech. | Prof. Sushant Samir | Inspection of Vehicle                                   |
| 3070 | Consultancy | Principal, Ami Chand Monga Memorial College of Law, Ambala  | Civil | Prof. Roshan Lal    | Issue of Stability Certificate for College Building     |
| 3071 | Testing     | SDE PH Sub Div. No. I, CHB, Chandigarh                      | Civil | Prof. P. K. Gupta   | Testing of samples for construction of 1536 small flats |
| 3072 | Consultancy | Continental Foundations, 1059, Sec-43/B, Chandigarh         | Civil | Prof. P. K. Gupta   | Proof Checking of Structural Design                     |

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| 3073 | Consultancy | EARL TECHNO, Consultants Pvt. Ltd., Dera Bassi, Punjab | Civil | Prof. P. K. Gupta | Proof Checking of Structural Design                     |
| 3074 | Testing     | SDE P.H Sub Division No. II, C.H.B Chandigarh          | Civil | Prof. P. K. Gupta | Testing of samples for construction of 1216 small flats |
| 3075 | Consultancy | Design Solutions Inc.                                  | Civil | Prof. S.K Verma   | Vetting of Structure Design of Chamber Size             |
| 3076 | Consultancy | Him Cableways, 57, Ind. Area, Ph-2, Chandigarh         | Civil | Prof. S.K Mangal  | Vetting of Design of Aerial Cableways                   |
| 3077 | Testing     | Lovely Professional University, Jalandhar, Punjab      | Prod. | Prof. N.M Suri    | Sample Flow Casting & Welding                           |

**EXTENSION LECTURES DELIVERED (2010)**

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| Sanjeev Sofat   | Delivered an invited talk on “Information & Cyber Security” in National Seminar on Contemporary Computing held on Feb. 25th 2010, at DAV College, Yamunanagar.   |
| Divya Bansal    | Delivered an invited session on the “Case Study of Deployment of the testbed using Wireless Mesh Network” during the workshop on “Rapidly deployable Wireless Mesh Networks” on April 06, 2010 at Airtel IIT Delhi Centre of Excellence. |
| Divya Bansal    | Delivered expert lecture on “wifi Security” at NITTTR, sector 26 in April 2010.  |
| Dr Tripta Goyal | Expert lecture on the topic “Status and Challenges of Traffic Management in Chandigarh” in the seminar on “Road Safety” organized by Indian Media Centre, Chandigarh Chapter at Chandigarh Press Club, held on April 10, 2010.           |
| Narendra Mohan  | Developments in Welding, Chandigarh Group of Colleges, 18th April 2010, Ghurma Mohali.   |
| Divya Bansal    | Delivered expert lecture on “Network Perimeter Security” at NITTTR, sector 26 in May 2010.   |

## EXTENSION LECTURES DELIVERED (2011)

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| Praveen Kalra     | Modelling of Robotic Manipulators, NITTR Chandigarh, Jan. 20, 2011.  |
| Vasundhara Singh  | Delivered an invited lecture at the 5th Chandigarh Science Congress (CHASCON, 2011) organised by panjab University, Chandigarh titled “ Sustainable Chemistry” on 27th Feb, 2011.                                    |
| Sanjeev Sofat     | Session on “Secure Framework for Wireless Mesh Networks”, NUS, Singapore, March 24, 2011.  |
| Jagtar Singh Gill | ‘Quality Physical Educator for quality physical education’, UGC refresher course in physical education, conducted by ASC and Dept of Physical Education, Panjab University, Chandigarh, 5th March, 2011.             |
| Divya Bansal      | Plenary Session 2, "Role of the R & D Centers in India towards Cyber Security", Bangalore Cyber Security Summit, March 17-18, 2011.  |
| Sanjeev Sofat     | Session on Need for Introducing Cyber Security and cyber law courses in Academia, Bangalore Cyber Security Summit, March 17-18, 2011.  |
| Vasundhara Singh  | Delivered an invited lecture on “Green Technologies for environmental Sustainability” at Chitkara University, Rajpura at the one day conference on Green Chemistry: Principles to Practice held on 18th March, 2011. |
| Jagtar Singh Gill | ‘Statistical methods in Physical Education’ SKR College of Physical Education, Bhagoomajra, Kharar 19th March, 2011.   |
| Divya Bansal      | Tutorial on “Security Issues in Wireless Mesh Networks” IEEE Symposium on Computer and Informatics (ISCI 2011), Malaysia. March 20, 2011.  |
| Divya Bansal      | Session on “Secure Framework for Wireless Mesh Networks”, NUS, Singapore, March 24, 2011.  |
| Jagtar Singh Gill | ‘Statistical Scales and its Application in Physical Education and Sports,’ SKR College of Physical Education, Bhagoomajra, Kharar 26th March, 2011.  |
| Sanjeev Sofat     | Session on Landscaping Wireless security Today & Tomorrow, International Conference on Advances in Computing and Communication – 2011 (ICACC-11), April 08 – 10, 2011.   |
| Divya Bansal      | Session on “Wireless Technologies Development Trends”, during the Indo-Australian workshop by IIT Chennai & Queensland University of Technology, in Chennai on April 13, 2011.                                       |

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| Rajesh Kumar     | 'Guest of Honour' and 'Invited Lecture' in 'Aerobaics-11' at UPES, Dehradun during April 26-May 02, 2011.   |
| Vasundhara Singh | Delivered a short lecture on "Green Chemical Technology: Novel Catalytic System" on 11th May 2011, Technology Day which was celebrated in PEC University of Technology with the launch of In house Lecture Series.  |
| Praveen Kalra    | Modelling of Robotic Manipulators, NITTR Chandigarh, May 25, 2011.  |
| L N Sharma       | Two Weeks AICTE Sponsored Faculty Development Programme On Geoinformatics: Technology And Application, June 2011, Civil Engineering Department D.B.C.R- University of Science Technology, Murthal, Haryana.   |
| Sucheta          | Delivered an invited talk on "Applications of Algebra" for the EDUSAT Program of Higher Education Department of Haryana State, which was telecast live on HARYANA EDUSAT Channel on Sept. 10, 2010.   |
| Sucheta          | Delivered an invited talk as resource person on "Role of Mathematics in Computer Graphics" in the National Seminar on "Role of Mathematics in Scientific Computing" sponsored by the Department of Higher Education, Haryana at Government College Panchkula on Sept. 20, 2010. |
| P. Thareja       | Quality Control in Welding: MHRD/ AICTE FDP Welding Technology for Excellence, NIT Jalandhar (31 Dec).  |
| R S Walia        | Design of Experiment, PTU sponsored course on Machine Design at BBSEC Fategarh Sahib, 12th to 16th July 2010.   |
| R S Walia        | Design of Riveted Joint, PTU sponsored course on Machine Design at BBSEC Fategarh Sahib, 12th to 16th July 2010.  |
| R S Walia        | Optimization Techniques, PTU sponsored course Research Methodologies at SUS College of Engineering & Technology, Tangori, 2nd to 4th August 2010.   |
| R S Walia        | Parametric Design using Taguchi Method, Keynote Speaker and Session Chair at National Conference on Recent Trends in Mechanical and Automobile Engineering, 20th and 21st August, 2010 at LCET Katani Kalan, Ludhiana.  |
| Narendra Mohan   | Advancements in Welding at National Conference on Recent Trends in Mechanical and Automobile Engineering, 20th and 21st August, 2010 at Kalan, Ludhiana.  |

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| P. Thareja        | BBMB (Integrated Management System) 1.Requisites for integrated management System, Bhakra Beas Management (Power) Board. Chandigarh, Sept 2010. |
| Divya Bansal      | Session on “Security Issues in Wireless Networks”, Infosys, Chandigarh IT Park, September 24, 2010.   |
| P. Thareja        | faculty Development programs; Design of Experiments, CSIR HRD Trg Course, Ghaziabad. Oct 2010.  |
| P. Thareja        | Chaired Session + Chief Guest: National seminar on Energy conservation on Reheating Furnaces: NISST, Mandigobindgarh, 10th Nov 2010.            |
| Praveen Kalra     | National: Robotics, NITTR Chandigarh, Nov. 23, 2010.  |
| P. Thareja        | Invited talk: Agra q2Q - How not to spoil the Product Realisation, The Institute of Indian Foundryman, Agra, 7 Dec 2010.                        |
| Thareja Priyavrat | Key Note Lecture Energy issues: Conserve or get Condemned, South Asian Forum of Energy Efficiency, 20th Dec, 2010, Faridabad.                   |

## EXTENSION LECTURES DELIVERED (2012)

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| Jagtar Singh Gill | Pursuing research in physical education, Govind National College, Narangwal, Ludhiana, 21.01.2012.  |
| Jagtar Singh Gill | Research procedures in Physical Education, Degree College of Physical Education, Amravati (MS), 20.02.2012.   |
| Uma Batra         | Biomaterial: Their interaction with hard tissue, an invited talk during Internation Conference on Nano Sci Tech' 2012 at Panjab University, Chandigarh held on 16th Feb. 2012.  |
| Ajay Mittal       | Recent innovations in the area of Digital Image Processing, 3rd National Conference on Recent innovations in Engineering and Technology, Global Galaxy group of Institutes, Shahbad on 24th Feb – 5th March'2012.   |
| Jagtar Singh Gill | Applications of statistics in Physical Education and Sports,' SKR College of Physical Education, Bhagoomajra, Kharar, 14.04.2012.   |
| L N Sharma        | Trainee officers newly inducted, Geological Survey of India, Sector-33B, Chandigarh expert Lecture titled Geotechnical Properties of Rocks was delivered on 27.04.2012.   |
| Ajay Mittal       | Detection of edges in low contrast and color images , FDP on digital signal processing held at Chandigarh Group of Colleges, Gharuan, Mohali on 22nd May'2012 , Chandigarh Group of Colleges, Gharuan, Mohali.  |
| Jagtar Singh Gill | Doctoral research- methods and hurdles, Dept. of Physical Education, Panjab University, Chandigarh 26.05.2012.  |
| Sucheta           | Delivered an invited talk on 'Fractal Geometry' as a part of one day program 'Continuum 2012' organized to celebrate the National Mathematical Year on May 29th, 2012 at Rayat and Bahra College of Engineering and Technology for Women, Sahauran ( Kharar). |
| Sucheta           | Delivered the keynote address titled 'Mathematics, Computer Graphics and an interesting Application' at the International Conference on Electrical Engineering and Computer Science (ICEECS) held in Chandigarh on June 9th, 2012.                            |
| Ajay Mittal       | Detection of edges in low contrast and color images , FDP on digital Image Processing at CEC, Landran on 14th June 2012, Chandigarh Engineering College, Landran, sponsored by PTU.   |

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| Sucheta            | Delivered an invited talk on 'Applications of Mathematics in Engineering' at PTU sponsored Faculty Development program on "Roadmap to Sustaining Academic Excellence in Engineering and Management Education' on June 26th, 2012 at Rayat Institute of of Engineering and Information Technology, Railmajra (Ropar). |
| Uma Batra          | "Great Science vs. Viable Technology", Invited Talk during the Inspire Scheme of DST at Shoolini University Solan on 29th August 2011.   |
| Sucheta            | Delivered an invited talk on 'Fractals and Graphic Designs' at the Department of Mathematics, Post Graduate Govt. College for Girls, Sector 42, Chandigarh, on Sept. 10, 2011.   |
| Uma Batra          | "Smart Material", Invited Talk during the Inspire Scheme of DST at Shoolini University Solan on 28th September 2011.   |
| Uma Batra          | Nanoscale Bioceramic for Bone-Tissue Engineering, In house lecture series-2 delivered on Engineer day'2011 at Pec University of Technology.  |
| Dr. Tarlochan Kaur | Lecture delivered by Prof. P.B Mahapatra, Prof. D. K. Aggarwal, Dr. Rajneesh Tyagi, Prof. B.S Pabla, Sh. Gurvin singh, Prof. Sandeep Grover, Prof. A. N. Sinha, Prof. Ramesh K. Garg, Prof. L. D Garg on "Recent Developments in Mechanical Engineering" on 11th-22nd Jun, 2012.                                     |



## EXTENSION LECTURES DELIVERED (2013)

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| Dr. Parveen Kalra    | “Modeling of Robot Kinematics”, Modeling and Simulation using MATLAB', NITTR, Chandigarh, January 16, 2013.   |
| Dr Jagtar Singh Gill | Research Methodology in PE', Ph.D. course work in physical education, conducted by Dept of Physical Education, Panjab University, Chandigarh, 9th February, 2013.   |
| Dr Jagtar Singh Gill | ‘UNESCO Charter of PE’, Ph.D. course work in physical education, conducted by Dept of Physical Education, Panjab University, Chandigarh, 23rd February, 2013.   |
| Dr Jagtar Singh Gill | ‘Evaluation and Measurement Technology in Physical Education, Ph.D. course work in physical education, conducted by Dept of Physical Education, Panjab University, Chandigarh, 2nd March, 2013.   |
| Dr. Jagdish Kumar    | Expert Lectures in “STC on Power Electronics, Drives and MATLAB Applications (PEDMA-2013), RTU Kota (Raj.), March 18-22, 2013.  |
| Sucheta              | Delivered an invited talk on Remembering Ramanujan – The Genius at Govt. College Panchkula on March 29, 2013.   |
| Dr Neena Gupta       | Lecturers Delivered in Continuing Education Programme Delivered a ICT based lecture (live telecast) on Wifi And WiMax Technologies at NITTR Chandigarh for various technical institutions of different states.                                |
| Dr Jagtar Singh Gill | ‘Physical Education Advocacy of Mao Tse Tung, Ph.D. course work in physical education, conducted by Dept of Physical Education, Panjab University, Chandigarh, 13rd April, 2013.  |
| Rahul O Vaishya      | "Non Conventional Machining" PEC u of T CHD. sttp on "estimation of aerodynamic derivative from flight data & dynamic wind tunnel testing", april 16,2013.  |
| Dr Rakesh Kumar      | Extension/expert lectures delivered in 3rd and 4th TAAI Lecture Series on ‘Estimation of Aerodynamic derivatives from flight data & dynamic wind tunnel testing’ held during April (15-19), 2013 at PEC University of Technology, Chandigarh. |
| Dr Tripa Goyal       | Half day internal workshop for M.E. (Transportation Engg.) for curriculum revision on 9th of April 2013.  |
| Dr Tripta Goyal      | One day workshop for curriculum revision of M.E. (Transportation Engg.) held on 17/04/2013 in Civil Engineering department.   |

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| Dr Tripta Goyal     | One day internal workshop for curriculum revision of M.E. (Transportation Engg) held on 29/04/2013 in Committee room of CED.  |
| Dr Umesh Sharma     | Keynote speaker in Career Counselling Session of Transport Infrastructure Congress and Expo 2013(TICE-2013) - Joint Endeavor of Ministry of Road Transport and Highways and MNIT, Jaipur.   |
| Dr S K Singh        | “Preparation of Sponsored project proposals for DST, New Delhi: Tutorial exercise” in Workshop on Methodology for submitting proposals for sponsored research projects, 1st and 2nd May 2013, PEC Chandigarh.   |
| Rahul O Vaishya     | “FEA”, one day seminar at Neelkhanth Institute of Technology, Modipuram on 6th May 2013.  |
| Dr Umesh Sharma     | Keynote Speaker in National Seminar on Operation, Maintenance, Tolling & Traffic System at N.C. College, Israna, Panipat 7th May 2013.  |
| Dr. Jagdish Kumar   | Expert Lectures in “STC on “Real Time Implementation of Power Electronics Technologies”, MNIT Jaipur, June 28, 2013.  |
| Dr Vasundhara Singh | Delivered an invited lecture on “Green Chemistry-Waste to Wealth” during short term course on “Advances in Science & Technology Useful for All Engineering Educators at PEC, Chandigarh under TEQIP-II.   |
| L N Sharma          | Delivered a talk on “Natural Disaster Management – Indian Scene” to the students and faculty of Fayetteville State University (F.S.U) institute, USA visiting PEC University of Technology on an Exchange Programme, at the Department of Applied Sciences, PEC on July 23, 2012.                   |
| Anju Singla         | Delivered a talk on “Inclusive Growth Through Financial Inclusion” to the students and faculty of Fayetteville State University (F.S.U) institute, USA visiting PEC University of Technology on an Exchange Programme, at the Department of Applied Sciences, PEC on July 23, 2012.                 |
| Vasundhara Singh    | Delivered a talk on “Green Chemistry for Environmental Sustainability an overview” to the students and faculty of Fayetteville State University (F.S.U) institute, USA visiting PEC University of Technology on an Exchange Programme, at the Department of Applied Sciences, PEC on July 25, 2012. |

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| Sucheta            | Delivered a talk on "Computer Graphics using Mathematical" to the students and faculty of Fayetteville State University (F.S.U) institute, USA visiting PEC University of Technology on an Exchange Programme, at the Department of Applied Sciences, PEC on July 25, 2012. |
| Ashwani Kumar      | Delivered a talk on "Scientific Methods" to the students and faculty of Fayetteville State University (F.S.U) institute, USA visiting PEC University of Technology on an Exchange Programme, at the Department of Applied Sciences, PEC on 23.07.2012.                      |
| Divya Bansal       | Trends in Wireless Technologies, Short Term Course on "Internet Technology" to be held from 30th July to 3rd August, 2012, NITTR, Chandigarh.   |
| Dr S K Singh       | "Solid waste disposal practices in India" in National conference on 'Latest development in pollution control and prevention techniques', 21-22 Nov 2012, NITTTR Chandigarh.   |
| Dr Rakesh Kumar    | Extension/expert lecture on 'Role of Aerodynamics during Design of Aircraft' CEP course on 'Design, Development, Upgradation of Airborne Systems", RCMA, Chandigarh on 27.Nov.2012.   |
| Dr. Tripta Goyal   | Lecture delivered by Er. H.C sethi on "Traffic system in Chandigarh" on 6th Nov, 2012   |
| Dr. Tripta Goyal   | Lecture delivered by Er. A. P Bahadur on "Safer roads for India" on 6th Nov, 2012   |
| Dr. Uma Batra      | Lecture delivered by Prof. Keya Dharamvir on "Scanning tunneling electron microscope and atomic force microscope" on 6th Nov, 2012  |
| Dr. Uma Batra      | Lecture delivered by Dr. Swaranjit Singh on "Analysis of metals and metalloids" on 6th Nov, 2012  |
| Dr. Uma Batra      | Lecture delivered by Dr. M L Singla on "Analytical instruments for nano-materials characterization" on 6th Nov, 2012  |
| Prof. Rupali Verma | Lecture delivered by Mr. Manish Jain and Mr. Kulvaibhav Kaushik on "Data Mining" on 29th Nov, 2012  |
| Dr. Uma Batra      | Lecture delivered by Mr. P.N Shali on "Reforms in PG Education" on 30th Nov 2012  |
| Dr. Uma Batra      | Lecture delivered by Dr. S.R. Parbhakar on "Reforms in Curriculum of PG Materials & Metallurgical Engineering Programme" on 30th Nov 2012   |

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| Prof. Kishori Lal      | Lecture delivered by Dr. kota harinaryan, Dr. Satish Kumar, Mr. K P singh, Prof. R K Pant, Prof. A K ghosh, Mr. Jitender singh, Mr. Jimmy Kansal, Mr. Sudhir gupta, Mr. R.C Sharma, Mr. R.K Palta, Mr. Yogesh kumar on "Enhancement of R&D Activities " on 30th Nov 2012          |
| Dr Rakesh Kumar        | Extension/expert lectures were delivered in STC on 'Flight Mechanics and Recent Developments' held during December (3-7), 2012 at PEC University of Technology, Chandigarh.   |
| Dr. Parveen Kalra      | "Industrial Design", Short term course on Advances in Science and Technology for All Engineering Educators, PEC University of Technology, December 8, 2012.   |
| Dr. Neelam Rup Prakash | Lecture delivered by Mr. H.S Jatana SCL Mohali on "Issues and Challenges in submicron VLSI Design" on 22nd Jan, 2013  |
| Dr. Neena Gupta        | Lecture delivered by Mr. Somil Saxena on "Design and simulation of photonic communication Systems" on 25th Jan, 2013  |
| Prof. Rajesh Kanda     | Lecture delivered by Dr. Maarten on "Advances in EEG/ERP Analysis for Cognitive studies during the ACNS-2013" on 3rd Feb, 2013  |
| Dr. Neena Gupta        | Lecture delivered by Mr. Jaspreet singh on "Emerging trends in Photonics" on 6th Feb, 2013  |
| Dr. Tarlochan Kaur     | Lecture delivered by Dr. Y.R Sood on "Green Power-Renewable Energy integration in smart electricity Grids" on 6th Feb, 2013   |
| Prof. Sucheta          | Lecture delivered by Dr. Anjali Roy , Prof. Ravi Shankar , Narinder Singh, Dr. R. S. Banshtu, Arvind Kumar Gupta, Dr. Sanjiv Puri , Rakesh kumar , Somaresh bardhan on "The Role and Importance of Basic Sciences and Humanities in Undergraduate Engineering " on 23rd Mar, 2013 |
| Prof. Jaswinder Singh  | Lecture delivered by Mr. Ankur Vyas (PEC Alumni 2001 batch) on "Cost Management" on 25th Mar, 2013  |
| Prof. Jaswinder Singh  | Lecture delivered by Prof. Surjit Wadhwa (Retd.) on "Patents" on 25th Mar, 2013   |
| Prof. R.K. Mahajan     | Lecture delivered by Manu Goyal, Dr. Surendra Singh, P.N Shali, O.P Pandey , Ravi Kumar , Rupinder Kumar Malhotra , Vivekanand Kain, Varinder Dhawan on "Curriculum Development Workshop of M.E (IMM) " on 11th,16th-25th Apr, 2013   |
| Prof. Shakti Kumar     | Lecture delivered by Two Experts from NIT Kurukshetra ,One IIT Roorkee, One from NITTTTR Chandigarh, 3 from civil engg. deptt and 3 alumini on "P.G Curriculum Revision of M.E. Environmental Engineering" on 17th Apr, 2013  |

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| Prof. M.A Alam   | Lecture delivered by Dr. Subodh Ranjan , Sh. Nand Kumar Tiwari, Sh. Rakesh Gupta , Sh. K. K Gupta Pb. Irrigation Department, Sh. Armaan Singh U.T Engineering Department on"P.G Curriculum Revision of M.E. Irrigation and Hydraulic Engineering " on 17th Apr, 2013                        |
| Prof. Sulata Bhandari  | Lecture delivered by Prof. Biswarup Das, Prof. R.S Bhatia , Dr. M.K Pathak, Sh. Atul Pasrija, Sh. Maninder Kumar , Ms. Sunita Goyal , Mr. A. P singh, Mr. Y.P Verma , Mr. Safal Batra on "Revision of M.E. (Electrical) Curriculum Development " on 18th Apr, 2013                          |
| Dr. Sanjeev Sofat  | Lecture delivered by Dr. Sudarshan, Dr. Jatinder Chhabra, Ms. Baani , Ms Savina, Mr. Avinash IT CT MG Towers Sec-67 Mohali, Mr. Vikas Tripathi on"One day Workshop on Curriculum Development " on 23rd Apr, 2013  |
| Prof. Neelam Rup Parkash   | Lecture delivered by Arun Kumar Chatterjee, Dr. R. K Sharma, Dr. O.P Sahu, Dr. Balwinder Singh Raj , S.K Chopra , Dr. B.S Saini , Ravinder Sahi, Renu Vig , Sanjay Sharma on"Revision of M.E. (Electronics & VLSI/ Electrical Design) Curriculum Development " on 23rd Apr, 2013            |
| Dr. Arun K Lall  | Lecture delivered by Prof. Sudarsan Ghosh, Prof. Inderdeep singh, Dr. Harpreet Singh, Prof. S. K Mahajan, Prof. Rajesh Kumar, Varinder Singh Kalsi, Sushil Kumar, Pritpal Singh Viridi,Dr. B. S Pabla, Dr. S. S Dhami on "ME Mechanical Curriculum Development Workshop " on 23rd Apr, 2013 |
| Dr. Vasundhara singh and Dr. Satyendra singh (functional materials)<br>Dr. Uma Batra & Dr. Mamta sharma (Nano Materials) | Lecture delivered by Prof. A.K chakraborti , Dr. Rahul Vaish, Dr. Bonamali Pal, Dr. Nanda Kumar , Prof. P. Selvam , Prof. A.K chakraborti,Dr. Rahul Vaish, Dr. Bonamali Pal, Dr. Nanda Kumar, Prof. P. Selvam on"Recent Development in Functional Materials " on 26th Apr, 2013.            |
| Dr. Sanjeev Sofat  | Lecture delivered by Ms. Kamaljeet kaur, Dr. Sukhwinder Singh , Sh. Vinod Sharma, Gurdit Singh , Dr. Kuldeep Singh on "One day Workshop on Curriculum Development for ME-CSE (IS) " on 30th Apr 2013  |
| Dr. R.M Belokar  | Lecture delivered by Mr. Dev Kiran on "Advances in the manufacturing of Piston rings" on 14th May, 2013   |
| Mr. Jugpreet Singh   | Lecture delivered by Dr. Pradeep Kumar on "Joining of Bulk material through microwave energy" on 3rd- 7th Jun, 2013   |
| Mr. Jugpreet Singh   | Lecture delivered by Dr. Rama Gopal V Sarepaka on "Diamond Turning: Precision machining " on 3rd- 7th Jun, 2013   |

Prof. R. M Belokar                      Lecture delivered by Sh. N. C Jain, Sh. Rajiv Gupta, Dr. R. K Garg, Dr. Harmesh Kansal, Dr. S. S Banwait, Sh. Dev Kiran , Sh. Deepak Sharma and Naresh Kumar Chawla on "Relevance and scope of workshop & base ocument containing curriculum structure were discussed in detail" on 3rd- 7th Jun, 2013

Dr. Alakesh Manna                      Lecture delivered by Inderpreet singh , Dr. Apurabba kumar sharma , Dr. Hari singh, Dr. Harlal singh Mali, Pradeep kumar , Dr. Buta S. Sidhu, Dr. S. V Rama Gopal, Anshu Dhar Jayal , Prof. B.B Ahujaon"Advanced and Micro manufacturing " on 3rd- 7th Jun, 2013

## EXTENSION LECTURES DELIVERED (2014)

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| Sanjeev Kumar       | Characterization nano/micro structures using different techniques, Recent advances in Materials Science and Nanotechnology, GGSDS, College, Chandigarh on February 1, 2014.  |
| Dr T K Jindal       | Three expert lectures in Gas turbine during FDP at CGC Landran Mohali 10-12 Feb.2014.  |
| Alakesh Manna       | Advancements in Materials, Manufacturing and Quality of Product MMQC-2014 MED, GZSCET Bhatinda Punjab 13TH Feb, 2014.  |
| Rajesh K. Bhatia    | Software Testing: Future Trends CSI Foundation Day and Technical paper presentation Chandigarh 15th March 2014.  |
| Jagtar Singh Gill   | Essentials of Research Processes in Physical Education', Ph.D. course work in physical education, conducted by Dept of Physical Education, Panjab University, Chandigarh, 22th March, 2014.  |
| D. R. Prajapati     | Project Management Techniques STC on "Advanced and Micro-manufacturing" MED, PEC University of Technology 3rd June, 2014.  |
| Sanjeev Kumar       | Basic ideas of nanomaterials, Faculty Development Programme on achieving excellence in Applied Physics. Chandigarh University Gharuan on 11th July, 2014.  |
| Sanjeev Kumar       | Synthesis and characterization of nanomaterials, Faculty Development Programme on achieving excellence in Applied Physics, Chandigarh University Gharuan on 11th July, 2014.   |
| Sucheta             | Delivered an invited lecture on Special Functions, Faculty Training Programme – Rayat& Bahra Insitute of Engineering and Biotechnology on July 14, 2014.   |
| Dr Vasundhara Singh | Delivered an at the University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh as resource person at the UGC-Networking research centre in a one week short term training programme from 5th -10th August,2013 titled: "New synthetic routes towards bioactive sphingolipids and their analogues". |
| Rajesh K. Bhatia    | Research trends in automated software Testing International Conference in Telecommunication and communication by ACEEE Society Chandigarh 1st September 2013.  |

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| Neena Gupta      | (Live telecast) on Wifi And WiMax Technologies Online ICT Based Technical Program on Wireless & Mobile Communication for various Technical institutions of Northern states of India. National Institute of Technical Teachers Training & Research, NITTR, Sec 26 Chandigarh 19.9.13. |
| Alakesh Manna    | Smart Materials in Engineering Recent Trends in Mechanical Engineering MED, PEC University of Technology 26th Sept, 2013.  |
| Dr T K Jindal    | Expert lecture on Pulse detonation, 27-Sept-2013 at National Seminar on RECENT TRENDS IN MECHANICAL ENGINEERING, CEC Landran Mohali.   |
| Alakesh Manna    | Hybrid WECSM setup during cutting of e-glass fibre epoxy composites International Conference on Advancements & Futuristic Trends in Mechanical & Materials Engineering MED, PTU Kapurthala Punjab 6th Oct, 2013.   |
| Alakesh Manna    | Smart Materials and Hybrid Process ICRIME-2013 MED, GNEC Ludhiana 24TH Oct, 2013.  |
| Alakesh Manna    | Smart Materials and Hybrid Machining Techniques ETES-2013 MED, GKU Hardwar, Uttrakhand 9TH NOV, 2013.  |
| Vasundhara Singh | Role of Basic Sciences in Engineering, Faculty Development Programme in Applied Sciences UIET, Panjab University, Chandigarh on November 11, 2013.   |
| J D Sharma       | "Stability of retained austenite in Ni alloyed ADI" in 51st NMD-ATM 2013 organized by Indian Institute of Metals, Kolkata (Nov.12-15, 2013).   |
| Rajesh K. Bhatia | Efficient Project Process and Software Project Management 38th Refresher Course Patiala 14-11-2013 to 04-12-2013.  |
| Sanjeev Kumar    | Nanowires and nanotubes: synthesis via porous membranes as template, International conference on structural and physical properties of solids, Indian School of Mines, Dhanbad on November, 18-20, 2013.   |
| Vasundhara Singh | My Tryst with Photocatalysis: From UV to Visible light using nanocrystalline TiO <sub>2</sub> and sonochemical activation for dye degradation, Advanced Oxidation Processes (AOP 2013)", Thapar University, Patiala on Nov 21-23, 2013.  |
| Neena Gupta      | AICTE sponsored National Seminar on Optical Communications- Trends and Applications Rayat and Bahra College of Engg And Biotechnology for Women , Mohali. 6th -7th Dec 2013.   |



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| Dr. Anju Singla             | Lecture delivered by Smita Jha on "Language, communication and NSS" on 30th-31st Aug, 2013  |
| C.S Jawalkar                | Lecture delivered by Dr. Apurbba Kumar sharma on "Micro machining through advanced manufacturing" on Sept 2nd week, 2013  |
| Dr. Divya Bansal            | Lecture delivered by Mr. Vipul Kumar on "Malware Analysis" on 13th Sep, 2013  |
| Prof. Vasundhara singh      | Lecture delivered by Mr. P.K Ralhan on "History and various aspects of civil engineering" on 16th Sep 2013  |
| Prof. Jagjit singh Randhawa | Lecture delivered by Sh. Manoj kumar on "Imparting Creative product design knowledge" on 26th Sep, 2013   |
| Prof. Harminder Kaur        | Lecture delivered by Mr. M.P singh on "Renewable Energy" on 28th Oct, 2013  |
| Prof. R. M Belokar          | Lecture delivered by Mr. M. K Gandhi on "Interactive Design" on 28th Oct, 2013  |
| Dr. Sanjeev Sofat           | Lecture delivered by Infosys Chandigarh on "Lectures during Industry-Institute interaction week" on 28th Oct, 2013  |
| Dr. Sanjeev Sofat           | Lecture delivered by Mr. Vinod sharma , Sh. Mayank Sharma, Sh. Mohan Lal, Sh. Ravinder Dasila, Himanshu Singhal , Ms. Arpita Aggarwal, Mr. Maras chhabra, Prof. Sudhanshu Mittal Plot- 2& 3 Sector 16-A Noida, Sh. Uday Khambete, Sh. H. S Jatana , Sh. Lakhbir Singh, Sh. Arvind Dixit on "Expert lectutres during Industry Institute Interaction week " on 28th Oct-1st Nov, 2013 |
| Prof. Rintu Khanna          | Lecture delivered by Ms. Harpreet Kaur on "Industrial Automation" on 28th Oct, 2013   |
| Prof. T.K Jindal            | Lecture delivered by Sh. Ramandeep sidhu on "Sturctural analysis of Airplane components by using state of the art software" on 28th Oct, 2013   |
| Prof. P. S Satsangi         | Lecture delivered by Gurvin Singh, A L aggarwal, Sandeep Sharma , Mr. Vivek Nigam on "Academic and general preparation for plunging into world of work after graduation and post graduation course Entrepreneurship opportunities and avenues & New technologies developing in mechanical engineering " on 28th Oct-1st Nov, 2013   |
| Prof. J.D Sharma            | Lecture delivered by Mr. Lakhinder Singh on "Advances in Automotive Engineering & Technology." on 28th Oct, 2013  |

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| Prof. J.D Sharma           | Lecture delivered by Mr. S. S Randhawa on "Information security" on 28th Oct, 2013  |
| Prof. J.D Sharma           | Lecture delivered by Mr. Sandeep Taneja on "Problem solving technique" on 29th Oct, 2013  |
| Prof. T.K Jindal           | Lecture delivered by Sh. Subhash Chander on "Missiles" on 29th Oct, 2013  |
| Prof. Tejinder Singh Saggi | Lecture delivered by Mr. Rajiv Gupta on "Energy conservation" on 29th Oct, 2013   |
| Prof. Harminder Kaur       | Lecture delivered by Dr. Ravi shankar on "Coordination Chemistry of Tin" on 29th Oct, 2013  |
| Dr. R. M Belokar           | Lecture delivered by Mr. Ajay Sharma on "Value Engineering in R&D" on 29th Oct, 2013  |
| Prof. Umesh sharma         | Lecture delivered by Er. H.C Sethi on "Traffic management" on 29th Oct, 2013  |
| Dr. R. M Belokar           | Lecture delivered by Prof. Ashoke Pundhir on "Project and Operations Management" on 30th Oct, 2013  |
| Prof. Umesh Sharma         | Lecture delivered by Sh. Umendra Dutt on "Environmental pollution" on 30th Oct, 2013  |
| Prof. Umesh sharma         | Lecture delivered by Er. Atul chawla on "Design of canals" on 30th Oct, 2013  |
| Prof. Umesh Sharma         | Lecture delivered by Dr. M. S ghumann on "Geotechnical Engineering " on 30th Oct, 2013  |
| Prof. Umesh Sharma         | Lecture delivered by Er. R. S Gillon "Forest conservation" on 30th Oct, 2013  |
| Prof. Umesh sharma         | Lecture delivered by Dr. Sultan Singh on "Land record modernization" on 30th Oct, 2013  |
| Dr. Sanjeev Sofat          | Lecture delivered by Aricent Gurgaon on "Lectures during Industry-Institute interaction week "on 30th Oct, 2013   |
| Prof. Rintu Khanna         | Lecture delivered by Mr. Kapil Jindal on "Trends in PLC" on 30th Oct, 2013  |
| Prof. T.K Jindal           | Lecture delivered by Sh. Jimmy Kansal on "Challenges for the aerospace engineers for flying UAVs in the difficult snow bound terrain" on 30th Oct, 2013 |

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| Prof. J.D Sharma               | Lecture delivered by Mr. Sanjiv Gupta on "Lean Manufacturing" on 30th Oct, 2013  |
| Prof. J.D Sharma               | Lecture delivered by Mrs. Archana Rohella on "Role of Standarization" on 30th Oct, 2013  |
| Prof. Umesh sharma             | Lecture delivered by Er. R. S Saini on "Environmental monitoring" on 31st Oct, 2013  |
| Prof. Umesh sharma             | Lecture delivered by Er. R. B. Singh on "Design of Bridges" on 31st Oct, 2013  |
| Prof. Umesh sharma             | Lecture delivered by Dr. I.C. Syal on "Importance of Structural Design" on 31st Oct, 2013  |
| Prof. Umesh sharma             | Lecture delivered by Er. R. K Jain on "Design of white topping on roads" on 31st Oct, 2013   |
| Prof. R. M Belokar             | Lecture delivered by Mr. S. K Dewan on "Total Quality in Engg & Mgmt." on 31st Oct, 2013   |
| Dr. Sanjeev Sofat              | Lecture delivered by Checkpoint Bangalore on "Lectures during Industry-Institute interaction week" on 31st Oct, 2013                                     |
| Prof. Rintu Khanna             | Lecture delivered by Mr. Amandeep Singh on "Protection schemes" on 31st Oct, 2013  |
| Prof. Rintu Khanna             | Lecture delivered by Mr. Vivek Mahajan on "Reactive Power Control in Power System" on 31st Oct, 2013   |
| Prof. T.K Jindal               | Lecture delivered by Dr. R C Sharma on "Indian Aviation field" on 31st Oct, 2013   |
| Prof. T.K Jindal               | Lecture delivered by Sh. Pravendra Kumar on "The importance of design and the joints in manufacturing processes in Aerospace Industry." on 1st Nov, 2013 |
| Prof. Jagjit singh<br>Randhawa | Lecture delivered by Dr. Pradeep Bala on "Product Design" on 1st Nov, 2013   |
| Prof. J.D Sharma               | Lecture delivered by Mr. Rakesh Bhalla on "Overview of Indian taxation system" on 1st Nov, 2013  |
| Prof. Harminder Kaur           | Lecture delivered by Lal chand saravagi on "Financing for Entrepreneurs" on 1st Nov, 2013  |
| Prof. R. M Belokar             | Lecture delivered by Mr. T V K Gupta on "Industrial Design" on 14th Nov, 2013  |

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| Prof. Harminder Kaur       | Lecture delivered by Dr. Sanjay Kaushik on "Recent Trends in Management" on 31st Nov, 2013  |
| Prof. Tejinder Singh Saggu | Lecture delivered by Dr. R Jha on "Trends in energy conservation in India" on 16th-20th Dec, 2013   |
| Prof. Tejinder Singh Saggu | Lecture delivered by Er. Harish Sharma on "Renewable energy certificate (REC) mechanism in India & Clean Development mechanism and its implication for power industry" on 16th-20th Dec, 2013 |
| Prof. Tejinder Singh Saggu | Lecture delivered by Mr. Sushil Chandra on "Virtual power plants using smart grid technology" on 16th-20th Dec, 2013  |
| Prof. Tejinder Singh Saggu | Lecture delivered by Mr. Balkar Singh on "Energy- some random thoughts" on 16th-20th Dec, 2013  |
| Prof. Tejinder Singh Saggu | Lecture delivered by Arvind Dhigra on "Harnessing Biomass for green energy" on 16th-20th Dec, 2013  |
| Prof. Tejinder Singh Saggu | Lecture delivered by Dr. Mandeep Singh on "Energy savings in pumps fans blowers compressors and motors" on 16th-20th Dec, 2013  |
| Prof. Tejinder Singh Saggu | Lecture delivered by Dr. MD Singh on "Role of instrumentation in energy conservation" on 16th-20th Dec, 2013.   |
| Prof. Sanjeet Kumar        | Lecture delivered by Mr. Mayank Gupta on "Practical Aspects of Non Destructive Techniques" on 10th Feb, 2014.   |
| Prof. Umesh sharma         | Lecture delivered by Dr. Manoj Verma on "Challenges of tunneling through Himalayas" on 7th-11th Apr, 2014.  |
| Prof. Shalom               | Lecture delivered by Mr. L. Pugazhenethy on "Indian Metals industry- Current scenario and future perspectives" on 7th-11th Apr, 2014.   |
| Prof. Shalom               | Lecture delivered by Mr. B. Gopala on "Advances in Iron Making and Steel Making" on 7th-11th Apr, 2014.   |
| Prof. Shalom               | Lecture delivered by Cecil Akhai on "Insulation Materials & Designing in Air Conditioning Industry Chandigarh Admn. PEC CCA" on 7th-11th Apr, 2014  |
| Prof. Shalom               | Lecture delivered by Mr. Daljit Singh on "Design of Production facilities in modern steel plants" on 7th-11th Apr, 2014   |
| Prof. Shalom               | Lecture delivered by Mr. B.S. Sanga on "Role of Metallurgists in Engineering Industry" on 7th-11th Apr, 2014  |

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| Prof. Shalom       | Lecture delivered by Mr. Mukesh Jaiswal on "Challenges & Opportunities in mining and metallurgical industries in India" on 7th-11th Apr, 2014 |
| Prof. Ajay Mittal  | Lecture delivered by Mr. Avtar Mahajan on "Transition from college to corporate and recent IT trends" on 7th-11th Apr, 2014                   |
| Prof. Ajay Mittal  | Lecture delivered by Mohit Virmani on "The power of doing now" on 7th-11th Apr, 2014  |
| Prof. Ajay Mittal  | Lecture delivered by Dr. H. K Sardana on "Computational science- New Vistas " on 7th-11th Apr, 2014   |
| Prof. Ajay Mittal  | Lecture delivered by Manoj Manuja on "BYOD-challenges and opportunities" on 7th-11th Apr, 2014  |
| Prof. Jasbir Kaur  | Lecture delivered by Amit Saini on "Introduction to TCAD (Technology computer Aided design)" on 7th-11th Apr, 2014                            |
| Prof. Jasbir Kaur  | Lecture delivered by Ravinder Sahi on "Overview of measurement and calibration techniques in electronic systems" on 7th-11th Apr, 2014        |
| Prof. Jasbir Kaur  | Lecture delivered by H. S. Jatana on "Analog chip design" on 7th-11th Apr, 2014   |
| Prof. Rintu Khanna | Lecture delivered by Dr. Ravi segal on "Power scenario and grid dynamics" on 7th-11th Apr, 2014   |
| Prof. Rintu Khanna | Lecture delivered by Mr. Vishal Gogna on "Electrical supplies in thermal plant" on 7th-11th Apr, 2014   |
| Dr. Tarlochan kaur | Lecture delivered by Prof. Dinesh on "Embedded system design" on 7th Apr, 2014  |
| Prof. Rakesh       | Lecture delivered by Sh. Jimmy Kansal on "Unmanned Autonomous System" on 7th-11th Apr, 2014   |
| Prof. Rakesh       | Lecture delivered by Sh. Subhash Chander on "Missile control system" on 7th-11th Apr, 2014  |
| Prof. Rakesh       | Lecture delivered by Sh. Gagandeep Singh on "Design and development of advanced light helicopter" on 7th-11th Apr, 2014                       |
| Prof. P.S Satsangi | Lecture delivered by Vinod Jain and Dr. Ramandeep Kaur on "Safety issues or needs in industry" on 7th-11th Apr, 2014                          |
| Prof. P.S Satsangi | Lecture delivered by Dr Samir K Mondal on "Optical fibre and nano photonics" on 7th-11th Apr, 2014  |

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| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Pratik Mehta on "Public Sector Education" on 26th-27th Jun, 2014  |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Chinmaya Saxena on "Microsoft Virtual Academy (MVA)" on 26th-27th Jun, 2014   |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Arunagiri Kalidas on "Devices in Education" on 26th-27th Jun, 2014  |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Jagdish Sasala on "Windows Phone and Windows 8.1" on 26th-27th Jun, 2014  |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Pankaj Dikshit on "Microsoft Learning s and Certifications in India" on 26th-27th Jun, 2014   |
| Prof. Sanjeev K Sofat | Lecture delivered by Ms. Gauri Arora, Mr. Siddharth Prakash on "MSR Initiatives" on 26th-27th Jun, 2014  |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Venkatesh Saravaisddhi on "Microsoft Academic Initiatives" on 26th-27th Jun, 2014   |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Anshu Mor on "Xbox Gaming and Kinect" on 26th-27th Jun, 2014  |
| Prof. Sanjeev K Sofat | Lecture delivered by Mr. Joseph Landes , Mr. Chakrapani Gollapani, Mr. Karan Bajwa on "Microsoft faculty connect summer symposium" on 26th-27th Jun, 2014                                      |
| Dr. Divya Bansal      | Lecture delivered by Prof. D S Broca on "Business process simulation" on 3rd Sep, 2014   |
| Dr. Uma Batra         | Lecture delivered by Dr. Sreedhari Desai on "Ethics & Social Awareness & Strategic Decision making" on 12th Sep, 2014  |
| Dr. Arun Kumar Singh  | Lecture delivered by Prof. Ajay Chakraborty on "Electromagnetic Interference and Compatibility" on 13th Sep, 2014  |
| Dr. Tripta Goyal      | Lecture delivered by Er. Narinder Sharma on "Modern Temples of resurgent/ Water Resources Development in northern India: Bakhra Beas and Ranjit Sagar Dams of Northern India" on 27th Oct 2014 |
| Dr. R. M Belokar      | Lecture delivered by Mr. Sunil Saitwal on "Creative visualization & mind power " on 27th-31st Oct, 2014  |
| Dr. R. M Belokar      | Lecture delivered by Sq. Ldr Walter Mascarenhas on "Effective communication skills & Presentation skills" on 27th-31st Oct, 2014   |
| Dr. R. M Belokar      | Lecture delivered by Dr. V. P. Gupta on "Advanced Foundry Engineering" on 27th-31st Oct, 2014  |

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| Dr. R. M Belokar   | Lecture delivered by Dr. Sunil Pandey on "Foundry and Casting technology" on 27th-31st Oct, 2014   |
| Dr. R. M Belokar   | Lecture delivered by Dr. Sachin Maheswari on "Manufacturing and Auto-mative aspects" on 27th-31st Oct, 2014  |
| Dr. Tripta Goyal   | Lecture delivered by Er. Shishir Bansal on "Growing Infrastructure in Metropolitan city-delhi & sustainability considerations" on 30th Oct, 2014                                 |
| Dr. Uma Batra      | Lecture delivered by Prof. Deshdeep Sahdev on "Resolving atoms in our backyard" on 16th Oct, 2014  |
| Prof. R. K Mahajan | Lecture delivered by Mr. R. P. Seghal on "Expectations of the corporate world from the new entrants" on 27th-31st Oct, 2014  |
| Prof. R. K Mahajan | Lecture delivered by Mr. Varinder Verma on "Recent developments in Heat Treatment" on 27th-31st Oct, 2014  |
| Prof. R. K Mahajan | Lecture delivered by Mr. Vivek Mittal BHEL Haridwar on "Role of metallurgy in thermal power plants" on 27th-31st Oct, 2014   |
| Prof. R. K Mahajan | Lecture delivered by Mr. S. C Mehta on "Design of experiment and process failure & mode effect analysis" on 27th-31st Oct, 2014  |
| Prof. R. K Mahajan | Lecture delivered by Mr. Pankaj Puri on "Rolling of steel & production of rails" on 27th-31st Oct, 2014  |
| Prof. R. K Mahajan | Lecture delivered by Ms. Suditi Jindal on "Resume Writing" on 27th-31st Oct, 2014  |
| Prof. R. K Mahajan | Lecture delivered by Mr. Rajwant Rai on "Introduction to Armament design in TBRL/ DRDO & Role of material properties in design and relevant case studies" on 27th-31st Oct, 2014 |
| Dr. Umesh Sharma   | Lecture delivered by Ms. Anita Stogel on "Business communication /Effective Business Communication for Professionals" on 31st Oct, 2014  |
| Prof. Ajay Mittal  | Lecture delivered by Mr. Vikas Jain on "Secret of Success in IT Industry and Importance of College subjects for IT industry" on 27th-31st Oct, 2014                              |
| Prof. Ajay Mittal  | Lecture delivered by Satish Kumar on "Early Warning systems" on 27th-31st Oct, 2014  |
| Prof. Ajay Mittal  | Lecture delivered by Dr. Anil K Sao on "Compressive sensing based approach for speech and image processing" on 27th-31st Oct, 2014   |

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| Prof. Ajay Mittal      | Lecture delivered by Sh. Neeraj Garg on "Hadoop" on 27th-31st Oct, 2014   |
| Prof. Vasundhara singh | Lecture delivered by Prof. Madhu Raka on "Introduction to coding theory" on 27th-31st Oct, 2014   |
| Prof. Vasundhara singh | Lecture delivered by Dr. S. K Tripathi on "Oxide Semiconductors" on 27th-31st Oct, 2014   |
| Prof. Vasundhara singh | Lecture delivered by Dr. Sanjeev Gautam on "Synchrotron Applications" on 27th-31st Oct, 2014  |
| Prof. Vasundhara singh | Lecture delivered by Mr. Sandeep Gandotra on "Managing an Entrepreneurial venture" on 27th-31st Oct, 2014                                       |
| Prof. Vasundhara singh | Lecture delivered by Dr. S. K Dhameja on "Financial Assistance for Entrepreneurs" on 27th-31st Oct, 2014  |
| Prof. Vasundhara singh | Lecture delivered by Prof. Raj Pal Sharma on "Cationic Cobaltamines as an anion receptors" on 27th-31st Oct, 2014                               |
| Prof. Vasundhara singh | Lecture delivered by Ms. (Adv) Madhu P Singh on "Gender equality and sensitization" on 27th-31st Oct, 2014                                      |
| Prof. Neena Gupta      | Lecture delivered by Mr. Navjit Singh Miglani on "Wireless technology (Recent advancements in communication)" on 27th-31st Oct, 2014            |
| Prof. Neena Gupta      | Lecture delivered by Mr. Navneet Kataria on "VNA measurement fundamentals and its use in industry followed by live demo" on 27th-31st Oct, 2014 |
| Prof. Neena Gupta      | Lecture delivered by Mr. Randhir Dhawan on "Life cycle of a product" on 27th-31st Oct, 2014   |
| Prof. Neena Gupta      | Lecture delivered by Mr. Pramod Garg on "Current trends in mobile computing" on 27th-31st Oct, 2014   |
| Prof. Neena Gupta      | Lecture delivered by Mr. Siddique on "ARM Processors & PLC" on 27th-31st Oct, 2014  |
| Dr. Rintu Khanna       | Lecture delivered by Vivek Mahajan on "Roles and development of Bus bar protection in power system" on 27th-31st Oct, 2014                      |
| Dr. Rintu Khanna       | Lecture delivered by Vishal gogna on "Power plant operations" on 27th-31st Oct, 2014  |
| Prof. T. K Jindal      | Lecture delivered by Sh. Jimmy Kansal on "Technology development to combat challenges of snow avalanches" on 27th-31st Oct, 2014                |



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| Prof. T. K Jindal    | Lecture delivered by Sh. Sudhir Dhamija on "Design and development of a rocket for military applications" on 27th-31st Oct, 2014  |
| Prof. T. K Jindal    | Lecture delivered by Sh. R.C Sharma on "Technological development and challenges in Aerospace industries" on 27th-31st Oct, 2014  |
| Dr. P. S Satsangi    | Lecture delivered by Rajeev Aggarwal on "Design of suspension and damper mounts" on 27th-31st Oct, 2014   |
| Dr. P. S Satsangi    | Lecture delivered by Dr. Ramandeep Kaur on "Role of ergonomics in manufacturing industry" on 27th-31st Oct, 2014  |
| Dr. P. S Satsangi    | Lecture delivered by Mr. Mark Schieffer on "Vibration Calibration" on 27th-31st Oct, 2014   |
| Prof. Neena Gupta    | Lecture delivered by Sh. Tripat Pal Singh on "Engineering career at Indian Navy" on 27th-31st Oct, 2014   |
| Prof. Neena Gupta    | Lecture delivered by Sh. Varun K Mahandru on "Cache design basics design of a high performance cache design for HW/SW co-designed processor" on 27th-31st Oct, 2014   |
| Prof. Neena Gupta    | Lecture delivered by Sh. Vikram Viridi on "Career Opportunities with engineering consultancy" on 27th-31st Oct, 2014  |
| Prof. Neena Gupta    | Lecture delivered by Sh. Gulshan sandhu on 27th-31st Oct, 2014  |
| Prof. Neena Gupta    | Lecture delivered by Sh. Joydeep Pal on "Exploiting linear and non linear piezoelectricity in novel semiconductor devices" on 27th-31st Oct, 2014   |
| Prof. Neena Gupta    | Lecture delivered by Prof. E.G. Rajan on "Digital image & Signal Processing" on 27th-31st Oct, 2014   |
| Dr. Poonam Saini     | Lecture delivered by Dr. Sudarshan Iyeugar, Sh. Jagpreet Singh, Prof. Awadesh Kumar Singh on "Research scholars congregation" on 12th Nov, 2014   |
| Dr. Arun Kumar Singh | Lecture delivered by Prof. Charanjit Singh Bhatia on "Frontiers in Magnetic Recording Research: Vision for 10tb/M2" on 10th Dec, 2014   |
| Dr. Suman Kant       | Lecture delivered by Dr. Ajay Batish, Dr. A. K Sharma , Dr. Pardeep kumar, Dr. R. S Walia , Dr. Vivek Jain, Dr. R. K Garg on "Design of experiment and its application in research " on 12th-16th Jan, 2015 |
| Dr. Arun Kumar Singh | Lecture delivered by Dr. Paramveer Dhillon on "Big Insight from Big Data" on 19th Jan, 2015   |

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| Dr. Divya Bansal       | Lecture delivered by Mr. Mani Madhukar on "Cloud Computing & Bluenix-Pass model of cloud computing" on 27th Jan, 2015   |
| Mr. Tejinder Pal Singh | Lecture delivered by Dr. Sanjay Kaushikon "Training need analysis " on 23th Feb, 2015   |
| Dr. Ajay Mittal        | Lecture delivered by Dr. V. B Singh, Mr. Rakesh Tirath, Dr. S. R. S lyengar, Mr. Sourabh Deorah on "Academic workshop for framing curriculum for UG Programme (New UG Curriculum)" on 20th Mar 2015         |
| Jaimala Gambhir        | Organised an expert lecture talk on "Role of Teacher in bringing Quality Education" by professor I.K. Bhatt Director MNIT Jaipur on 20 th February 2014.  |
| Jaimala Gambhir        | Delivered an expert lecture on "Wind Energy" in Electrical Department, MNIT Jaipur on 28th March 2014.  |
| Tarlochan Kaur         | Delivered an expert lecture on Recent Trends in Solar Energy For Power Generation' Faculty Development Programme on Latest Trends in Power Engineering, at Chandigarh University , Gharuan, 9th July , 2014 |

**Sponsored Research Projects:**

| <b>Project No.</b> | <b>Title</b>  | <b>Funding Agency</b>                                  |
|--------------------|---|--|
| 1                  | Spatio-Temporal Monitoring of A Glacier Using Satellite Remote Sensing & Luminescence                 | DST  |
| 2                  | To synthesise sphingo-lipids and related compounds  | CSIR   |
| 3                  | Incentive to EFIP consider Joining  | AICTE  |
| 4                  | NASA The great moon buggy race 2009-UFO Team I  | Chandigarh Administration                              |
| 5                  | NASA The great moon buggy race 2009-Kalpna Team II  | Chandigarh Administration                              |
| 6                  | Design and development of dependable secure and efficient protocols for wireless mesh network         | DIT  |
| 7                  | Formula SAE   | Chandigarh Administration<br>Punjab Govt., Trident PTL |
| 8                  | Establishment of new national MEMS Design Centre  | IISC, Bangalore  |
| 9                  | Improvements in Cycle Rickshaws of Chandigarh   | Governor of Punjab<br>Discretionary Grant              |
| 10                 | Monitoring & performance evaluation of STP at Raipur  | Engineering Deptt.                                     |
| 11                 | Design & Development of pulse detonation propulsion system test Rig                                   | TBRL   |
| 12                 | Design and Development of Dependable, Secure and Efficient Protocols for Wireless Mesh Networks (WMN) | DIT, Govt. of India                                    |
| 13                 | Wireless Sensor Network Research Lab  | Punjab Engineering College                             |
| 14                 | U.S Space Centre Moon buggy April, 2011   | DST, Chd. Admn., Govt. of Punjab                       |
| 15                 | Ergonomic Evaluation of Industrial Systems and Consumer Products                                      | PEC  |
| 16                 | Development of Cloud Based Framework for Delivering Security as a Service                             | Deptt. Of Information Technology, Govt. of India       |
| 17                 | Information Security Assessment Model for Banks   | IBM (Sponsored University Grants)                      |
| 18                 | Project titled State of the Art Advanced decryption Facility  | In-house   |
| 19                 | Research facility in Wireless Sensor Network  | In-house   |
| 20                 | Advanced facilities in Biometric Sensor Technologies  | In-house   |
| 21                 | NASA Great Moon Buggy Race, 2012  | Private & Govt. Sponsor                                |
| 22                 | IBM Shared University Research Grant Award : Information Security Model for the Banking Industry      | International Business Machine Corporation (IBM)       |
| 23                 | Study of Glacier Dynamics using Advanced Remote Sensing Techniques                                    | Deptt. of Science & Technology, Government of India    |

|    |   |  |
|----|---|--|
| 24 | CARTS: Communication Assisted Road Transportation Systems   | ITRA   |
| 25 | An Ergonomic Evaluation of Ingress and Egress Motion of Users for CTU Buses   | Department of Science & Technology Chandigarh Administration                           |
| 26 | Grant for Embedded Curriculum and Lab Based on Intel Atom   | Intel Semi Conductor (US) Ltd.   |
| 27 | Facies Mapping of Gangotri Glacier using A WiFS data: A Super –Resolution approach                                    | Science & Engg. Research Board (SERB), Dept. of Science and Technology, Govt. of India |
| 28 | Study of cooling effect of micro channels (Micro Technology)  | Production Engineering Department  |
| 29 | Synthesis of ZnO and ZnS nanoparticles and their size estimation using different models                               | Applied Science Department   |
| 30 | Synthesis and Characterization of BiFe <sub>0.8</sub> Ti <sub>0.2</sub> O <sub>3</sub> nanoparticles by sol-gel route | Applied Science Department   |
| 31 | Development of lead free Sn-Zn-X (X-Pr, Bi) Solder  | Materials & Metallurgical Engineering Department                                       |

## Annexure - XXIII

### In-house Research Projects

| <b>Sr.No.</b> | <b>Name of the Proposal</b>  | <b>Co-ordinator's Name</b>  |
|---------------|--|---|
| 1             | Advanced facility in Biometric Sensor Technologies   | Dr. Sanjeev Sofat,<br>Prof. Manavjit Kaur<br>Prof. Divya Bansal,<br>Prof. Ajay Mittal |
| 2             | Study of Mobility Plan Components for Chandigarh   | Dr. Tripta Goyal,<br>Dr. Pardeep Gupta  |
| 3             | Bioceramic Coatings on Titanium Alloy Bioimplants  | Prof Uma Batra,<br>Prof. J.D Sharma   |
| 4             | Photonic Systems and Network Design  | Dr. Neena Gupta,<br>Prof. Divya,<br>Prof. Jyoti Kedia                                 |
| 5             | Development of Pulse Detonation Test facility  | Dr. T.K Jindal,<br>Prof. Y.S Chauhan  |
| 6             | Ionic Liquid Mediated Synthesis of Metal and Metal Oxide based Nanomaterials for Environmental Catalysis | Dr. Vasundhara Singh,<br>Dr. Satyendra Singh  |
| 7             | Development of ADI and its commercialization   | Prof. J.D.Sharma  |
| 8             | Synthesis and Characterization of Nano-structured Materials for Memory Application and Catalysis         | Prof. Vasundhara Singh  |
| 9             | Establishment of Facility for Embedded Systems   | Prof. Neelu Jain<br>& Prof. Rita Mahajan  |
| 10            | Password Recovery Facility   | Prof. Divya<br>& Prof. Sanjeev Sofat  |
| 11            | Installation of Supersonic Open-jet Wind Tunnel with Data Acquisition System                             | Prof. Rakesh Kumar<br>& Prof Kishori Lal  |
| 12            | Ergonomics Evaluation of Industrial Systems and Consumer Products  | Prof. Parveen Kalra<br>& Prof. R.S. Walia   |

**Research Initiation Project Award (RIPA)**

| <b>S.No.</b> | <b>Title of the Project</b>   | <b>P.I. Name</b>       | <b>Suponosring Agency</b> |
|--------------|---|------------------------|---------------------------|
| 1            | Synthesis of magnetically separable nanocatalysts for fine chemicals and waste water treatment  | Prof. Vasundhara Singh | PEC & TEQIP-II            |
| 2            | Software clone detection through data mining  | Prof. Shilpa           | PEC & TEQIP               |
| 3            | Design and performance evaluation of ad hoc routing protocols for vehicular ad hoc networks   | Prof. Sudesh Rani      | PEC & TEQIP               |
| 4            | Real time implementation of optimized switching scheme for SPV panels fed CMLI using neural network   | Prof. Jagdish Kumar    | PEC & TEQIP               |
| 5            | Experimental analysis of seat vibrations of automobile for non uniform inputs   | Prof. Tejbir Kaur      | PEC & TEQIP               |
| 6            | An experimental investigation on cryogenic machining of titanium alloy  | Prof. Achitanand Dubey | PEC & TEQIP               |
| 7            | Opto electronic and photonic integrated design  | Prof. Neena Gupta      | PEC & TEQIP               |
| 8            | Experimental investigation on fabricated electro chemical spark machining setup for effective machining of non conductive ceramics                | Prof. Alkash Manna     | PEC & TEQIP               |
| 9            | A frame work for proactive recovery protocols in wired and mobile ad hoc network for distributed transition processing: design and implementation | Prof. Poonam Saini     | PEC & TEQIP               |
| 10           | Development and analysis of efficient protocols for wireless sensor networks  | Prof. Tirlok Chand     | PEC & TEQIP               |
| 11           | Modeling GPS based public transport tracking system through network simulation.   | Prof. Sandeep K. Harit | PEC & TEQIP               |

|    |   |                            |             |
|----|---|----------------------------|-------------|
| 12 | Structure, dielectric and ferroelectric characterization of modified (1-x)BiFeO <sub>3</sub> -(x)PbTiO <sub>3</sub>               | Prof. Sanjeev Kumar        | PEC & TEQIP |
| 13 | Use of geographical information system (GIS) as a tool for monitoring of traffic characteristics of the Chandigarh city           | Prof. Har Amrit Sandhu     | PEC & TEQIP |
| 14 | A novel active power line conditioner to compensate dominant current harmonics under realistic utility conditions                 | Prof. Dhiraj Bharat        | PEC & TEQIP |
| 15 | An investigation on Mechanical Properties and Permeability of Recycled Aggregate Concrete using Nano Silica                       | Prof. Arshdeep Singh       | PEC & TEQIP |
| 16 | Design and analysis of solar concentrating cooking system with HTF and PCM heat storage   | Prof. Ankit Yadav          | PEC & TEQIP |
| 17 | Effects of Channel slope and bed roughness on hydraulic jump  | Prof. Mohit Kumar          | PEC & TEQIP |
| 18 | Power quality improvement of non linear system loads  | Prof. Tajinder Singh Saggi | PEC & TEQIP |
| 19 | Heat transfer enhancement in parallel and counter flow configurations of pipe in pipe heat exchanger using mechanical turbulators | Prof. Gurjeet Singh        | PEC & TEQIP |
| 20 | Parameter optimization for small hole drilling in hard and composite materials using drill EDM                                    | Prof. Kamal Kumar          | PEC & TEQIP |
| 21 | Development of geothermal energy base domestic room cooling and heating device.   | Prof. T.K Jindal           | PEC & TEQIP |





**2.17 Action Plan for Academic performance of SC/ST/OBC/Academically weak Students as per Table-19**

Following activities have been planned:

1. Identification of weak students at Undergraduate and Postgraduate levels.
2. Conducting communication skill and personality development programmes and workshops.

| Activity  | Project Months |     |     |       |       |       |       |       |
|---|----------------|-----|-----|-------|-------|-------|-------|-------|
|   | 1-3            | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-21 | 22-24 |
| <b>Action Plan for Academically weak students</b><br>- Summer Courses<br>- Communication skill development<br>- Course Workshop<br>- Finishing School: Personality Development Workshop |                |     |     |       |       |       |       |       |

3. Summer courses to the undergraduate and post graduate weak and underprivileged students of PEC University of Technology.