

**THE ANNUAL QUALITY ASSURANCE REPORT
(AQAR)
OF THE
INTERNAL QUALITY ASSURANCE CELL
(IQAC)**



PEC University of Technology

**A Deemed University under Section 3 of UGC Act
(Formerly Punjab Engineering College, Chandigarh)**

Sector-12, Chandigarh-160012

Phone No : (0172) 2746074, 2753280

Email ID: director@pec.ac.in

iqac@pec.ac.in

**Submission of the
AQAR to the NAAC
for the Academic Year**

2012-13

1. Kindly provide the details of the institution

Name of Institution: PEC University of Technology
Year of Establishment of the Institution: 1921
Address Line 1: Sector-12
Address Line 2:
City/Town: Chandigarh
State: U.T.
Postal Code: 160012
Email Address: iqac@pec.ac.in

2. NAAC Accreditation/ Reaccreditation Details

Year of Accreditation/ Reaccreditation: NA
Current Grade: NA
CGPA: NA

3. Institutional Status**4. Contact Person Details**

Name of Head of Institution: Prof. Manoj Arora
Contact Phone: 0172-2746074
Email: director@pec.ac.in
Website URL: pec.ac.in
Name of IQAC Co-ordinator: Dr. Neelu Jain
Email: iqac@pec.ac.in

3.

SECTION I

This section is related to institutional goals, vision and mission, academic programmes and activities, strategies and action plans for institution building.

5. Number of academic programmes existing (Enter a number; 0 for nil)

Undergraduate (BA/B.Sc./B.Com etc.)	0
Post Graduate (MA/M.Sc./M.Com etc.)	0
Research Programmes (M.Phil/P.hD)	11
Certificate Programmes	0
Professional Programmes (B.Tech/M.Tech/B.Ed/M.Ed/Medicine/Pharmacy/Paramedical/Nursing etc)	9(B.Tech.)+14(M.Tech)=23
Other value added programmes	0
Any other programme offered (Specify)	0

6. Details on Programme Development (Enter a number; 0 for nil)

New programmes added during the year	1
New programmes designed	0
Programmes under revision	14
Interdepartmental collaborative programmes	03
Inter institutional collaborative programmes	0
Number of review committee recommendations implemented (Total)	0
Number of NAAC peer team recommendations implemented	0
Number of UGC/any other expert committee recommendations implemented	0
Number of review committee recommendation under implementation	0
Number of NAAC peer team recommendations under implementation	0
Number of UGC/ any other expert committee recommendations under implementation	0

SECTION II

This section surveys the quality sustenance and development activities during the year taken up by IQAC. It reflects quality management structure, strategies, and processes which would enhance academic quality of the institution as perceived by faculty, students, alumni, and other stakeholders (social perception of the institution) inline with the vision, mission and goals of the institution.

12. Establishment details

Year of establishment of IQAC

DD	MM	YYYY
01	08	2010

13. Composition of IQAC (Enter a number; 0 for nil)

Number of IQAC members	18
Number of Alumni in IQAC	01
Number of Students in IQAC	0
Number of Faculty in IQAC	15
Number of Administrative Staff in IQAC	01
Number of Technical Staff in IQAC	02
Number of Management Representatives	0
Number of External experts in IQAC	3
Number of any other stakeholder and community representatives	0

14. IQAC Meetings

Number of IQAC meetings held during the year

0

15. Whether Calendar of activities of IQAC formulated for the academic year

NO

16. IQAC Plans for Development (Enter a number; 0 for nil)

Number of academic programmes proposed	0
Number of value added programmes proposed	0
Number of skill oriented programmes proposed	0
Number of faculty competency and development programmes proposed	0
Number of other staff development programmes proposed	0
Number of student mentoring programmes proposed	0
Number of co-curricular activities proposed	0
Number of inter departmental cooperative schemes proposed	0
Number of community extension programmes proposed	0
Any other programmes proposed (Specify)	0

17. IQAC Plans for development & Implementation (Enter a number; 0 for nil)

Number of academic programmes implemented	2
Number of value added programmes implemented	0
Number of skill oriented programmes implemented	0
Number of faculty competency and development programmes implemented	2
Number of other staff development programmes implemented	0
Number of student mentoring programmes implemented	0
Number of co-curricular activities implemented	
Number of inter departmental cooperative programs implemented	1
Number of community extension programmes implemented	11
Any other programmes suggested that are implemented (Specify)	

21. Any significant contribution made by IQAC on quality enhancement during current year (Please provide details in bullet format)

- Mass cuts reduced by almost 50%.
- Transparency of student attendance & evaluation is further increased
- More than 95% classes being engaged by all instructors.

23. Whether any systematic student feedback mechanism is in place?

Yes

24. Feedback Details (if answer to Question 23 is Yes)

Percentage of classes where student feedback is taken:

25. Is feedback for improvement provided to the faculty?

Yes

7. Faculty Details (Enter a number; 0 for nil)

Total faculty strength required as per norms for all programmes	162
Total faculty on rolls	151 (including contractual)
Faculty added during the year	26
Faculty positions vacant	49
Faculty left during the year	12
Total number of visiting faculty	0
Total number of guest faculty	—

8. Qualification of Faculty

PhD and Above	69
MPhil	04
Masters	72
Any other (Specify)	06

9. Faculty qualification improvement

PhD awarded to existing faculty	02
MPhil awarded to existing faculty	0
Any other degree awarded to existing faculty	0

10. Administrative Staff Details (Enter a number; 0 for nil)

Administrative staff (total sanctioned)	209
Administrative staff (Actual strength)	128
Added during the year of reporting	02
Left during the year	03
Number of posts vacant	81

11. Technical Support Staff Details (Enter a number; 0 for nil)

Technical Support Staff (Total sanctioned strength)	190
Technical Support Staff (Actual strength)	118
Added during the year	0
Left during the year	5
Number of posts vacant	72

SECTION III

In this section the events, activities, and outputs in the field of research and academic areas are being surveyed.

22. Academic Programmes

Number of new academic programmes developed or designed by faculty	01
Number of faculty members involved in curriculum restructuring/revision/syllabus development	71
Number of programmes in which evaluation process reformation taken up and implemented	05
Number of active teaching days during the current academic year	140
Average percentage of attendance of students	85%
Percentage of classes engaged by guest faculty and temporary teachers	12%
Number of self financed programmes offered	03
Number of aided programmes offered	19
Number of programmes discontinued during the year	01

23. Whether any systematic student feedback mechanism is in place ?
 Yes
24. Feedback Details (If answer to Question 20 is Yes)

Percentage of courses where student feedback is taken	100%
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25. Is feedback for improvement provided to the faculty?
 Yes

Number of major research projects undertaken during the year	06
Number of minor research projects undertaken during the year	NIL
Number of major ongoing projects	25
Number of minor ongoing projects	0
Number of major projects completed	0
Number of minor projects completed	0
Number of major project proposals submitted for external funding	6
Number of minor project proposals submitted for external funding	0
Number of research publications in peer reviewed journals	148
Number of research publications in international peer reviewed journals	136
Number of research publications in national peer reviewed journals	12
Number of research papers accepted for publication in international peer reviewed journals	0
Number of research papers accepted for publication in national peer reviewed journals	0
Average of impact factor of publications reported	
Number of books published	3
Number of edited books published	0
Number of books (single authored) published	1
Number of books (coauthored) published	2
Numbers of conferences attended by faculty	22
Number of international conferences attended	05
Number of national conferences attended	17
Number of papers presented in conferences	22
Number of papers	

presented in international conferences

Number of papers

17

presented in national conferences

Number of conferences

01

organized by the institution

Number of faculty acted as experts resource persons

24

Number of faculty acted as experts resource persons - international

0

Number of faculty acted as experts resource persons - national

24

Number of collaborations with international institutions

01

Number of collaborations with national institutions

03

Number of linkages created during the year

04

Total budget for research for current year as a percentage of total institution budget

1.95%

Amount of external research funding received in the year

52.21 Lacs

Number of patents received in the year

0

Number of patents applied for in the year

0

Number of research awards/recognitions received by faculty and research fellows of the institute in the year

01

Number of PhDs awarded during the year

06

Percentage of faculty members invited as external experts/resource persons/reviewers/referees or any other significant research activities

9.7%

SECTION IV

This section deals with Student Mentoring and Support System existing in the institution. This includes student activities, mentoring, and opportunities for development and inclusive practices.

27. Student Details and Support Mechanisms

The total intake of students for various courses (Sanctioned)

Actual enrollment during the year

Student dropout percentage during the year

Success percentage in the final examination across the courses

Number of academic distinctions in the final examination and percentage

Number of students who got admitted to institutions of national importance

Number of students admitted to institutions abroad

Number of students qualified in UGC NET/ SET

Number of students qualified GATE/ CAT/ other examination (Specify)

28. Does student support mechanism exist for coaching for competitive examinations?

29. Student participation, if response is yes to Qn. 27

Number of students participated

30. Does student counselling and guidance service exist ?

31. Student participation, if answer to Qn. 29 is yes

Number of students participated

32. Career Guidance

Number of career guidance programmes organized

Percentage of students participated in career guidance programmes

33. Is there provision for campus placement?

 Y

34. If yes to Qn. 32

Number of students participated in campus selection programmes

Number of students selected for placement during the year

35. Does gender sensitization program exist ?

 N

36. If Answer is Yes to Qn 34

Number of programmes organized

37. Student activities

Number of students participated in external cultural events	236
Number of prizes won by students in external cultural events	66
Number of cultural events conducted by the institute for the students	64
Number of students participated in international sports and games events	0
Number of students participated in national level sports and games events	01
Number of students participated in state level sports and games events	0
Number of students participated in university level sports and games events	94
Number of prizes won by students in international sports and games events	0
Number of prizes won by students in national level sports and games events	0
Number of prizes won by students in state level sports and games events	0
Number of prizes won by students in university level sports and games events	3
Number of sports and games events conducted by the institute for the students	23

38. Composition of students

Percentage of Scheduled Caste	29%
Percentage of Scheduled Tribe	5%
Percentage of other backward communities	0
Percentage of women students	0
Percentage of physically challenged	6%
Percentage of rural students	0
Percentage of urban students	0

39. Scholarships and Financial Support

Number of students availing financial support from the institution

282

Amount disbursed as financial support from the institution

1,50,10,000

Number of students awarded scholarship from the institution

334

Number of students received notable national/international achievements/recognition

—

40. Student initiatives

Number of community upliftment programmes initiated by students

05

Number of literary programmes initiated by students

02

Number of social action initiatives based on science / environment initiated by students

02

Number of student research initiatives

11

41. If answer to question 40 is Yes, please provide details of all applied to

42. If answer to question 41 is Yes, please provide details of all applied to

1. Administrative procedures including finance
2. Student activities
3. Student records
4. Evaluation and assessment programme
5. Research administration
6. Others

Enter the respective dates corresponding to the serial numbers

SECTION V

This section surveys the Governance and Innovation at the institution related to quality management. The educational management strategies adopted and in practice for achieving the objectives are focussed.

41. Whether perspective plan for overall developmental activities is created ?

- Yes
- No

42. If the answer for Qn. 40 is Yes, is the plan implemented and monitored ?

- Yes
- No

43. Whether benchmarking is created for institutional quality management efforts ?

- Yes
- No

44. If the answer to Question 42 is Yes, please list the benchmarking in various areas of development in bullet format

45. Is a Management Information System (MIS) in place ?

- Yes
- No

46. If answer to question 44 is Yes, please provide details of MIS applied to

- 1. Administrative procedures including finance**
- 2. Student admission**
- 3. Student records**
- 4. Evaluation and examination procedures**
- 5. Research administration**
- 6. Others**

(enter the respective details corresponding to the serial numbers)

47. Existence of learning resource management

	Yes	No
e-database in library	<input checked="" type="radio"/>	<input type="radio"/>
ICT and smartclass room	<input checked="" type="radio"/>	<input type="radio"/>
e-learning sources (e-Books, e-Journals)	<input checked="" type="radio"/>	<input type="radio"/>
Production of teaching modules	<input type="radio"/>	<input checked="" type="radio"/>
Interactive learning facilities	<input type="radio"/>	<input checked="" type="radio"/>

48. Internal resource mobilization : Kindly provide the amount contributed

Research	<input type="text" value="125.00 Lacs"/>
Consultancy and training	<input type="text" value="0"/>
Student contribution	<input type="text" value="0"/>
Alumni contribution	<input type="text" value="0"/>
Wellwishers	<input type="text" value="0"/>

49. Infrastructure and welfare spending: Please specify the amount

Amount spent for infrastructure development	<input type="text" value="103343750/-"/>
Amount spent for student welfare	<input type="text" value="0"/>
Amount spent for staff welfare	<input type="text" value="0"/>

50. Is delegation of authority practiced

- Yes
 No

51. Does grievance redressal cell exist ?

	Yes	No
Faculty	<input type="radio"/>	<input checked="" type="radio"/>
Students	<input type="radio"/>	<input checked="" type="radio"/>
Staff	<input type="radio"/>	<input checked="" type="radio"/>

52. Grievances received from faculty and resolved (Enter a number; 0 for nil)

Number of grievances received	<input type="text" value="0"/>
Number of grievances resolved	<input type="text" value="0"/>

53. Number of grievances received from students and resolved (Enter a number; 0 for nil)

Number of grievances received	<input type="text" value="0"/>
Number of grievances resolved	<input type="text" value="0"/>

54. **Number of grievances received from other staff members and resolved (Enter a number; 0 or nil)**

Number of grievances

0

Number of grievances resolved

0

55. **Has the institution conducted any SWOT analysis during the year**

Yes

No

56. **The SWOT analysis was done by internal or by external agency**

Internal

External

57. **Strengths**

1. Ranking amongst top 20 technical institutions in the country.
2. 146 acres campus located in Chandigarh having all the facilities for the holistic development of students.
3. Almost 100% placements for UG programmes.

58. **Weakness**

1. Comparatively weak research & development culture.
2. 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.
3. Quality of ME students not as high as UG programmes.

59. **Opportunities**

1. High scope for R&D and consultancy projects by collaborating and networking with industries and R&D labs.
2. Enhancement of quality of education through training and knowledge up-gradation of faculty and staff.

60. **Threats**

1. Mushrooming growth of engineering institutions.
2. Rigid government rules and regulations.

61. **Identify any significant progress made by the institution.**

1. Mass cuts reduced by almost 50%.
2. All faculty rooms renovated.
3. Transparency of student attendance & evaluation is further increased.
4. Number of Ph.Ds awarded increased (from 2 to 6).
5. ME curriculum & scheme revised including compulsory labs, industry visits & Case studies.
6. One new ME program on VLSI Design has been started in E&EC. Deptt.
7. Only 61% of faculty have shortage of LTP more than 5% which is an improvement over the previous year for which this figure was 10%.
8. Number of Ph.D candidates increased.

62. How do you perceive the role of NAAC in the quality development of your institution (Suggestions in bullet format to be given below)

Neelja
22/8/14

(Dr. Neelja Jain)
Coordinator IQAC