

PG-Curriculum Structure of ME –Production and Industrial Engineering

1st Semester

S. No	Course Code	Course Name	L	T	P	Credits
1.	PRN 511	Program core-1 (Design and Manufacture of Mechanical Assemblies)	3	0	0	3
2.	PRN 512	Program core-II (Computer Aided Manufacturing)	3	0	0	3
3.	MAN 503	Open core-1 Program Mathematics/ Mathematics (Advanced Mathematics)	3	0	0	3
4.		Program Elective I	3	0	0	3
5.		Program Elective II	3	0	0	3
6.	IDN 510	Program Lab-I (Computer Aided Engineering Lab)	0	0	3	2
Total						17

2nd Semester

S. No	Course Code	Course Name	L	T	P	Credits
1.	MAN 505	Open core-2 (Design of Experiments and Research Methodology)	3	0	0	3
2.	PRN 521	Program core-III (Production Management systems)	3	0	0	3
3.	PRN 522	Program core-IV (Welding Engineering)	3	0	0	3
4.		Program Elective III	3	0	0	3
5.		Open Elective*	3	0	0	3
6.	PRN 520	Program lab – II** (Advanced Manufacturing Lab)	0	0	3	2
Total						17

* It could be intra/inter department ME course

** To include minimum of 2 industrial visits of half day duration to nearby industries.

3rd Semester

S. No.	Course Code	Course Name	L	T	P	Credit
1.		Program Elective IV	3	0	0	3
2.		Program Elective V	3	0	0	3
3.	PRN 531	Case Histories and Industry Experiences [#]	0	0	2	1
4.	PRN 532	Seminar and Technical Writing	0	0	2	1
5.	PRN 598	Project/Industry-based Project – I	0	0	24	12
Total						20

To include 4 to 5 invited lectures from industrial experts.

OR

3rd Semester

S. No.	Course Code	Course Name	L	T	P	Credit
1.	PRN 531	Case Histories and Industry Experiences [#]	0	0	2	1
2.	PRN 532	Seminar and Technical Writing	0	0	2	1
3.	PRN 598	Project/Industry-based Project – I	0	0	24	12
Total						14

To include 4 to 5 invited lectures from industrial experts.

4th Semester

S. No.	Course Code	Course Name	L	T	P	Credit
1.	PRN 599	Project/Industry-based Project – II	0	0	36	18
Total						18

List of Program Elective-I , II, III, IV or V (Any five)

Course Code	Course Name	L T P	Credits
PRN 551	Non Conventional Machining Processes	3-0-0	3
PRN 552	Machining Science	3-0-0	3
PRN 553	Metal Forming	3-0-0	3
PRN 554	Casting Technology	3-0-0	3
PRN 555	Finite Element Analysis	3-0-0	3
PRN 556	Advanced Machine Tool Design	3-0-0	3
IDN 522	Applied Ergonomics	3-0-0	3
PRN 557	Industrial Robotics	3-0-0	3
PRN 558	Flexible Manufacturing Systems	3-0-0	3
PRN 559	Maintenance and Reliability Engineering	3-0-0	3
PRN 560	Industrial automation	3-0-0	3
PRN 561	Non Destructive Testing	3-0-0	3
IDN 551	Materials, Manufacturing and Design	3-0-0	3
PRN 562	Plastics Engineering	3-0-0	3
PRN 563	Operation Management	3-0-0	3
Total			09/15
Program Elective Total			15-0-0
			09/15

List of Open Elective (Any One)

Course Code	Course Name	L T P	Credits
PRN 571	Quality Management System	3-0-0	3
PRN 572	Value Engineering	3-0-0	3
Total			03