

1. First Semester Curriculum Structure (Common to All Branches)

Sl. No.	Category of Course	Code No.	Course Title	Hours per week			Total contact hours / week	Credits
				L	T	P		
1.	Mandatory course at the beginning of the first semester		Induction Programme Two weeks	Two week intensive			40	0
2.	Basic Science	BS101	Mathematics-I	2	1	0	3	3
3.	Basic Science	BS103	Applied Physics-I	2	1	0	3	3
4.	Basic Science	BS105	Applied Chemistry	2	1	0	3	3
5.	Humanities & Social Science	HS101	Communication Skills in English	2	0	0	2	2
6.	Engineering Science	ES105	Measurements and Metrology	1	1	0	2	2
7.	Engineering Science	ES101	Engineering Graphics	0	0	3	3	1.5
8	Engineering Science	ES103	Engineering Workshop Practice Bench work and fitting Turning operations Milling operations Arc welding operations	0	0	5	5	2.5
8.	Basic Science	BS107	Applied Physics-I Lab	0	0	2	2	1
9.	Basic Science	BS109	Applied Chemistry Lab	0	0	2	2	1
10.	Humanities & Social Science	HS103	Sports and Yoga	0	0	2	2	1
11.	Humanities & Social Science	HS105	Communication Skills in English Lab	0	0	2	2	1
Total Credits								21

2. Second Semester Curriculum Structure Common to All Branches

Sl. No	Category of Course	Code No.	Course Title	Hours per week			Total contact hours/ week	Credits
				L	T	P		
1	Basic Science	BS102	Mathematics-II	3	1	0	4	4
2	Basic Science	BS104	Applied Physics-II	2	1	0	3	3
3	Engineering Science	ES102	Introduction to IT Systems	2	0	0	2	2
4	Engineering Science	ES104	Fundamentals of Electrical & Electronics Engineering	2	1	0	3	3
5	Engineering Science	ES106	Engineering Mechanics	2	1	0	3	3
6	Basic Science	BS106	Applied Physics-II Lab	0	0	2	2	1
7	Engineering Science	ES108	Introduction to IT Systems Lab	0	0	4	4	2
8	Engineering Science	ES110	Fundamentals of Electrical & Electronics Engineering Lab	0	0	2	2	1
9	Engineering Science	ES112	Engineering Workshop Practice Bench work and fitting Turning operations Milling operations Grinding operations Arc welding operations	0	0	6	6	3
10	Audit	AU102	Environmental Science	2	0	0	2	0
Total Credits								23

3. III Semester Curriculum Structure

Sl. No.	Category	Code No.	Course Title	Hours per week			Total contact hours/ week	Credits
				L	T	P		
1	Program core course	MEPC201	Basic Mechanical Engineering	2	0	0	2	2
2	Program core course	TDPC203	Production Technology	3	1	0	4	4
3	Program core course	MEPC205	Material Science & Engineering	2	0	0	2	2
4	Program core course	TDPC207	Design of Press tool-1	3	1	0	4	4
5	Program core course	TDPC209	Manufacturing Engineering CNC-1	3	0	0	3	3
6	Program core course	TDPC211	Geometric Dimensioning and Tolerancing	2	0	0	2	2
7	Program core course	TDPC213	Manufacturing of Press tools Assembly and tryout-1	0	0	6	6	3
8	Program core course	TDPC215	Computer Aided Press Tool Drawing Practice-1	0	0	4	4	2
9	Program core course	TDPC217	CNC Turning and Milling operations-1	0	0	2	2	1
10	Summer Internship-I (4 weeks) after II nd Sem	SI201	Internship-1	0	0	0	0	2
Total				15	2	12	29	25

4. IV Semester Curriculum Structure

Sl. No.	Category	Code No.	Course Title	Hours per week			Total contact hours/ week	Credits
				L	T	P		
1	Program core course	MEPC202	Measurements & Metrology-2	2	1	0	3	3
2	Program core course	MEPC204	Strength of Materials	2	0	0	2	2
3	Program core course	TDPC206	Design of Press Tools-2	2	0	0	2	2
4	Program Elective course	TDPE202	Jigs and Fixtures Engineering	2	0	2	4	3
5	Program Elective course	TDPE204	Manufacturing Engineering CNC-2	3	0	0	3	3
6	Program core course	MEPC208	Material Testing Lab	0	0	2	2	1
7	Program core course	MEPC210	Measurements & Metrology Lab	0	0	2	2	1
8	Program core course	TDPC212	CNC Turning and Milling operations-2	0	0	4	4	2
9	Program core course	TDPC214	Computer Aided Press Tool Drawing Practice-I	0	0	4	4	2
10	Minor Project	PR202	Manufacture of Press Tool assembly and Tryout -2	0	0	4	4	2
11	Mandatory Course	AU202	Essence of Indian Knowledge and Tradition	2	0	0	2	0
Total				13	1	18	32	21

5. V Semester Curriculum Structure

Sl. No.	Category	Code No.	Course Title	Hours per week			Total contact hours	Credits
				L	T	P		
1	Program core course	TDPC301	Advanced Manufacturing Processes (EDM WIRECUT)	2	0	0	2	2
2	Program core course	TDPC303	Heat Treatment and material testing.	1	0	0	1	1
3	Program core course	MEPC305	Industrial Engineering & Management	3	0	0	3	3
4	Program Elective course	TDPE301	Design of Injection Moulds	3	1	0	4	4
5	Program Elective course	TDPE303	Pneumatics and Hydraulics controls.	2	0	0	2	2
6	Open Elective	TDOE301	Project Management	3	0	0	3	3
7	Program core course	TDPC307	Design Drawing of Moulds on 3D CAD -1	0	0	6	4	3
8	Program core course	TDPC309	TIG & MIG Welding operations	0	0	4	4	2
9	Summer Intern-ship-II (6 weeks) after IV Semester	SI301	Summer Internship II	0	0	0	0	3
10	Mould Project	PR301	Manufacturing of Moulds assembly and tryout	0	0	6	6	3
Total				14	1	16	31	26

6. VI Semester Curriculum Structure

Sl. No.	Category	Code No.	Course Title	Hours per week			Total contact hours	Credits
				L	T	P		
1	Program core course	TDPC301	Advanced Manufacturing Processes (EDM WIRECUT)	2	0	0	2	2
2	Program core course	TDPC303	Heat Treatment and material testing.	1	0	0	1	1
3	Program core course	MEPC305	Industrial Engineering & Management	3	0	0	3	3
4	Program Elective course	TDPE301	Design of Injection Moulds	3	1	0	4	4
5	Program Elective course	TDPE303	Pneumatics and Hydraulics controls.	2	0	0	2	2
6	Open Elective	TDOE301	Project Management	3	0	0	3	3
7	Program core course	TDPC307	Design Drawing of Moulds on 3D CAD -1	0	0	6	4	3
8	Program core course	TDPC309	TIG & MIG Welding operations	0	0	4	4	2
9	Summer Intern-ship-II (6 weeks) after IV Semester	SI301	Summer Internship II	0	0	0	0	3
10	Mould Project	PR301	Manufacturing of Moulds assembly and tryout	0	0	6	6	3
Total				14	1	16	31	26