

Plastic Technology

Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	23
	Mechanics of Solids	4	0	2	6	70	30	30	20	150	23
	Introduction to Plastic Material Science	3	0	3	6	70	30	30	20	150	23
	Basic of Plastic Material Testing	4	0	3	7	70	30	30	20	150	23
	Manufacturing of Plastic Materials-1	3	0	3	6	70	30	30	20	150	23
	Total	17	2	11	30						

Semester IV

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Computer Oriented Numerical Techniques	3	2	0	5	70	30	30	20	150	23
	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	23
	Plastics Processing And Thermal Engineering	3	0	3	6	70	30	30	20	150	23
	Entrepreneurship And Creativity in Plastic Engineering	3	0	0	3	70	30	0	0	100	23
	Plastics Industrial Hydraulics And Pneumatics	3	0	3	6	70	30	30	20	150	23
	Manufacturing of plastics Material-2	4	0	3	7	70	30	30	20	150	23
	Total	19	2	9	30						

Semester V

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Plastic Processing & machinery (Inter Disciplinary)	3	0	2	5	70	30	30	20	150	23
	Polymer Chemistry	3	0	2	5	70	30	30	20	150	23
	Injection Molding Tech	3	0	3	6	70	30	30	20	150	23
	Plastic Extrusion Technology	3	0	2	5	70	30	30	20	150	23
	Plastics Recycling & Waste Treatment	3	0	2	5	70	30	30	20	150	23
	Seminar-1	0	0	4	4	0	0	100	50	150	23
	Total	15	0	15	30						

Semester VI

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - I	3	0	3	6	70	30	30	20	150	23
	Advance Plastics Processing	3	0	2	5	70	30	30	20	150	23
	Polymer reaction engineering and Rheology	3	0	2	5	70	30	30	20	150	23
	Plastic Process Instrumentation and Process Control	3	0	2	5	70	30	30	20	150	23
	Advanced Plastics Testing	3	0	2	5	70	30	30	20	150	23
	Seminar-2	0	0	4	4	0	0	100	50	150	23
	Total	15	0	15	30						

Semester VII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - II	3	0	3	6	70	30	30	20	150	23
	Speciality Plastics & applications	3	0	2	5	70	30	30	20	150	23
	Medical Plastics	3	0	2	5	70	30	30	20	150	23
	Plastics Mold & Die Design	3	0	2	5	70	30	30	20	150	23
	FRP Technology and composites	3	0	2	5	70	30	30	20	150	23
	Project-1	0	0	4	4	0	0	100	50	150	23
	Total	15	0	15	30						

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - III	3	0	3	6	70	30	30	20	150	23
	Plastics Mold and Product Design	3	0	3	6	70	30	30	20	150	23
	Polymer Alloys and Blends	3	0	2	5	70	30	30	20	150	23
	Nano Polymer Technology	3	0	2	5	70	30	30	20	150	23
	Project-2	0	0	8	8	0	0	100	50	150	23
	Total	12	0	18	30						

Departmental Elective I:

Plastic Packaging Technology
Biopolymers

Departmental Elective II:

Plastic Structure property relationship
Adhesive & sealants

Departmental Elective III:

Additives & compounding
Mold Manufacturing Technology

Note: ALA Component, OEP Component and Design Module I, II and III (to be offered in 2nd Year , 3rd year and 4th year respectively) shall be displayed in the final teaching scheme