

Department of Plastic & Polymer Engineering

BACHELOR OF TECHNOLOGY (PLASTIC & POLYMER ENGINEERING)												
FIRST SEMESTER												
SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credits
									Seasonal Exam	ESE		
THEORY COURSES												
			L	T	P	CT	TA	Total	ESE			
1	BSCT10	Mathematics –I	3	1	0	30	20	50	100	150	4	
2	BSCT102/ BSCT103	*Physics/Chemistry	3	1	0	30	20	50	100	150	4	
3	BHST101	English	2	0	0	30	20	50	50	100	2	
4	BCST101 / BEET101	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4	
5	Induction Program		3 Weeks Duration									
PRACTICAL / TRAINING / PROJECT												
1	BSCP102/ BSCP103	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5	
2	BHSP101	Language Lab	0	0	2	-	25	25	25	50	1	
3	BCSP101 / BEEP101	Programming for Problem Solving Lab / Basic Electrical Engineering			3	-	25	25	25	50	2	
		Total	11	2	8					700	17.5	
SECOND SEMESTER												
THEORY COURSES												
1	BSCT201	Mathematics –II	3	1	0	30	20	50	100	150	4	
2	BSCT202/ BSCT20	*Physics/ Chemistry	3	1	0	30	20	50	100	150	4	
3	BCST201 / BEET201	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4	
4	BEST201	Environmental Sciences	2	0	0	-	-	-	50	50	-	
PRACTICAL / TRAINING / PROJECT												
1	BSCP202/ BSCP203	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5	
2	BMEP201	Workshop/ Manufacturing Practices	1	0	3	-	50	50	50	100	3	
3	BMEP202	Engineering Graphics & Design	1	0	3	-	50	50	50	100	3	
4	BCSP201 / BEEP201	Programming for Problem Solving Lab / Basic Electrical Engineering	0	0	2	-	25	25	25	50	1.5	
		Total	11	3	11	-	-	-	-	950	21	

* Physic Syllabus is varied from branch to branch

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THIRD SEMESTER											
SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total	Credits
								Seasonal Exam	ESE		
THEORY COURSES											
			L	T	P	CT	TA	Total	ESE		
1	TMA-301	Mathematics –III	3	1	0	30	20	50	100	150	4
2	THU-301	Engineering Economics	2	1	0	15	10	25	50	75	3
3	TME-301	Material Science	3	0	0	30	20	50	100	150	4
4	TME-302	Engineering Thermodynamics	2	1	0	15	10	25	50	75	3
5	TCE-301	Fluid Mechanics	3	1	0	30	20	50	100	150	4
6	TPP-301	Introduction to Polymer Science	3	1	0	30	20	50	100	150	4
PRACTICAL / TRAINING / PROJECT											
1	PME-351	Material Science Lab	0	0	2	-	25	25	25	50	1
2	PME-352	Machine Drawing	1	0	3	-	50	50	50	100	3
3	PCE-351	Fluid Mechanics Lab	0	0	3	-	25	25	25	50	2
4	GP-301	General Proficiency (NSS/NSS/Sports/Cultural)	-	-	-	-	-	50	-	50	-
		Total	17	6	8					1000	28
FOURTH SEMESTER											
THEORY COURSES											
			L	T	P	CT	TA	Total	ESE		
1	ECH-402	Heat Transfer	3	1	0	30	20	50	100	150	4
2	TME-403	Mechanical Measurement	3	1	0	30	20	50	100	150	4
3	TME-405	Industrial Engineering	2	1	0	15	10	25	50	75	3
4	TPP-401	Polymer Chemistry	3	1	0	30	20	50	100	150	4
5	TPP-402	Thermoplastic Material	3	1	0	30	20	50	100	150	4
6	TPP-403	Thermoset Material	3	1	0	30	20	50	100	150	4
PRACTICAL / TRAINING / PROJECT											
1	PME-452	Measurement & Metrology Lab	0	0	3	-	25	25	25	50	2
2	PPP-451	Analysis & Identification of Polymer Lab	0	0	3	-	25	25	50	75	3
3	GP-401	General Proficiency (NSS/NSS/Sports/Cultural)	-	-	-	-	-	50	-	50	-
		Total	17	6	6	-	-	-	-	1000	28

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BACHELOR OF TECHNOLOGY (PLASTIC & POLYMER ENGINEERING)											
FIFTH SEMESTER											
SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total	Credits
								Seasonal Exam	ESE		
THEORY COURSES											
			L	T	P	CT	TA	Total	ESE		
1	TPP-501	Polymer Structure & Property Relationship	3	1	0	30	20	50	100	150	4
2	TPP-502	Polymer Rheology	3	1	0	30	20	50	100	150	4
3	TPP-503	Characterization of Polymers	3	0	0	30	20	50	100	150	4
4	TPP-504	Plastic Processing-I	3	1	0	30	20	50	100	150	4
5	TPP-505	Plastic Testing Technique	3	1	0	30	20	50	100	150	4
6	TPP-50	Plastic Product & Mould Design	3	1	0	30	20	50	100	150	4
PRACTICAL / TRAINING / PROJECT											
1	PPP-551	Synthesis & Polymerization Lab	0	0	3	15	10	25	25	50	2
2	PPP-554	Machine Drawing	0	0	3	15	10	25	25	50	2
		Total	18	6	6	-	-	-	-	1000	28
SIXTH SEMESTER											
THEORY COURSES											
1	TPP-601	Polymer Adhesive & Sealants	3	1	0	30	20	50	100	150	4
2	TPP-602	Polymer Blends & Composites	3	1	0	30	20	50	100	150	4
3	TPP-603	Plastic Packaging Technology	3	1	0	30	20	50	100	150	4
4	TPP-604	Additives & Compounding	3	1	0	30	20	50	100	150	4
5	TPP-605	Plastic Waste Management & Recycling	3	1	0	30	20	50	100	150	4
6	TPP-606	Plastic Processing-II	3	1	0	30	20	50	100	150	4
PRACTICAL / TRAINING / PROJECT											
1	PPP-651	Plastic Material Testing Lab	0	0	3	-	25	25	25	75	2
2	GP-601	General Proficiency (NSS/NSS/Sports/Cultural)	-	-	-	-	-	50	-	50	-
		Total	18	6	3	-	-	-	-	1000	26

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BACHELOR OF TECHNOLOGY (PLASTIC & POLYMER ENGINEERING)												
SEVENTH SEMESTER												
SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total	Credits	
								Seasonal Exam	ESE			
THEORY COURSES												
			L	T	P	CT	TA	Total	ESE			
1	TPP-701	Industrial Safety & Hazard Management	3	1	0	30	20	50	100	150	4	
2	TME-701	CAD/CAM	3	1	0	30	20	50	100	150	4	
3	TPP-702	Nylon Technology	3	0	0	30	20	50	100	150	4	
4	TPP-703	Fiber Manufacturing Technology	3	1	0	30	20	50	100	150	4	
5	TOE	Open Elective*	3	1	0	30	20	50	100	150	4	
PRACTICAL / TRAINING / PROJECT												
1	PPP-701	Polymer Characterization Lab	0	0	3	-	50	25	25	50	3	
2	PPP-702	Minor Project	0	0	2	-	50	50	50	-	2	
3	PPP-703	Industrial Training Report Presentation	0	0	2	-	50	50	25	-	-	
4	GP-301	General Proficiency (NSS/NSS/Sports/Cultural)	-	-	-	-	-	50	-	50	-	
		Total	15	5	7	-	-	-	-	1000	27	
EIGHTH SEMESTER												
THEORY COURSES												
1	TME-020	Total Quality Management	3	1	0	30	20	50	100	150	4	
2	TPP-801	Surface Coating Technology	3	1	0	30	20	50	100	150	4	
3	TPP-803	Polyurethane Technology	3	1	0	30	20	50	100	150	4	
4	TPP-804	Technology of Elastomers	3	1	0	30	20	50	100	150	4	
PRACTICAL / TRAINING / PROJECT												
1	PPP-801	Project Lab	0	0	3	-	100	100	200	300	4	
2	PPP-802	Seminar	0	0	2	-	50	50	-	50	2	
3	GP-301	General Proficiency (NSS/NSS/Sports/Cultural)	-	-	-	-	-	50	-	50	-	
		Total	12	4	5	-	-	-	-	1000	22	