

**FACULTY OF SCIENCE AND TECHNOLOGY**  
**Revised Syllabus Structure w.e.f. 2017-18**  
**Second Year B. Tech. (Plastic and Polymer Engineering)**

Course Code	SEMESTER - III	Contact Hrs / Week				Examination Scheme						
	Subject	L	T	P	Total	CT	TH	TW	P	Total	Credits	Duration of Theory Exam
BSH201	Engineering Mathematics-III	3	1	-	4	20	80	-	-	100	4	3 Hrs
PPE202	Organic Chemistry	4	-	-	4	20	80	-	-	100	4	3 Hrs
PPE203	Introduction to Polymer Engineering	3	1	-	4	20	80	-	-	100	4	3 Hrs
PPE204	Polymer Testing	4	-	-	4	20	80	-	-	100	4	3 Hrs
PPE205	Materials Engineering	4	-	-	4	20	80	-	-	100	4	3 Hrs
PPE206	Mechanical Operation	2	-	-	2	10	40	-	-	50	2	2 Hrs
PPE221	Lab I: Organic Chemistry	-	-	2	2	-	-	25	25	50	1	
PPE222	Lab II: Analysis of Polymer	-	-	2	2	-	-	25	25	50	1	
PPE223	Lab III: Polymer Testing	-	-	2	2	-	-	25	25	50	1	
PPE224	Lab IV: Mechanical Operation	-	-	2	2	-	-	50	-	50	1	
BSH225	Lab V: Development of Skills-II	-	-	2	2	-	-	50	-	50	1	
	<b>Total of semester-III</b>	<b>20</b>	<b>2</b>	<b>10</b>	<b>32</b>	<b>110</b>	<b>440</b>	<b>175</b>	<b>75</b>	<b>800</b>	<b>27</b>	
Course Code	SEMESTER - IV	Contact Hrs / Week				Examination Scheme						
	Subject	L	T	P	Total	CT	TH	TW	P	Total	Credits	Duration of Theory Exam
BSH251A	Engineering Mathematics-IV	3	1	-	4	20	80	-	-	100	4	3 Hrs
PPE252	Process Calculations	4	-	-	4	20	80	-	-	100	4	3 Hrs
PPE253	Physical Chemistry of Polymers	4	-	-	4	20	80	-	-	100	4	3 Hrs
PPE254	Polymer Synthesis and Manufacturing	3	1	-	4	20	80	-	-	100	4	3 Hrs
PPE291-293	Programme Elective-I	4	-	-	4	20	80	-	-	100	4	3 Hrs
PPE255	Fluid Mechanics	2	-	-	2	10	40	-	-	50	2	2 Hrs
PPE271	Lab VI: Physical Chemistry of Polymers	-	-	2	2	-	-	25	25	50	1	
PPE272	Lab VII: Polymer Synthesis-I	-	-	4	4	-	-	50	50	100	2	
PPE273	Lab VIII: Fluid Mechanics	-	-	2	2	-	-	25	25	50	1	
PPE274	Lab IX: DOS-III Design Lab-I (CAD)	-	-	2	2	-	-	50	-	50	1	
	<b>Total of semester-IV</b>	<b>20</b>	<b>2</b>	<b>10</b>	<b>32</b>	<b>110</b>	<b>440</b>	<b>150</b>	<b>100</b>	<b>800</b>	<b>27</b>	
	<b>Grand Total of III &amp; IV</b>	<b>40</b>	<b>4</b>	<b>20</b>	<b>64</b>	<b>220</b>	<b>880</b>	<b>325</b>	<b>175</b>	<b>1600</b>	<b>54</b>	

L: Lecture hours per week

T: Tutorial hours per week

P: Practical hours per week

CT: Class Test

TH: University Theory Examination

TW: Teachers Assessment

P: Practical/Oral Examination

**Programme Elective-I**

PPE291: Specialty Polymers

PPE292: Fibre Technology

PPE293: Biopolymers