#### **Semester wise Course Structure**

## M. Tech. Chemical Technology - Paint Technology (Applicable from Session 2020-2021 for new entrants)

#### Year I, Semester I

(A Stream Only for students having B.Tech in Paint Technology background)
(B Stream Only for students having B.Tech in other than Paint Technology background)
(C Stream Only for students of M.Sc (Chemistry/Applied Chemistry /Industrial Chemistry) background)

	Stream A												
Sr.	Course	Subject	Course Title	Credits	Periods			Session	ESE	Total			
No.	Type	Code		Credits	L	Т	Р	MSE	TA	Lab	Total		Marks
1.	PCC	TPT 551	Advances in Chemistry and Technology of Film Formers	5	3	1	2	15	20	15	50	50	100
2.	PCC	TPT 553	Pigmentation of Surface Coatings	4	3	1	0	30	20	-	50	50	100
3.	PCC	TPT 555	Advanced Modelling and Simulation of Chemical Engineering Systems	4	3	1	0	30	20	1	50	50	100
4.	PEC	TPT 557	Advanced Chemical Reaction Engineering	4	3	1	0	30	20	1	50	50	100
Total	•			17	12	4	2				200	200	400

#### OR

	Stream B/C												
Sr.	Course	Subject	Course Title	Credits	Periods		Sessional Marks				ESE	Total	
No.	Type	Code			L	Т	Р	MSE	TA	Lab	Total	ESE	Marks
1.	PCC	TPT 559	Technology of Resins and Polymers	4	3	1	0	30	20	-	50	50	100
2.	PCC	TPT 561	Chemistry and Technology of Pigments	5	3	1	2	15	20	15	50	50	100
3.	PEC	TPT 563	Technology of Surface Coatings	4	3	1	0	30	20	-	50	50	100
4.	PCC	TPT 565	Industrial Stichiometery	4	3	1	0	30	20	-	50	50	100
5.	*MC (Non Credit)	BMA 551	Engineering Mathematics	2	2	0	0	-	1	1	1	1	-
Total	•		•	17	12	4	2				200	200	400

<sup>\*</sup>Only for students of Non-mathematics background at graduation level

#### **Semester wise Course Structure**

# M. Tech. Chemical Technology - Paint Technology (Applicable from Session 2020-2021 for new entrants)

## Year I, Semester II

Sr.	Course	Subject	Course Title	Credits	Pe	riod	ls	Sessional Marks					Total
No.	Type	Code			L	Н	Р	MSE	TA	Lab	Total		Marks
1.	PCC	TPT 552	Modern Evaluation Techniques of Surface Coatings	4	3	1	0	30	20	ı	50	50	100
2.	PCC	TPT 554	Modern Manufacturing Techniques of Surface Coatings	4	3	1	0	30	20	ı	50	50	100
3.	PCC	TPT 556	High Performance Coatings	5	3	1	2	15	20	15	50	50	100
4.	PEC	TPT 558	Advances in Printing Inks  Advances in Packaging  Technology	4	3	1	0	30	20	-	50	50	100
5.	MC (Non Credit)	TPT 562	Audit Course Critical review of research publication on one relevant Topic		0	2	0						
6.	MC (Non Credit)	TPT 564	Audit Course Research Methodology and IPR		0	1	0						
Total				17	12	4	2				200	200	400

#### **Semester wise Course Structure**

# M. Tech. Chemical Technology - Paint Technology (Applicable from Session 2021-2022)

### Year II, Semester III

SI.	Course	Subject	Course Title	Credits	F	erio	ds	Sessional Marks				ESE	Total
No.	Type	Code											Marks
					L	Т	Р	MSE	TA	Lab	Total		
1.	PCC	TPT 651	Technology of Surfactants & Coating Additives	4	3	1	0	30	20	-	50	50	100
2.	PEC	TPT 653	Advances in Surface Treatment & Coating application OR	4	3	1	0	30	20	-	50	50	100
		TPT 655	Eco-friendly & Specialty Coatings										
3.	MC (Non Credit)	TPT 661	Audit Course Critical Review of Research Publications on one Relevant Topic		0	2	0						
4.	MC (Non Credit)	TPT 663	Audit Course Research Methodology and IPR		2	1	0						
5.	Disserta tion/ Project	TPT 695	*Dissertation/Project	2	0	0	4	-	50	-	50	50	100
6.	Seminar	TPT 697	Seminar	4	0	0	8	-	50	-	50	50	100
		T	otal	14	8	5	12				200	200	400

<sup>\*</sup>Dissertation to be continued in fourth semester.

#### **Semester wise Course Structure**

# M. Tech. Chemical Technology - Paint Technology (Applicable from Session 2021-2022)

## Year II, Semester IV

SI.	Course Type	Subject	Course Title	Credits	Periods				Session	ESE	Total		
No.		Code											Marks
					L	Н	Р	MSE	TA	Lab	Total		
1.	Dissertation	TPT 698	Dissertation/Project	12	0	0	24	-	50	-	50	50	100
	/ Project												
		Total		12	0	0	24		50		50	50	100