

HARCOURT BULTER TECHNICAL UNIVERSITY KANPUR
SCHOOL OF CHEMICAL TECHNOLOGY
DEPARTMENT OF CHEMICAL TECHNOLOGY - PAINT TECHNOLOGY

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. No.	Course Type	Subject Code	Course Title	Credits	Periods			Sessional Marks				ESE	Total Marks
					L	T	P	MSE	TA	Lab	Total		
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	-	50	50	100
4.	PEC	TPT 557	Advanced Chemical Reaction Engineering	4	3	1	0	30	20	-	50	50	100
Total				17	12	4	2				200	200	400

OR

Stream B/C													
Sr. No.	Course Type	Subject Code	Course Title	Credits	Periods			Sessional Marks				ESE	Total Marks
					L	T	P	MSE	TA	Lab	Total		
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 Stichiometry	4	3	1	0	30	20	-	50	50	100
5.	*MC (Non Credit)	BMA 551	Engineering Mathematics	2	2	0	0	-	-	-	-	-	-
Total				17	12	4	2				200	200	400

*Only for students of Non-mathematics background at graduation level

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M. Tech. Chemical Technology - Paint Technology
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Year I, Semester II

Sr. No.	Course Type	Subject Code	Course Title	Credits	Periods			Sessional Marks				ESE	Total Marks
					L	T	P	MSE	TA	Lab	Total		
1.	PCC	TPT 552	Modern Evaluation Techniques of Surface Coatings	4	3	1	0	30	20	-	50	50	100
2.	PCC	TPT 554	Modern Manufacturing Techniques of Surface Coatings	4	3	1	0	30	20	-	50	50	100
3.	PCC	TPT 556	High Performance Coatings	5	3	1	2	15	20	15	50	50	100
4.	PEC	TPT 558 TPT 560	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

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M. Tech. Chemical Technology - Paint Technology
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Year II, Semester III

Sl. No.	Course Type	Subject Code	Course Title	Credits	Periods			Sessional Marks				ESE	Total Marks
					L	T	P	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 TPT 655	Advances in Surface Treatment & Coating application OR Eco-friendly & Specialty Coatings	4	3	1	0	30	20	-	50	50	100
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.	Dissertation/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
Total				14	8	5	12				200	200	400

*Dissertation to be continued in fourth semester.

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Year II, Semester IV

Sl. No.	Course Type	Subject Code	Course Title	Credits	Periods			Sessional Marks				ESE	Total Marks
					L	T	P	MSE	TA	Lab	Total		
1.	Dissertation / Project	TPT 698	Dissertation/Project	12	0	0	24	-	50	-	50	50	100
		Total		12	0	0	24		50		50	50	100