

**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)

<b>Stream A</b>													
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
<b>Total</b>				<b>17</b>	<b>12</b>	<b>4</b>	<b>2</b>				<b>200</b>	<b>200</b>	<b>400</b>

**OR**

<b>Stream B/C</b>													
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	-	-	-	-	-	-
<b>Total</b>				<b>17</b>	<b>12</b>	<b>4</b>	<b>2</b>				<b>200</b>	<b>200</b>	<b>400</b>

\*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	Advances in Printing Inks	4	3	1	0	30	20	-	50	50	100
		TPT 560	Advances in Packaging Technology										
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						
<b>Total</b>				<b>17</b>	<b>12</b>	<b>4</b>	<b>2</b>				<b>200</b>	<b>200</b>	<b>400</b>

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

**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 OR 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	<b>Audit Course</b> Critical Review of Research Publications on one Relevant Topic		0	2	0						
4.	MC (Non Credit)	TPT 663	<b>Audit Course</b> 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
<b>Total</b>				<b>14</b>	<b>8</b>	<b>5</b>	<b>12</b>				<b>200</b>	<b>200</b>	<b>400</b>

\*Dissertation to be continued in fourth semester.

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

**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
		<b>Total</b>		<b>12</b>	<b>0</b>	<b>0</b>	<b>24</b>		<b>50</b>		<b>50</b>	<b>50</b>	<b>100</b>