

Master of Technology in Textile Chemical Processing
Department of Textile Technology

The Semester -wise Scheme

Sem.	Courses (Number, abbreviated title, L-T-P, credits)							Lecture Courses	Contact h/week				Credits
	L	T	P	Total									
I	TXL712 Polymer & Fibre Physics (3-0-0) 3	TXL753 Advanced Textile Printing Technology (2-0-0) 2	TXL749 Theory and Practice of Dyeing (3-0-0) 3	TXL747 Colour Science (3-0-0) 3	TXP751 Characterization of Chemicals and Finished Textiles Lab (0-0-2) 1	TXR752 Professional Practices (0-0-2) 1	TXP749 Textile Coloration Lab (0-0-2) 1	4	11	0	6	17	14
II	TXL748 Advances in Finishing of Textiles (3-0-0) 3	TXL754 Sustainable Chemical Processing of Textiles (2-0-0) 2	TXL783 Design of Experiments and Statistical Techniques (3-0-0) 3	TXP748 Textile Preparation and Finishing Lab (0-0-2) 1	PE-1 (3-0-0) 3	PE-2 (3-0-3) 3		5	14	0	2	16	15
Summer	TXR800: Industrial Summer Training												
III	TXD805 Maj Proj Part 1 (TCP) (0-0-12) 6			TXS751 Research Seminar (0-0-2) 1	PE-3* (3-0-0) 3	PE-4 (3-0-0) 3		2	6	0	14	20	13
IV	TXD806 Maj Proj Part 2 (TCP) (0-0-24) 12							0	0	0	24	24	12

*From TCP PE basket

Total- 54

The outlines of the curriculum for such a program are given below:

The overall credit structure for the Proposed scheme:

Category	PC	PE	Project	Total
Credits	24	12	18	54

(PC – program core, PE- program elective)

List of core courses with structure

Course name	Structure
TXL712: Polymer and Fibre Physics	(3-0-0) 3
TXL747: Colour Science	(3-0-0) 3
TXL748: Advances in Finishing of Textiles	(3-0-0) 3
TXL749: Theory and Practice of Dyeing	(3-0-0) 3
TXL753: Advanced Textile Printing Technologies	(2-0-0) 2
TXL754: Sustainable Chemical Processing of Textiles	(2-0-0) 2
TXL783: Design of Experiments and Statistical Techniques	(3-0-0) 3
TXP748: Textile Preparation and Finishing Lab	(0-0-2) 1
TXP749: Textile Coloration Lab	(0-0-2) 1
TXP751: Characterization and Evaluation of dyed and finished textiles Lab	(0-0-2) 1
TXR752: Professional Practices	(0-1-0) 1
TXS751: Research Seminar	(0-1-0) 1
TXD805: Major Project Part I	(0-0-12) 6
TXD806: Major Project Part II	(0-0-24) 12
TXT800: Industrial Summer Training	Non-credit

List of elective courses

TXD812 Mini Project (TCP) 3 Credits (0-0-6)
TXL711 Polymer and Fibre Chemistry 3 credits (3-0-0)
TXL713 Technology of Melt Spun Fibres 4 Credit (3 1 0)
TXL714 Advanced Materials Characterization Techniques 1 Credit (1 0 0)
TXL715 Technology of Solution Spun Fibres 3 Credits (3 0 0) 3
TXL719 Functional and Smart Textiles 3 credits (3-0-0)
TXL724 Textured Yarn Technology 3 credits (3-0-0)
TXL740 Science and Application of Nanotechnology in Textiles 3 credits (3-0-0)
TXL750 Science of Clothing Comfort 3 credits (3-0-0)
TXL751 Apparel Engineering and Quality Control 3 credits (2-0-2)
TXL752 Design of Functional Clothing 3 credits (3-0-0)
TXL755 Textile Processing Machines: Automation and Control 3 credits (3-0-0)
TXL756 Textile Auxiliaries 3 credits (3-0-0)

TXL766 Design and Manuf. of Textile Structural Composites 3 credits (3-0-0)
TXL773 Medical Textiles 3 credits (3-0-0)
TXL775 Technical Textiles 3 credits (3-0-0)
TXL777 Product Development 3 credits (3-0-0)
TXL781 Project Appraisal and Finance 3 credits (2-1-0)
TXL782 Production and Operations Management in Textile Industry 3 credits (3-0-0)
TXL784 Supply Chain Management in Textile Industry 3 credits (3-0-0)
TXP711 Polymer and Fibre Chemistry Laboratory 1 Credit (0 0 2)
TXP712 Polymer and Fibre Physics Laboratory 1 Credit (0 0 2)
TXP716 Fibre Production and Post Spinning Operation Laboratory 2 Credits (0 0 4)
TXP761 Evaluation of Textile Materials 2 credits (0-0-4)
TXS811 Independent Study (TCP) 3 Credits (0-3-0)
TXV707 Special Module in Textile Chemical Processing (TCP) 1 credit (1-0-0)

In addition, some courses from other departments will be PE for this program. The list is given below:

MSL760: Marketing Management, 3 credits (2-0-2)
MSL802: Management of Intellectual Property Rights, 3 credits (3-0-0)
MSL816: Total Quality Management, 3 credits (2-0-2)

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The overall credit structure

Category	PC	PE	Total
Credits	42	12	54

Program core

TXD805	Major project part-I (TXC)	0	0	12	6	TXL714	Advanced Materials Characterization Techniques	1	0	0	1
TXD806	Major project part-II (TXC)	0	0	24	12	TXL715	Technology of Solution Spun Fibres	3	0	0	3
TXL712	Polymer and Fibre Physics	3	0	0	3	TXL719	Functional and Smart Textiles	3	0	0	3
TXL747	Colour Science	3	0	0	3	TXL724	Textured Yarn Technology	3	0	0	3
TXL748	Advances in Finishing of Textiles	3	0	0	3	TXL740	Science and Application of Nanotechnology in Textiles	3	0	0	3
TXL749	Theory and Practice of Dyeing	3	0	0	3	TXL750	Science of Clothing Comfort	3	0	0	3
TXL753	Advanced Textile Printing Technology	2	0	0	2	TXL751	Apparel Engineering and Quality Control	2	0	2	3
TXL754	Sustainable Chemical Processing of Textiles	2	0	0	2	TXL752	Design of Functional Clothing	3	0	0	3
TXL783	Design of Experiments and Statistical Techniques	3	0	0	3	TXL755	Textile Processing Machines: Automation and Control*	3	0	0	3
TXP748	Textile Preparation and Finishing Lab	0	0	2	1	TXL756	Textile Auxiliaries*	3	0	0	3
TXP749	Textile Coloration Lab	0	0	2	1	TXL766	Design and Manuf. of Textile Structural Composites	3	0	0	3
TXP751	Characterization and Evaluation of dyed and finished textiles Lab	0	0	2	1	TXL773	Medical Textiles	3	0	0	3
TXS751	Research Seminar	0	0	2	1	TXL775	Technical Textiles	3	0	0	3
TXR752	Professional Practices	0	0	2	1	TXL777	Product Development	3	0	0	3
TXT800	Industrial Summer Training	Non credit				TXL781	Project Appraisal and Finance	2	1	0	3
					42	TXL782	Production and Operations Management in Textile Industry	3	0	0	3

Program electives

MSL760	Marketing Management	2	0	2	3	TXL784	Supply Chain Management in Textile Industry	3	0	0	3
						TXP711	Polymer and Fibre Chemistry	0	2	0	1

MSL802	Management of Intellectual Property Rights	3	0	0	3		Laboratory				
MSL816	Total Quality Management	2	0	2	3	TXP712	Polymer and Fibre Physics Laboratory	0	0	2	1
TXD812	Mini Projects (TCP)	0	0	6	3	TXP716	Fibre Production and Post Spinning Operation Laboratory	0	0	4	2
TXL711	Polymer and Fibre Chemistry	3	0	0	3	TXP761	Evaluation of Textile Materials	0	0	4	2
TXL713	Technology of Melt Spun Fibres	3	1	0	4	TXS811	Independent Study	0	3	0	3
						TXV707	Special Module - Textile Chemical Processing-1	1	0	0	1

* TCP PE Basket