

13.Courses of Study and Scheme of Assessment M.Tech Textile Technology

(2021 REGULATIONS)
(Minimum No. of credits to be earned: 70*)

Course Code	Course Title	Hours/Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
I SEMESTER									
21TT01	Statistical Techniques and Design of Experiments	3	1	0	4	50	50	100	PC
21TT02	Structure and Properties of Fibres	3	1	0	4	50	50	100	PC
21TT03	Theory of Yarn and Fabric Manufacture	3	1	0	4	50	50	100	PC
21TT04	Colouration and Finishing Technology	3	0	0	3	50	50	100	PC
21TT05	Quality Analysis of Textiles and Clothing	3	0	0	3	50	50	100	PC
21TT06	Research Methodology and IPR	2	0	0	2	50	50	100	RMC
21TT72	Audit Course – I	2	0	0	Grade	100	0	100	MC
21TT51	Statistical Analysis and Optimization Laboratory	0	0	4	2	50	50	100	PC
21TT52	Colouration and Finishing laboratory	0	0	4	2	50	50	100	PC
Total 30 hrs		19	3	8	24	500	400	900	
II SEMESTER									
21TT07	Advances in Fabric Formation	3	0	0	3	50	50	100	PC
21TT08	Functional and Smart Textiles	3	1	0	4	50	50	100	PC
21TT_	Professional Elective – I	3	0	0	3	50	50	100	PE
21TT_	Professional Elective – II	3	0	0	3	50	50	100	PE
21TT_	Professional Elective – III	3	0	0	3	50	50	100	PE
21TT82	Audit Course – II	2	0	0	Grade	100	0	100	MC
21TT61	Yarn and Fabric Property Development and Characterization Laboratory	0	0	4	2	50	50	100	PC
21TT62	Industrial Textiles Product Development and Quality Evaluation Laboratory	0	0	4	2	50	50	100	PC
21TT63	Industrial Visit and Technical Seminar	0	0	4	2	50	50	100	EEC
Total 30 hrs		17	1	12	22	500	400	900	
III SEMESTER									
21TT_	Professional Elective – IV	3	0	0	3	50	50	100	PE
21TT_	Open Elective	3	0	0	3	50	50	100	OE
21TT71	Project Work I	0	0	12	6	50	50	100	EEC
Total 18 hrs		6	0	12	12	150	150	300	
IV SEMESTER									
21TT81	Project Work II	0	0	24	12	50	50	100	EEC
Total 24 hrs		0	0	24	12	50	50	100	
PROFESSIONAL ELECTIVE THEORY COURSES (Four to be opted)									
FIBRE TECHNOLOGY									
21TT11	Characterization of Textile Polymers	3	0	0	3	50	50	100	PE
21TT12	Nanotechnology in Textiles	3	0	0	3	50	50	100	PE
21TT13	High Performance and Speciality Fibres	3	0	0	3	50	50	100	PE
YARN TECHNOLOGY									
21TT14	Alternate Spinning Systems	3	0	0	3	50	50	100	PE
21TT15	Process and Quality Control in Spinning and Weaving	3	0	0	3	50	50	100	PE
21TT16	Theory of Yarn and Fabric Structures	3	0	0	3	50	50	100	PE
FABRIC TECHNOLOGY									
21TT17	Speciality Textiles	3	0	0	3	50	50	100	PE
21TT18	Nonwovens	3	0	0	3	50	50	100	PE
CHEMICAL PROCESSING									

21TT19	Surface Modification of Textiles	3	0	0	3	50	50	100	PE
21TT20	Green Processing of Textiles	3	0	0	3	50	50	100	PE
21TT21	Management of Colour in Textiles	3	0	0	3	50	50	100	PE
21TT22	Theory of Colouration	3	0	0	3	50	50	100	PE
21TT23	Functional Finishes	3	0	0	3	50	50	100	PE
21TT24	Chemical Processing of Synthetic Textiles	3	0	0	3	50	50	100	PE
21TT25	Printing Technology	3	0	0	3	50	50	100	PE
21TT26	Textile Effluent Treatments	3	0	0	3	50	50	100	PE
APPAREL TECHNOLOGY									
21TT27	Fashion Design	3	0	0	3	50	50	100	PE
21TT28	Clothing Comfort	3	0	0	3	50	50	100	PE
21TT29	Textile Marketing and Merchandising	3	0	0	3	50	50	100	PE
21TT30	Home Textiles	3	0	0	3	50	50	100	PE
TECHNICAL TEXTILES									
21TT31	Textile Composites	3	0	0	3	50	50	100	PE
21TT32	Filters and Filtration Textiles	3	0	0	3	50	50	100	PE
21TT33	Biomechanical Engineering of Functional Textiles	3	0	0	3	50	50	100	PE
21TT34	Coated and Laminated Textiles	3	0	0	3	50	50	100	PE
21TT35	Textile Preforms and Prepregs	3	0	0	3	50	50	100	PE
21TT36	Electroactive Textiles	3	0	0	3	50	50	100	PE
21TT37	Medical Textiles	3	0	0	3	50	50	100	PE
21TT38	Acoustics and Textile Sound Absorbers	3	0	0	3	50	50	100	PE
21TT39	Smart Materials for Intelligent Textiles	3	0	0	3	50	50	100	PE
21TT40	Industrial Textiles	3	0	0	3	50	50	100	PE
21TT41	Circular Design and Sustainability in Textiles	3	0	0	3	50	50	100	PE
TEXTILE MANAGEMENT									
21TT42	Financial Management	3	0	0	3	50	50	100	PE
21TT43	Industrial Engineering	3	0	0	3	50	50	100	PE
21TT44	Project Formulation and Appraisal	3	0	0	3	50	50	100	PE
21TT45	Control Systems and Automation in Textile Engineering	3	0	0	3	50	50	100	PE
21TT46	High Performance Automotive Textiles	3	0	0	3	50	50	100	PE
OPEN ELECTIVE COURSES (One to be opted)									
21TT91	Quality Evaluation of Industrial Textile Products	3	0	0	3	50	50	100	OE

* Indicated is the minimum number of credits to be earned by a student.

CAT – Category; PC – Professional Core; PE - Professional Elective; RMC - Research Methodology and IPR; EEC – Employability Enhancement Course; MC - Mandatory Course; Grade – Completed / Not Completed; OE – Open Elective

ONE CREDIT COURSES

21TK01	Geosynthetics
21TK02	Fibre reinforced concrete
21TK03	IE techniques
21TK04	Textile and apparel costing
21TK05	Lean manufacturing for textile and apparel industry
21TK06	Business acumen
21TK07	Oil Spill Clean-up Pads
21TK08	Cold Weather Protective Textiles
21TK09	Fabric Sourcing
21TK10	Speciality Fabric Sourcing
21TK11	Industry 4.0