

2008-2009

M.Tech TT/TC

SCHEME OF STUDIES FOR THE FOUR SEMESTERS

MASTER OF TECHNOLOGY (M.TECH) (TT/TC) DEGREE COURSE

M.TECH (FIRST SEMESTER)

<u>Index No.</u>	<u>Title of Papers</u>	<u>Hours per week</u>
TT 501	Developments in Fibre Production	4
TT 503	Structure and Properties of Fibres	4
MA 505	Advanced Mathematics & Computer Programming	4

Any one group of the Electives :

Group A

TT 507	Theory and Design of Spinning Machinery	4
TT 509	Modern Technology of Fabric Production	4

Group B

TC 507	Chemistry of Dyes	4
TC 509	Advances in Theory of Dyeing	4

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SECOND SEMESTER

MA 502	Operations Research & Design of Experiments	4
EN 504	Instrumentation and Automatic Control	4
TT 506	Developments in Texturing	4



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Any one group of the Electives :

TT 508	Theory and Design of Weaving Machinery	4
TT 510	Structural Engg of Fibre Assemblies	4
TT 512	Unconventional Spinning Systems	4

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SCHEME OF EXAMINATION FOR THE FOUR SEMESTERS

MASTER OF TECHNOLOGY (M.TECH) (TT/TC) COURSE

FIRST SEMESTER

Index No.	Title of Paper	No. of Papers	Time (Hrs)	Marks of Paper	Marks of C/Work	Total Marks
TT 501	Developments in Fibre Production	1	3	100	50	150
TT 503	Structure & Properties of Fibres	1	3	100	50	150
MA 505	Advance Mathematics & Computer Programming	1	3	100	50	150
Any one group of the Electives						
Group A						
TT 507	Theory & Design of Spinning Machinery	1	3	100	50	150
TT 509	Modern Technology of Fabric Production	1	3	100	50	150
Group B						
TC 507	Chemistry of Dyes	1	3	100	50	150
TC 509	Advance in Theory of Dyeing	1	3	100	50	150



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SCHEME OF EXAMINATION

THIRD SEMESTER

Index No.	Theory Papers	No. of papers	Time (Hrs)	Marks of Papers	Marks of C/Work	Total Marks
TT 601	Design of Experiments & Quality Control	1	3	100	50	150
TT 603	Technical Textiles	1	3	100	50	150
TT 605	Mid-term Evaluation of Project / Seminar	1			100	100
FOURTH SEMESRTER						
TT/TC 602	Dissertation & Viva-Voce	1	2	500	-	500

SYLLABUS – Third Semester

TT 601 Design of Experiments & Quality Control 3(150)

Section I (Two questions)

Regression and Correlation:

Significance of the study of correlation, Karl Pearson's coefficient of correlation, Rank correlation coefficient, Method of least squares, Regression Lines, Regression equations of Y and X, Least square parabola, Partial correlation coefficients (Three variables only)

Multiple correlation and Regression.

Section II (Two questions)

Statistical Quality Control:

Meaning of Statistical Quality Control, Control charts, namely, X,R,C and p charts. Benefits and limitations of SQC, acceptance sampling, selection of sampling plan. Construction of an OC curve.

Section III (4 questions)




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