

RAJASTHAN TECHNICAL UNIVERSITY, KOTA



SYLLABUS
&
SCHEME OF EXAMINATION

B. TECH. (Textile Engineering)

Effective from session: 2008 - 2009

III SEMESTER (Textile Engineering)

Sub. Code	Name of Subject	Teaching Periods			Duration of Exams (Hours)	Maximum Marks Allocation			
		L	T	P		Internal	End Term	Practical	Total
3TE1	Mechanisms of Yarn Manufacturing – I	3	-	-	3	20	80	-	100
3TE2	Mechanisms of Fabric Manufacturing – I	3	-	-	3	20	80	-	100
3TE3	Textile Raw Material	3	-	-	3	20	80	-	100
3TE4	Engineering Manufacturing Processes	3	-	-	3	20	80	-	100
3TE5	Applied Electronics	3	-	-	3	20	80	-	100
3TE6.1	Elective Applied Statistics	3	-	-	3	20	80	-	100
3TE6.2	Nano Technology								
Total		18	-	-	-	120	480	-	600
3TE7	Spinning Workshop – I	-	-	4	3	60	-	40	100
3TE8	Weaving Work Shop – I	-	-	4	3	60	-	40	100
3TE9	Fiber Microscopy & Identification Lab	-	-	2	3	30	-	20	50
3TE10	Engineering Manufacturing Workshop	-	-	2	3	30	-	20	50
3TE11	Applied Electronics Lab	-	-	2	3	30	-	20	50
3TEDC	Discipline & Extra Curricular Activities	-	-	-	-	50	-	-	50
Total		-	-	14	-	260	-	140	400
Grand Total		18	-	14	-	380	480	140	1000

IV SEMESTER (Textile Engineering)

Sub. Code	Name of Subject	Teaching Periods			Duration of Exams (Hours)	Maximum Marks Allocation			
		L	T	P		Internal	End Term	Practical	Total
4TE1	Mechanisms of Yarn Manufacturing – II	3	-	-	3	20	80	-	100
4TE2	Mechanisms of Fabric Manufacturing – II	3	-	-	3	20	80	-	100
4TE3	Fabric Designing	3	-	-	3	20	80	-	100
4TE4	Applied Mechanics	3	-	-	3	20	80	-	100
4TE5	Microprocessor Applications in Textiles	3	-	-	3	20	80	-	100
4TE6.1	Elective Numerical Analysis	3	-	-	3	20	80	-	100
4TE6.2	Industrial Management								
Total		18	-	-	-	120	480	-	600
4TE7	Spinning Workshop – II	-	-	4	3	60	-	40	100
4TE8	Weaving Workshop – II	-	-	4	3	60	-	40	100
4TE9	Textile Design Lab.	-	-	2	3	30	-	20	50
4TE10	Applied Mechanics Lab	-	-	2	3	30	-	20	50
4TE11	Microprocessor Application In Textiles Lab	-	-	2	3	30	-	20	50
4TEDC	Discipline & Extra Curricular Activities	-	-	-	-	50	-	-	50
Total		-	-	14	-	260	-	140	400
Grand Total		18	-	14	-	380	480	140	1000

V SEMESTER (Textile Engineering)

Sub. Code	Name of Subject	Teaching Periods			Duration of Exams (Hours)	Maximum Marks Allocation			
		L	T	P		Internal	End Term	Practical	Total
5TE1	Mechanisms of Yarn Manufacturing – III	3	-	-	3	20	80	-	100
5TE2	Mechanisms of Fabric Manufacturing – III	3	-	-	3	20	80	-	100
5TE3	Textile Chemical Processing – I	3	-	-	3	20	80	-	100
5TE4	Theory of Machines	3	-	-	3	20	80	-	100
5TE5	Textile Testing – I	3	-	-	3	20	80	-	100
5TE6.1	Elective Fiber Science	3	-	-	3	20	80	-	100
5TE6.2	Materials & Human Resource Management								
5TE6.3	Optimization Techniques								
Total		18		-	-	120	480	-	600
5TE7	Spinning Workshop – III	-	-	4	3	60	-	40	100
5TE8	Weaving Workshop – III	-	-	4	3	60	-	40	100
5TE9	Textile Testing Lab – I	-	-	2	3	30	-	20	50
5TE10	Textile Chemistry Lab – I	-	-	2	3	30	-	20	50
5TE11	Theory of Machine Lab	-	-	2	3	30	-	20	50
5TEDC	Discipline & Extra Curricular Activities	-	-	-	-	50	-	-	50
Total		-	-	14	-	260	-	140	400
Grand Total		18	-	14	-	380	480	140	1000

VI SEMESTER (Textile Engineering)

Sub. Code	Name of Subject	Teaching Periods			Duration of Exams (Hours)	Maximum Marks Allocation			
		L	T	P		Internal	End Term	Practical	Total
6TE1	Mechanisms of Yarn Manufacturing – IV	3	-	-	3	20	80	-	100
6TE2	Mechanisms of Fabric Manufacturing – IV	3	-	-	3	20	80	-	100
6TE3	Textile Testing – II	3	-	-	3	20	80	-	100
6TE4	Machine Design	3	-	-	3	20	80	-	100
6TE5	Textile Chemical Processing – II	3	-	-	3	20	80	-	100
6TE6.1	Elective Knitting Technology	3	-	-	3	20	80	-	100
6TE6.2	Technical Textiles								
6TE6.3	Production & Operation Management								
Total		18	-	-	-	120	480	-	600
6TE7	Spinning Workshop – IV	-	-	4	3	60	-	40	100
6TE8	Weaving Workshop – IV	-	-	4	3	60	-	40	100
6TE9	Textile Testing Lab – II	-	-	2	3	30	-	20	50
6TE10	Textile Chemistry Lab – II	-	-	2	3	30	-	20	50
6TE11	Machine Design Lab	-	-	2	3	30	-	20	50
6TEDC	Discipline & Extra Curricular Activities	-	-	-	-	50	-	-	50
Total		-	-	14	-	290	-	140	400
Grand Total		18	-	14	-	410	480	140	1000

VII SEMESTER (Textile Engineering)

Sub. Code	Name of Subject	Teaching Periods			Duration of Exams (Hours)	Maximum Marks Allocation			
		L	T	P		Internal / Term Work	End Sem Exam	Practical	Total
7TE1	Modern Spinning Machines	3	-	-	3	20	80	-	100
7TE2	Modern Weaving Machines	3	-	-	3	20	80	-	100
7TE3	Engineering of Textile Structures	3	-	-	3	20	80	-	100
7TE4	Information Technology in Textiles	3	-	-	3	20	80	-	100
7TE5	Industrial Engineering & Quality Management	3	-	-	3	20	80	-	100
7TE6.1 7TE6.2	Elective Complex Textiles Advance Manufacturing Processes	3	-	-	3	20	80	-	100
Total		18	-	-		120	480	-	600
7TE7	Spinning Workshop – V	-	-	4	3	30	-	20	50
7TE8	Weaving Workshop – V	-	-	4	3	30	-	20	50
7TE9	Information Technology Lab	-	-	2	3	60	-	40	100
7TE10	Project Stage - I	-	-	2	-	50	-	-	50
7TE11	Practical Training and Industrial Visit	-	-	2	-	60	-	40	100
7TEDC	Discipline & Extra Curricular Activities	-	-	-	-	50	-	-	50
Total		-	-	14	-	260	-	140	400
Grand Total		18	-	14	-	380	480	140	1000

VIII SEMESTER (Textile Engineering)

Sub. Code	Name of Subject	Teaching Periods			Duration of Exams (Hours)	Maximum Marks Allocation			
		L	T	P		Internal / Term Work	End Sem.	Practical	Total
8TE1	Design of Textile Machines	3	-	-	3	20	80	-	100
8TE2	Mill Organization, Costing & Economics	3	-	-	3	20	80	-	100
8TE3	Engineering of Textile Structures - II	3	-	-	3	20	80	-	100
8TE4.1	Elective Entrepreneurship Venture & Textile Hazard								
8TE4.2	Computer Aided Design & Manufacturing		-	-	3	20	80	-	100
8TE4.3	Spinning Technology								
Total		12	-	-	-	80	320	-	400
8TE5	Spinning Workshop – VI	-	-	4	3	60	-	40	100
8TE6	Weaving Workshop – VI	-	-	4	3	60	-	40	100
8TE7	Computer Aided Textile Designing Lab	-	-	4	3	30	-	20	50
8TE8	Project Stage– II	-	-	4	-	120	-	80	200
8TE9	Seminar	-	-	2	-	60	-	40	100
8TEDC	Discipline & Extra Curricular Activities	-	-	-	-	50	-	-	50
Total		12	-	18	-	380	-	220	600
Grand Total		12	-	18	-	460	320	220	1000