

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly West Bengal University of Technology)
Syllabus for B. Tech in Textile Technology (TT)
(Applicable from the academic session 2018-2019)

Curriculum Structure
3RD SEMESTER

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Engineering Science	ES TT 301	Theory of Machines	2			2
2	Basic Science	BS BIO 301	Biology for Engineers	3			3
3	Professional Core 1	PC TT 301	Textile Fibre	3			3
4	Professional Core 2 Part 1	PC TT 302	Yarn Formation I	3			3
5	Professional Core 3 Part 1	PC TT 303	Textile Testing I	2			2
6	Humanities & Social Sciences including Management courses	HM 301	Economics for Engineers	3			3
Total Credit Theory							16
Practical							
1	Engineering Science	ES TT 391	Theory of Machines Lab			3	1.5
2	Professional Core Lab 1	PC TT 391	Textile Fibre Lab			3	1.5
3	Professional Core Lab 2-Part I	PC TT 392	Yarn Formation Lab I			3	1.5
4	Professional Core Lab 3-Part I	PC TT 393	Textile Testing Lab I			3	1.5
Total Credit Practical							6
Total for Third Semester				16		12	22

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4th SEMESTER

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Basic Science	BS TT 401	Mathematics III	3			3
2	Engineering Science	ES TT 401	Digital Electronics & Microprocessor	2			2
3	Professional Core 4 Part I	PC TT 401	Fabric Manufacturing I	3			3
4	Professional Core 5 Part 1	PC TT 402	Textile Chemical Processing I	3			3
5	Professional Elective 1 A/B	PE TT 401A/B	Instrumentation and control in Textile Processing/Mechanics of Textile Machines	3			3
6	Mandatory Course	MC 401	Environmental Science	3			0
Total Credit Theory							14
Practical							
1	Engineering Science	ES TT 491	Numerical Method Lab		2		1
2	Engineering Science	ES TT 492	Digital Electronics & Microprocessor Lab		3		1.5
3	Professional Core Lab 4 - Lab I Part I	PC TT 491	Fabric Manufacturing		3		1.5
4	Professional Core Lab 5- Processing Part I	PC TT 492	Textile Chemical Lab I		3		1.5
5	Humanities & Social Sciences including Management Courses	HU 481	Technical Report Writing and Language Lab		2		1
Total Credit Practical							6.5
Total for Fourth Semester				17	13		20.5

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5th SEMESTER

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Professional Core 6 Part II	PC TT 501	Yarn Formation II	3			3
2	Professional Core 7 Part II	PC TT 502	Fabric Manufacturing II	3			3
3	Professional Core 8 Part II	PC TT 503	Textile Chemical Processing II	3			3
4	Professional Core 9 Part II	PC TT 504	Textile Testing II	2			2
5	Professional Elective 2	PE TT 501A/B	Applied Statistics in Textile /Statistical Quality Control in Textile	2			2
6	Open Elective 1	OE TT 501A/B	Total Quality Management /Principle of Marketing and Management	3			3
Total Credit Theory							16
Practical							
1	Professional Core Lab 6-Part II	PC TT 591	Yarn Formation Lab II			3	1.5
2	Professional Core Lab 7-Part II	PC TT 592	Fabric Manufacturing Lab II			3	1.5
3	Professional Core Lab 8 -Part II	PC TT 593	Textile Chemical Processing Lab II			3	1.5
4	Professional Core Lab 9-Part II	PC TT 594	Textile Testing Lab II			3	1.5
Total Credit Practical							6
Total for Fifth Semester				16		12	22

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6thSEMESTER

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Professional Core 10 Part III	PC TT 601	Yarn Formation III	3			3
2	Professional Core 11 Part III	PC TT 602	Fabric Manufacturing III	3			3
3	Professional Core 12 Part III	PC TT 603	Textile Chemical Processing III	3			3
4	Professional Core 13	PC TT 604	Fabric Design	2			2
5	Professional Elective 3	PE TT 601A/B	Theory of Elasticity/Theory of Textile Structure	3			3
6	Open Elective 2	OE TT 601 A/B/C	Introduction to Java /Introduction to Python/ Internet of Things	2			2
Total Credit Theory							16
Practical							
1	Professional Core Lab 10 Part III	PC TT 691	Yarn Formation & Fabric Manufacturing Lab			3	1.5
2	Professional Core Lab 11 Part III	PC TT 692	Textile Chemical Processing Lab III			3	1.5
3	Professional Elective Lab I	PE TT 691A/B	Theory of Elasticity Lab /Theory Textile Structure Lab			3	1.5
Total Credit Practical							4.5
Total for Sixth Semester				16		9	20.5

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7thSEMESTER

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Professional Core 14	PC TT 701	Technical Textile	3			3
2	Professional Elective 4	PE TT 701A/B/C	Colour Science in Textile/ Home Furnishing / IT and CAD & CAM in Textile	2			2
3	Professional Elective 5	PE TT 702 A/B	Advance Chemical Processing /Apparel Technology	2			2
4	Professional Elective 6	PE TT 703 A/B	New Generation Fibre/Specialty Yarn & Nonwoven Technology	2			2
5	Open Elective 3	OE TT 701A/B/C/D	Image Processing/ Nano Technology/ Robotics/ Soft Computing	3			3
Total Credit Theory							12
Practical							
1	Professional Elective Lab 2	PE TT 791A/B/C	Colour Science in Textile Lab/ Home Furnishing Lab / IT and CAD & CAM in Textile Lab			3	1.5
2	Professional Elective Lab 3	PE TT 792 A/B	Apparel Technology/Advance Chemical Processing			3	1.5
3	Internship in industry	PW TT 781	Industrial Internship (4 weeks)				2
4	Project Work	PW TT 782	Project 1			10	5
Total Credit Practical							10
Total for Seventh Semester				12		16	22

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8thSEMESTER

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Humanities & Social Sciences including Management Courses	HM 801 A/B	Industrial Management /Production Planning & Control	2			2
2	Professional Elective 7	PE TT 801A/B/C	Merchandising / Supply Chain Management /Textile Mill Planning &Organization	2			2
3	Open Elective 4	OE TT 802 A/B	Costing and Accountancy/ Entrepreneurship Development	3			3
4	Non-credit subject	MC 801A/B	Indian Constitution/Essence of Indian Knowledge and Tradition	3			0
Total Credit Theory				10			7
Practical							
1	PC	PC TT891	Product Design LAB			2	1
2	Project Work	PW TT 881	Project 2			14	7
Total Credit Practical							8
Total for Eighth Semester				10		16	15