

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 TT

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	PC TT 302	Yarn Formation I	3			3
5	Professional Core 3	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	PC TT 392	Yarn Formation Lab I			3	1.5
4	Professional Core Lab 3	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 TT

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	PC TT 401	Fabric Manufacturing I	3			3
4	Professional Core 5	PC TT 402	Textile Chemical Processing I	3			3
5	Professional Elective 1 A/B	PE TT 401 A/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	PC TT 491	Fabric Manufacturing Lab I			3	1.5
4	Professional Core Lab 5	PC TT 492	Textile Chemical Processing 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 TT

SI No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Professional Core 6	PC TT 501	Yarn Formation II	3			3
2	Professional Core7	PC TT 502	Fabric Manufacturing II	3			3
3	Professional Core 8	PC TT 503	Textile Chemical Processing II	3			3
4	Professional Core 9	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	PC TT 591	Yarn Formation Lab II			3	1.5
2	Professional Core Lab 7	PC TT 592	Fabric Manufacturing Lab II			3	1.5
3	Professional Core Lab 8	PC TT 593	Textile Chemical Processing Lab II			3	1.5
4	Professional Core Lab 9	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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6th SEMESTER TT

Sl No.	Category	Subject Code	Subject Name	Contact hours			Credits
				L	T	P	
Theory							
1	Professional Core 10	PC TT 601	Yarn Formation III	3			3
2	Professional Core 11	PC TT 602	Fabric Manufacturing III	3			3
3	Professional Core12	PC TT 603	Textile Chemical Processing III	3			3
4	Professional Core13	PC TT 604	Fabric Design	2			2
5	Professional Elective 3	PE TT 601 A/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	PC TT 691	Yarn Formation & Fabric Manufacturing Lab			3	1.5
2	Professional Core Lab 11	PC TT 692	Textile Chemical Processing Lab III			3	1.5
3	Professional Elective Lab 1	PE TT 691 A/B	Theory of Elasticity Lab /Theory of Textile Structure Lab			3	1.5
Total Credit Practical							4.5
Total for Sixth Semester				16		9	20.5

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7th SEMESTER TT

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	Advances in Chemical Processing /Apparel Technology	2			2
4	Professional Elective 6	PE TT 703 A/B/C	New Generation Fibre/Specialty Yarn & Nonwoven Technology/ Introduction to Composites	2			2
5	Open Elective 3	OE TT 701A/B/C/D/E/F	Image Processing/ Nano Technology/ Robotics/ Soft Computing/ Wearable Electronics/Medical Textiles	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	Advances in Chemical Processing Lab / Apparel Technology Lab			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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8th SEMESTER TT

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							7
Practical							
1	Professional Core	PC TT891	Product Design LAB			2	1
2	Project Work	PW TT 881	Project 2			14	7
Total Credit Practical							8
Total for Eight Semester				10		16	15

Abbreviation:

TT: Textile Technology;

BS: Basic Science;

ES: Engineering Science

PC: Professional Core;

HM/HU: Humanities & Social Sciences including Management;

PE: Professional Elective;

OE: Open Elective;

MC: Mandatory Non Credit Course

PW: Project Work

X9Y: Lab;

X8Y: Sessional

Where, X may be PC TT/ PE TT/ ES TT/ HU/ PW TT followed by Numerical Representation of a Specific Semester

Y may be 1/2/3 etc.