

M.D. UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
Bachelor of Technology
Scheme effective from 2018-19
SEMESTER 1ST (COMMON FOR ALL BRANCHES)

Scheme

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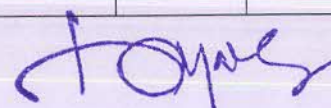
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 → ITI
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 → BBA

Sr. No.	Category	Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
					L	T	P			Mark of Class work	Theory	Practical	Total	
1	Basic Science Course	A	Refer to Table 1	Physics-1	3	1	0	4	4	25	75		100	3
		B	BSC-CH-101G	Chemistry-1	3	1	0	4	4	25	75		100	3
2	Basic Science Course	C	Refer to Table 2	Mathematics-I	3	1	0	4	4	25	75		100	3
3	Engineering Science Course	A	ESC-EE-101G	Basic Electrical Engineering	3	1	0	4	4	25	75		100	3
	Engineering Science Course	B	Refer to Table 3	Programming for Problem Solving	3	0	0	3	3	25	75		100	3
4	Engineering Science Course	A	ESC-ME-101G	Engineering Graphics & Design	1	0	4	5	3	25		75	100	3
		B	ESC-ME-102G	Workshop Technology	1	0	0	1	1	25	75		100	3
5	Basic Science Course	A	Refer to Table 1	Physics Lab-1	0	0	3	3	1.5	25		25	50	3
		B	BSC-CH-102G	Chemistry Lab-1	0	0	3	3	1.5	25		25	50	3
6	Engineering Science Course	A	ESC-EE-102G	Basic Electrical Engineering Lab	0	0	2	2	1	25		25	50	3



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		B	Refer to Table 3	Programming in C Lab	0	0	4	4	2	25		25	50	3
7	Engineering Science Course	B	ESC-ME-103G	Manufacturing Practices Lab	0	0	4	4	2	25		25	50	3
8	Humanities and Social science including Management courses	C	HSMC-ENG-101G	English	2	0	0	2	2	25	75		100	3
TOTAL CREDIT									19.5	175/200	300/375	125/75	600/650	


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M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
Bachelor of Technology
Scheme effective from 2018-19
SEMESTER 2nd (COMMON FOR ALL BRANCHES)

Sr. No.	Category	Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
					L	T	P			Mark of Class work	Theory	Practical	Total	
1	Basic Science Course	B	Refer to Table 1	Physics-I	3	1	0	4	4	25	75		100	3
		A	BSC-CH-101G	Chemistry-1	3	1	0	4	4	25	75		100	3
2	Basic Science Course	C	Refer to Table 2	Mathematics-II	3	1	0	4	4	25	75		100	3
3	Engineering Science Course	B	ESC-EE-101G	Basic Electrical Engineering	3	1	0	4	4	25	75		100	3
	Engineering Science Course	A	Refer to Table 3	Programming for Problem Solving	3	0	0	3	3	25	75		100	3
4	Engineering Science Course	B	ESC-ME-101G	Engineering Graphics & Design	1	0	4	5	3	25		75	100	3
		A	ESC-ME-102G	Workshop Technology	1	0	0	1	1	25	75		100	3
6	Basic Science Course	B	Refer to Table 1	Physics Lab-1	0	0	3	3	1.5	25		25	50	3
		A	BSC-CH-102G	Chemistry Lab-1	0	0	3	3	1.5	25		25	50	3
7	Engineering Science Course	B	ESC-EE-102G	Basic Electrical Engineering Lab	0	0	2	2	1	25		25	50	3



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		A	Refer to Table 3	Programming in C Lab	0	0	4	4	2	25		25	50	3
8	Humanities and Social science including Management courses	C	HSMC-ENG-102G	Language Lab	0	0	2	2	1	25		25	50	3
9	Engineering Science Course	A	ESC-ME-103G	Manufacturing Practices Lab	0	0	4	4	2	25		25	50	3
TOTAL CREDIT									18.5	200/175	225/300	175/75	600/500	

Note: Examiner will set nine questions in total. Question one will be compulsory. Question one will have 10 parts of 2.5 marks from all units and remaining eight questions of 12.5 marks each to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Important Notes:

- Significance of the Course Notations used in this scheme
C = These courses are common to both the groups (Group-A and Group -B).
A = Other compulsory courses for Group-A.
B = Other compulsory courses for Group-B

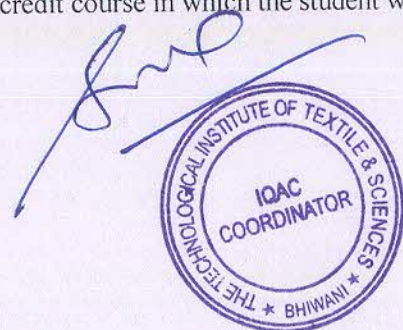


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M.D. UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION effective from 2019-20
Bachelor of Technology (Textile Chemistry)
Third Semester

Sr No.	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Class work	Theory	Practical	Total	
1	BSC-MATH-201G	Applied Statistics & Operation Research	3	0	0	3	3	25	75		100	3
2	BSC-TC-202G	Physical & Organic Chemistry	3	0	0	3	3	25	75		100	3
3	ESC-TC-203G	Polymer Science & Technology	3	0	0	3	3	25	75		100	3
4	PCC-TT/TC/FAE-201G	Introduction to Textile Industrial Practices	3	0	0	3	3	25	75		100	3
5	PCC-TT/TC/FAE-202G	Textile Raw Materials	3	0	0	3	3	25	75		100	3
6	PCC-TC/FAE-203G	Yarn Formation	3	0	0	3	3	25	75		100	3
7	LC-TT/TC/FAE-201G	Textile Industrial Survey	0	0	2	2	1	25		25	50	3
8	LC-TT/TC/FAE-202G	Fibre Microscopy & Identification	0	0	2	2	1	25		25	50	3
9	LC-TC/FAE-203G	Yarn Formation Lab	0	0	2	2	1	25		25	50	3
10	BSC-TC-203G	Qualitative Analysis of Organic Compounds	0	0	2	2	1	25		25	50	3
11	*MC-105G	Indian Constitution	0	0	2	2	0	50				
TOTAL CREDITS							22				800	

*MC- 105G is a mandatory non credit course in which the student will be required passing marks



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M.D. UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION effective from 2019-20
Bachelor of Technology (Textile Chemistry)
Fourth Semester

Sr No.	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)			Duration of Exam (Hours)
			L	T	P			Class work	TheoryPractical	Total	
1	HSMC-EIE-201G	Entrepreneurial and Industrial Engineering	3	0	0	3	3	25	75	100	3
2	ESC-TT/TC/FAE-201G	Computer Aided Textile Designing	3	0	0	3	3	25	75	100	3
3	ESC-TC-204G	Unit Organic Process & Chemical Engineering	3	0	0	3	3	25	75	100	3
4	PCC-TT/TC-206G	Man-Made Fibre Production	3	0	0	3	3	25	75	100	3
5	PCC-TC/FAE-204G	Fabric Formation	3	0	0	3	3	25	75	100	3
6	PCC-TC-205G	Preparatory Wet Processing	3	0	0	3	3	25	75	100	3
7	ESC-TT/TC/FAE - 202G	Computer Aided Textile Designing Lab	0	0	2	2	1	25	25	50	3
8	LC-TC/FAE-204G	Fabric Formation Lab	0	0	2	2	1	25	25	50	3
9	LC-TC-205G	Preparatory Wet processing Lab	0	0	2	2	1	25	25	50	3
10	LC-TC-206G	Analytical Chemistry Lab	0	0	2	2	1	25	25	50	3
11	*MC-108G	Essence of Indian Knowledge Tradition	0	0	2	2	0	50			
TOTAL CREDITS							22			800	



NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

*MC- 108G is a mandatory non credit course in which the student will be required passing marks

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Scheme of Studies and Examination
B.TECH (Textile Chemistry) – 5th Semester
w.e.f. 2020-21

S N	Category	Course Code	Course Title	Hours per week			Total Contact hrs /week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Practical	Total	
1	Professional Core Course	PCC-TC-301G	Technology of Dyeing	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-TC-302G	Textile Printing	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-TT/TC/FAE-303G	Textile Testing	3	0	0	3	3	25	75		100	3
4	Professional Elective Courses	PEC-I	Elective-I	3	0	0	3	3	25	75		100	3
5	Open Elective Courses	OEC-I	Open Elective-I	3	0	0	3	3	25	75		100	3
6	Open Elective Courses	OEC-II	Open Elective-II	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC-TC-301G	Dyeing Lab-I	0	0	2	2	1	25		25	50	3
8	Professional Core Course	LC-TC-302G	Textile Printing Lab	0	0	2	2	1	25		25	50	3
9	Professional Core Course	LC-TT/TC/FAE-303G	Textile Testing Practical	0	0	2	2	1	25		25	50	3
TOTAL CREDITS								21				750	

Note:

1. Choose any one from Elective-I
2. Choose any one from Open Elective-I
3. Choose any one from Open Elective-II

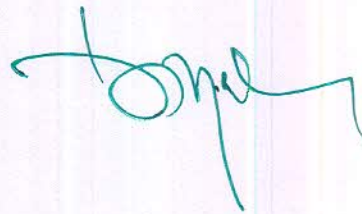
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S.No.	Category	Course Code	Name of the Course	Preferred Semester
Elective-I				
1.	PEC-I	PEC-TC-302G	Chemical Processing of Unconventional Textile Materials	V
2.		PEC-TC-303G	Chemical Processing of Woollen Textiles	V
3.		PEC-TT/TC-301G	Post Extrusion Operations	V
Open Elective-I				
1.	OEC-I	OEC-TC-301G	Textile Design	V
2.		OEC-TC-302G	Textile Colour and Design Concept	V
3.		PEC-TT-303G	Waste Management & Pollution Control	V
Open Elective-II				
1.	OEC-II	OEC-TT/TC-303G	Garment Manufacturing Technology	V
2.		OEC-TT/TC-304G	Apparel Quality Evaluation and Standards	V
3.		OEC-TT/TC/FAE-305G	Introduction to Fashion and Apparel Industries	V


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Scheme of Studies and Examination
B.TECH (Textile Chemistry) – 6th Semester
w.e.f. 2020-21

S N	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Practical	Total	
1	Humanities and Social science including Management courses	HSMC-TT/TC/FAE-301G	Merchandising & Export Management	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-TC-304G	Processing of Synthetics & Blends	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-TC-305G	Textile Finishing	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC-TC-306G	Textile Processing Machinery	3	0	0	3	3	25	75		100	3
5	Professional Elective Course	PEC-II	Elective-II	3	0	0	3	3	25	75		100	3
6	Open Elective Courses	OEC-III	Open Elective-III	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC-TC-304G	Dyeing Lab-II	0	0	2	2	1	25		25	50	3
8	Professional Core Course	LC-TC-305G	Characterisation and Evaluation of Dyed & Finished Textiles	0	0	2	2	1	25		25	50	3
9	Professional Core Course	LC-TC-306G	Technical Analysis Lab	0	0	2	2	1	25		25	50	3
TOTAL CREDITS								21				750	

Note: 1. At the end of 6th semester each student has to undergo Practical Training of 6 weeks in a Mill/Industry and submit typed report along with a certificate from the organization & its evaluation shall be carried out through viva in the 7th Semester.

2. Choose any one from Elective-II
3. Choose any one from Open Elective-III

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S.No.	Category	Course Code	Name of the Course	Preferred Semester
Elective-II				
1.	PEC-II	PEC-TC-304G	Textile Chemical Testing	VI
2.		PEC-TC-305G	Textile Auxiliaries	VI
3.		PEC-TC-306G	Chemistry of Dyes	VI
Open Elective-III				
1.	OEC-III	OEC-TC-306G	Garment Processing & Quality Control	VI
2.		PEC-TT-305G	Structure and Properties of Fibres	VI
3.		OEC-TC-307G	Coating & Laminating of Textiles	VI


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M.D. UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION effective from 2021-22
4 year Curriculum structure
Undergraduate Degree in Engineering & Technology
Branch / Course: Bachelor of Technology (Textile Chemistry)
Total credits (4 year course) 160

Seventh Semester

Sr No.	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Class work	Theory	Practical	Total	
1	Professional Elective Courses	PEC-III	Elective-III	3	0	0	3	3	25	75	-	100	3
2	Professional Elective Courses	PEC-IV	Elective-IV	3	0	0	3	3	25	75	-	100	3
3	Open Elective Courses	OEC-IV	Open Elective-IV	3	0	0	3	3	25	75	-	100	3
4	Professional Core Course	LC-TC-401G	Colour Measurement & CCM Lab	1	0	3	4	2	25	-	25	50	3
5	Project/Internship	PROJ-TC-401G	Mill Practice (Evaluation)	0	0	0	0	5	100	-	100	200	Viva
6	Project/Internship	PROJ-TC-402G	Seminar	0	0	2	2	-	-	-	-	-	-
7	Project/Internship	PROJ-TC-403G	Project Work (Mid Term Evaluation)	0	0	4	4	2	100	-	-	100	Viva
TOTAL CREDITS								18	300	225	125	650	



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S.No.	Category	Course Code	Name of the Course	Preferred Semester
Elective-III				
1.	PEC-III	PEC-TC-401G	Colour Measurement & Computer Colour Matching	VII
2.		PEC-TC-402G	Theory of Colouration of Textiles	VII
3.		PEC-TC-403G	Sustainable Textile Chemical Processing	VII
Elective-IV				
1.	PEC-IV	PEC-TC-404G	Developments in Textile Chemical Processing	VII
2.		PEC-TC-406G	Advance Chemical Processing	VII
3.		PEC-TC-407G	Emerging trends in Chemical Processing of Textiles	VII
Open Elective-IV				
1.	OEC-IV	OEC-TT/TC-401G	Production and Operation Management in Textile	VII
2.		OEC-TT/TC-402G	Finance, Material & Human Resource Management	VII
3.		OEC-TT/TC/FAE-403G	Fashion Retailing and Promotion	VII




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M.D. UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION effective from 2021-22
4 year Curriculum structure
Undergraduate Degree in Engineering & Technology
Branch / Course: Bachelor of Technology (Textile Chemistry)
Total credits (4 year course) 160

Eighth Semester

Sr No.	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Class work	Theory	Practical	Total	
1	Professional Elective Courses	PEC-V	Elective-V	3	0	0	3	3	25	75		100	3
2	Professional Elective Courses	PEC-VI	Elective-VI	3	0	0	3	3	25	75		100	3
3	Open Elective Courses	OEC-V	Open Elective-V	3	0	0	3	3	25	75		100	3
4	Project/Internship	PROJ-TC-402G	Seminar	0	0	4	4	2	200			200	Presentation
5	Project/Internship	PROJ-TC-404G	Project Work (Final Evaluation)	0	0	12	12	6	100		100	200	Viva
TOTAL CREDITS								17	375	225	100	700	

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S.No.	Category	Course Code	Name of the Course	Preferred Semester
Elective-V				
1.	PEC-V	PEC-TC-408G	Process & Quality Control in Chemical Processing	VIII
2.		PEC-TC-409G	Energy Conservation in Wet Processing	VIII
3.		PEC-TC-410G	Textile Process House Management	VIII
Elective-VI				
1.	PEC-VI	PEC-TC-411G	Environmental Aspects of Textile Processing	VIII
2.		PEC-TC-412G	Eco-friendly Processing & Manufacturing of Textiles	VIII
3.		PEC-TT/TC-405G	Non-Woven Technology	VIII
Open Elective-V				
1.	OEC-V	OEC-TT/TC-407G	Technical Textiles	VIII
2.		OEC-TT/TC/FAE-404G	High Performance Fibres	VIII
3.		OEC-TC/FAE-405G	Sportswear Textiles and Accessories	VIII

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