Appendix – II

G-Scheme

M.D. UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology

Scheme effective from 2018-19

SEMESTER 1st (COMMON FOR ALL BRANCHES)

2 - 1	Category	Course	Course Code	Course Title		urs pe	er	Total Contact	Credi t	Exa	mination Sc	hedule (Mark		Duration of Exam (Hours)
Sr. No.	Category	Notation	iller of the first		L	T	P	hrs/week	W H	Mark of Class	Theory	Practical	Total	
							0	4	4	work 25	75		100	3
1	Basic	A	Refer to Table 1	Physics-1	3	1		4	4	25	75		100	3
	Science Course	В	BSC-CH-101G	Chemistry-1	3	1	0	4	4	25	75		100	3
2	Basic	С	Refer to Table 2	Mathematics-I	3	1	0	4						
	Science Course			Basic	3	1	0	4	4	25	75		100	3
3	Engineering Science	A	ESC-EE-101G	Electrical Engineering									100	3
	Course		m 11 2	Programming	3	0	0	3	3	25	75		100	
	Engineering Science	В	Refer to Table 3	for Problem Solving							3		100	3
	Course			Engineering	1	0	4	5	3	25		75	100	
4	Engineering Science	A	ESC-ME-101G	Graphics & Design									100	3
	Course	В	ESC-ME-102G	Workshop	1	0	0	1	1	25	75		100	
		В		Technology			/ 3	3	1.5	25		25	50	3
5	Basic	A	Refer to Table 1	Physics Lab-1	0	1/	13	#	1.5			25	50	3
1	Science Course	В	BSC-CH-102G	Chemistry Lab-1	3	K	1		1		1	25)50	3
6	Engineering Science Course	g A	ESC-EE-102G	Basic Electrical Engineering Lab	0	10					Director,	OLOGICAL INS	BHIWANI	

		В	Refer to Table 3	Programming in C Lab	0	0	4	4	2	25	
7	Engineering	В	ESC-ME-103G	Manufacturing Practices Lab	0	0	4	4	2	25	
	Science Course Humanities	С	HSMC-ENG-101G	English	2	0	0	2	2	25	75
8	and Social science including Managemen t courses					T	OTAL	L CREDIT	19.5	175/200	300/375



Director
THE TECHNOLO
OF TEXTILE & SC

M.D. UNIVERSITY SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology

Scheme effective from 2018-19

SEMESTER 2nd (COMMON FOR ALL BRANCHES)

Sr.	Category	Course	Course Code	Course Title	Но	urs pe	100	Total Contact	Credit	Exa	mination So	chedule (Marl		Ouration of Exam (Hours)
No.	Cumgay	Notation			L	T	P	hrs/week		Mark of Class	Theory	Practical	Total	
									4	work 25	75		100	3
1	Basic	В	Refer to Table 1	Physics-1	3	1	0	4		25	75		100	3
•	Science	A	BSC-CH-101G	Chemistry-1	3	1	0	4	4				100	3
	Course	January Views	Refer to Table 2	Mathematics-	3	1	0	4	4	25	75		100	
2	Basic Science	С	Refer to Table 2	II					N. T.	N. A. L.				
	Course			D :-	3	1	0	4	4	25	75		100	3
3	Engineering Science	В	ESC-EE-101G	Basic Electrical	3				-					سنست
	Course			Engineering		0	0	3	3	25	75		100	3
	Engineering Science	A	Refer to Table 3	Programming for Problem	3	0	0							
	Course			Solving			1	5	3	25		75	100	3
4	Engineering Science	В	ESC-ME-101G	Engineering Graphics &	1	0	4	3						illum, Lev
	Course			Design				1	1	25	75		100	3
		A	ESC-ME-102G	Workshop Technology	1	0	0	1						1
					0	0	3	3	1.5	25		25	50	3
6	Basic	В	Refer to Table 1	Physics Lab-1	0	0			1.5	25		25	50	3
	Science Course	A	BSC-CH-102G	Chemistry Lab-1	R	10	3		1.5	25		25	50	3
7	Engineering Science Course	В	ESC-EE-102G	Basic Electrical Engineering Lab	A MSTI	O TUTE OF	2				Director,	DLOGICAL INS		

		A	Refer to Table 3	Programming in C Lab	0	0	4	4	2	25		25	50	3
			102G	Language Lab	0	0	2	2	1	25		25	50	3
3	Humanities and Social science including Management	С	HSMC-ENG-102G	Language Duo								e II		
	courses				0	0	4	4	2	25		25	50	3
9	Engineering	Α	ESC-ME-103G	Manufacturing Practices Lab	0	0								
	Science Course				lio	T	OTAL	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:

1. Significance of the Course Notations used in this scheme

C =These courses are common to both the groups (Group-A and Group –B).

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A = Other compulsory courses for Group-A.

B = Other compulsory courses for Group-B.

Director,

B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme of Studies/Examination w.e.f. 2019-20

Semester-3

T			Hours	per w	eek	Tot al			Exam	ination (Mai	n Sched rks)	lule	Dur atio
·.).	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	k C	Iar of Clas s vor k	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	PCC-CSE-201G	Database Management Systems	3	0	0	3	3		25	75		100	3
2	PCC-CSE-203G	Data Structures & Algorithms	3	0	0	3	3		25	75		100	3
3	ESC-CSE-205G	Digital Electronics	3	0	0	3	3		25	75		100	3
4	PCC-CSE-207G	Python Programming	3	0	0	3	3		25	75		100	3
5	BSC-MATH- 203G	Mathematics - III (Multivariable Calculus and Differential Equations)	2	0	0	2		2	25	75		100	3
6	HSMC-01G	Economics for Engineers	3	0	ò	3		3	25	75		100	3
7	LC-CSE-209G	Database Management Systems LAB	0	0	3	3		1.5	25		25	50	
8	LC-ESC-211G	Digital Electronics	0	0	3		3	1.5	25		25	5 50	
9	LC-CSE-213G	Data Structures & Algorithms LAB Using C	0	0		3	3	1.5	25	5	2	5 50)
1	0 LC-CSE-215G	Python Programming LAE	3 0	0		3	3.	1.5	2.	5	2	5 5	0
						To	tal	23				80	00

Director,

B. Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme of Studies/Examination w.e.f. 2019-20

Semester-4

			Hour	s per w	eek	Tot al		Exan	ninatio (Ma	n Sched rks)	ule	Dur atio
Sr. No.	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	Mar k of Clas s wor k	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	PCC-CSE-202G	Discrete Mathematics	3	1	0	3	4	25	75		100	3
2	PCC-CSE-204G	Computer Organization&Archi tecture	3	0	0	3	3	25	75		100	3
3	PCC-CSE-206G	OperatingSystem	3	0	0	3	3	25	75		100	3
4	PCC-CSE-208G	ObjectOriented Programming	3	0	0	3	3	25	75		100	3
5	HSMC-02G	Organizational Behaviour	3	0	0	3	3	25	75		100	3
6	*MC-106G	Environmental Sciences	3	0	1	4	0			-	-	3
7	PCC-CSE-210G	Web Technologies	3	0.	0	3	3	25	75		100	3
8	LC-CSE-212G	OperatingSystem LAB	0	0	3	3	1.5	25		25	50	3
9	LC-CSE-214G	ObjectOriented Programming LAB Using C++	0	0	3	3	1.5	25		25	50	3
10.	LC-CSE-216G	Web Technologies Lab	0	0	2	2	1	25		25	50	3
	. 111					Tota	1 23				750	

*MC-106G is a mandatory non -credit course in which the students will be required passing marks in theory.

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.

Director

Director

Scheme of Studies and Examination B.TECH (Computer Science & Engineering) - 5th Semester w.e.f. 2020-21

				Н	ours p	5.503			Exam	nination (Mar		lule	Dur
Sr. No.	Category	Course Code	Course Title	L	T	Р	Total Contac t Hrs. per week	Cre dit	Mar k of Clas s wor k	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	Engineering Science Course	ESC-CSE-301G	Microprocessor	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-CSE-303G	Computer Networks	3	0	0	3	3	25	75		100	3
. 3	Professional Core Course	PCC-CSE-305G	Formal Languages & Automata	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC-CSE-307G	Design & Analysis of Algorithms	3	0	0	3	3	25	75		100	3
5	Professional Core Course	PCC-CSE-309G	Programming in Java	3	0	0	3	3	25	75		100	3
6	Professional Elective Course	Refer to Annexure I	Elective-I	3	0	0	3	3	25	75		100	3
7	Engineering Science Course	LC-ESC-321G	Microprocessor Lab	0	0	2	2	1	25	-	25	50	3
8	Professional Core Course	1 11-(5)-5/5(1	Computer Networks Lab	0	0	3	3	1.5	25	-	25	50	3
9	Professional Core Course	1 11-() [-5/7(1	Design & Analysis of Algorithms Using C++	0	0	3	3	1.5	25	-	25	50	3
10	Professiona Core Course	111-151-52/0	Programming in Java Lab	0	0	3	3	1.5	25	-	25	50	3
1:	1 Training	PT-CSE-329G	Practical Training		-			-	-	-	*	Refer I	Note 1
			TOTAL CR	EDIT					3.			80	0

Note:

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1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B/C, F. A student who is awarded 'F' grade is required to repeat Practical Director, STITUTEO Training.

THE TECHNOLOGICAL INSTITUTE choose any one from Elective-1 Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F. OF TEXTILE & SCIENCES, BHIWANI

Scheme of Studies and Examination B.TECH (Computer Science & Engineering) – 6th Semester

w.e.f. 2020-21

				Hou	rs per v	week	Tot al		Exan	ninatio (Ma	n Sched rks)	dule	Dur atio
Sr. No.	Category	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	Mar k of Clas s wor k	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	Professional Core Course	PCC-CSE-302G	Compiler Design	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-CSE-304G	Artificial Intelligence	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-CSE-306G	Advanced Java	3	0	0	3	3	25	75		100	3
4	Engineering Science Course	ESC-CSE-308G	Mobile and Wireless Communication	3	0	0	3	3	25	75		100	3
5	Professional Elective Course	Refer to Annexure II	Elective-II	3	0	0	3	3	25	75		100	3
6	Professional Elective Course	Refer to Annexure III	Elective-III	3	0	0	3	3	25	75		100	3
7	Project	PROJ-CSE-322G	Project-I	0	0	4	4	2	25		25	50	3
8	Professional Core Course	LC-CSE-324G	Compiler Design Lab	0	0	3	3	1.5	25		25	50	3
9	Professional Core Course	1 11-(\\-\\)	Artificial Intelligence Lab using python	0	0	3	′ 3	1.5	25		25	50	3
.0	Professional Core Course	1 1 (-(\\-3/8\)	Advanced Java Lab	0	0	2	2	1	25		25	50	3
11.	Mandatory Courses	MC-317G	Constitution of India	2	0	0							
			TOTAL					24				800	

*MC-317G is a mandatory non-credit course in which the students will be required passing marks in theory.

NOTE:

1. At the end of 6th 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 7th Semester.

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2. Choose any one from Elective-II

3. Choose any one from Elective-III

Annexure I

Elective -I (Professional Elective Course)

- 1. PEC-CSE-311G:Software Engineering
- 2. PEC-CSE-313G: System Programming and System Administration
- 3. PEC-CSE-315G: Digital Image Processing

Annexure II

Elective -II (Professional Elective Course)

- 1. PEC-CSE-310G:Advanced Database Management System
- 2. PEC-CSE-312G: Mobile Application Development
- 3. PEC-CSE-314G:Computer Graphics
- 4. PEC-CSE-330G: Communication Engineering

Annexure III

Elective -III (Professional Elective Course)

- 1. PEC-CSE-316G: Distributed System
- 2. PEC-CSE-318G :Information Technology & Industry Business Skills
- 3. PEC-CSE-320G: Data Science
- 4. PEC-CSE-332G: VHDL and Digital Design

Director

THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

B.Tech (COMPUTER SCIENCE & ENGINEERING) Scheme of Studies/Examination Semester 7th w.e.f. 2021-2022

				Hou		per	Total		Exami (Mark	nation (s)	Sche		Dur atio
Sr. No.	Category	Course Code	Course Title	L	Т	P	Contac t Hrs. per week	Cre dit	Inte rnal Ass esm ent	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	Professional Core Course	PCC-CSE-401G	Neural Networks	3	0	0	3	3	25	75		100	3
2	Professional Elective Course	Refer to Annexure IV	Professional Elective –IV	3	0	0	3	3	25	75		100	3
3	Professional Elective Course	Refer to Annexure V	Professional Elective –V	3	0	0	3	3	25	75		100	3
4	Open Elective Course	Refer to Annexure OEC-I	Open Elective –I	3	0	0	3	3	25	75		100	3
5	Professional Core Course	LC-CSE-421G	Neural Networks Lab	0	0	2	2	1	25	-	25	50	3
6	Project	PROJ-CSE- 423G	Project-II	0	0	6	6	3	50	-	50	100	3
7	Professional Core Course	1 P1-CSE-425G	Practical Training	0	0	0	1	-		-	-	-	-
		TOTAL CREDI	т					16	175	300	75	550	

NOTE:

1. Practical Training II: The evaluation of Practical Training-II will be based on seminar, viva-voce, report submitted by the students. According to performance, the students will be awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical

Training.

2. Choose one subject from each Professional Elective -IV, Professional Elective -V and Open Elective - I. List of elective subjects is attached as annexures.

Director,



Annexure IV: Professional Elective -IV

1. PEC-CSE-403G: Software Project Management

2. PEC-CSE-405G: Web Mining

3. PEC-CSE-407G: Predictive Analysis

4. PEC-CSE-409G: Information Hiding Techniques

Annexure V: Professional Elective -V

1. PEC-CSE-411G: Network Security and cryptography

2. PEC-CSE-413G: Software Testing

3. PEC-CSE-415G: Cyber Security Threats

4. PEC-CSE-417G: Advanced Computer Architecture

Annexure OEC-I: Open Elective-I

1. OEC-PHY-101G: Material Science

2. OEC-ECE-451-G: Electronic Principles

3. HSMC-08G: Fundamentals of Management

4. OEC-CE-451-G: Disaster Management

5. HSMC-10G: English for Professionals

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B.Tech (COMPUTER SCIENCE & ENGINEERING)

Scheme of Studies/Examination Semester 8th

w.e.f. 2021-2022

				Hour	s per v	week	Tot al		Exami (Mark		Sche	dule	Dur
Sr. No.	Category	Course Code	Course Title	L	Т	Р	Con tact Hrs. per wee k	Cre dit	Inte rnal Ass esm ent	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	Professional Core Course	PCC-CSE-402G	Machine Learning	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-CSE-404G	Big Data Analytics	3	0	0	3	3	25	75		100	3
3	Open Elective Course	Refer to Annexure OEC- III	Open Elective-II	,3	0	0	3	3	25	75		100	3
4	Professional Core Course	LC-CSE-410G	Big Data Analytics Lab	0	0	0	2	1	25		25	50	3
5	Professional Core Course	LC-CSE-412G	Machine Learning with Python Lab	0	0	2	2	1	25		25	50	3
6	Project	PROJ-CSE-422G	Project-III	0	0	8	4	4	50		50	100	3
		TOTAL CREDIT						15	175	225	100	500	

NOTE:

Choose one subject from open Elective - II. List of elective subjects is attached as annexure.

Annexure OEC-II: Open Elective-II

1. PEC-ME-410G: Quality Engineering

2. OEC-ECE-430G: Wireless Adhoc and Sensor Networks

3. OEC-ECE-452-G: Intelligent Instrumentation for Engineers

4. OEC-CE- 448G: Traffic Engineering and Road-Safety

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5. OEC-FE-08G: Conventional and Renewable Energy Resources

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS **B.TECH (Electronics and Communication Engineering)**

Common with

B.Tech (Electronics and Tele Communication) SEMESTER -3rd w.e.f. 2019-20

				ach hed	-	Marks of Class		ination arks	Tota	Cred	Duratio n of	Contact Hrs./wk
S. No.	Course No.	Course Title	L	Т	P	work	Theor y	Practic al	1	it	Exam	
1	PCC- ECE201G	Electronic Devices	3	0	1	25	75	-	100	3	3	3
2	LC- ECE203G	Electronic Devices lab	0	0	2	25	-	25	50	1	3	2
3	PCC-CSE- 221G	Data Structures	3	0	0	25	75		100	3	3	3
4	PCC- ECE209G	Signals and Systems	3	0		25	75	-	100	3	3	3
5	PCC- ECE211G	Network Theory	3	1	-	25	75		100	3	3	3
6	LC-ECE- 212G	Network Theory Lab	0	0	2	25	-	25	50	1	3	2
7	LC-ECE-213G	PCB & ELECTRONIC WORKSHOP LAB	0	0	2	50		50	100	2	3	2
8	HSMC-01G	Economics for Engineers (Common with CSE)	3	0	0	25	75		100	3	3	3
9	*MC-106G	Environmental Science	3	0	1	25	75	-	1	-	3	4
		Total							700	19		27

*MC-106G is a mandatory non -credit course in which the students will be required passing

marks in theory.

COORDINATOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS B.TECH (Electronics and Communication Engineering) Common with

B.Tech (Electronics and Tele Communication) SEMESTER –4th w.e.f. 2019-20

			Tea Sch		100	Marks of		ination arks	Tota	Cred	Duratio n of	Conta ct
S. No.	Course No.	Course Title	L	T	P	Class work	Theor y	Practic al	1	it	Exam	Hrs./w k.
1	PCC- ECE202G	Communication System	3	0	-	25	75	-	100	3	3	3
2	LC- ECE204G	Communication System lab	0	0	2	25	38.	25	50	1	3	2
3	PCC- ECE206G	Analog Circuits	3	0	-	25	75	-	100	3	3	3
4	LC- ECE208G	Analog Circuits lab	0	0	2	25		25	50	1	3	2
5	PCC- ECE205G	Digital Electronics	3	1		25	75	-	100	3	3	4
6	LC- ECE207G	Digital Electronics lab	0	0	2	25		25	50	1	3	2
7	PCC- ECE210G	Microcontrollers	3	1	-	25	75		100	3	3	4
8	LC-ECE- 214G	Microcontrollers Lab	0	0	2	25	-	25	50	1	3	.2
9	HSMC-020	6 Organizational Behavio	r 3	C	0	25	75	-	10	0 3	3	3
10	BSC-MATH 202G	H- Mathematics-III (Partia differential equations and Numerical methods)	3	1		25	75		10	0 4	3	4
		Total	+						80	0 23	3	29

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Director,

Scheme of Studies and Examination B.TECH (Electronics & Communication Engineering) – 5th Semester w.e.f. 2020-21

				Hour	s per w	eek	Tota		Exan	ninatio (Ma	n Sched rks)	ule	Dur
Sr. No.	Category	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	Inte rnal Ass ess men t	Ext ern al Exa min atio n	Pra ctic al	Tot al	atio n of Exa m (Ho urs)
1	Professional Core Course	PCC-ECE301G	Electromagnetic Waves	3	1	0	4	4	25	75		100	3
	Professional Core Course	PCC-ECE303G	Computer Organization & Architecture	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-ECE305G	Communication Engineering	3	1	0	4	4	25	75		100	3
4	Professional Core Course	PCC-ECE307G	Digital Signal Processing	3	1	0	4	4	25	75		100	3
5	Program Elective Course	Refer to Annexure I	Program Elective –I	3	1-	0	4	4	25	75		100	3
6	Open Elective Course	Refer to Annexure I	Open Elective-I	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC-ECE323G	Electromagnetic Waves Lab	0	0	3	3	1.5	25		25	50	3
8	Professional Core Course		Digital Signal Processing Lab	0	0	3	3	1.5	25		25	50	3
9	Training	PT-ECE327G	Practical Training – 1	- 1	-	-	-			-	*]	Refer N	lote
-			TOTAL CRI	EDIT				25	,			700	

Note:

1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.

2. Choose any one from Elective-I

3. Choose any one from open Elective-I

Excellent: A; Good: B; Satisfactory: C; Not Satisfactory: F.

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Annexure I

Elective –I

PEC-ECE309G	Power Electronics
PEC-ECE311G	Nano electronics
PEC-ECE313G	Linear IC Applications
PEC-ECE315G	Scientific computing

Open Elective-I

OEC-ECE317G	Object Oriented Programming with C++
OEC-ECE319G	Additive Manufacturing
OEC-ECE321G	Measurements and Instrumentation

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							wee .k		men t	min atio n	al	as	(Ho urs)
1	Professional Core Course	PCC- ECE302G	Control Systems	3	1	0	4	4	25	75		100	3
	Professional Core Course	PCC- ECE304G	Computer Network	3	1	0	4	4	25	75		100	3
3	Humanities/ Basic Science	HUM-ECE- 306G	Engineering Ethics	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC- ECE308G	CMOS Design	3	1	0	4	4	25	75		100	3
5	Program Elective Course	Refer to Annexure II	Program Elective –II	3	1	0	4	4	25	75		100	3
6	Open Elective Course	Refer to Annexure II	Open Elective-II	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC- ECE322G	Computer Network Lab	0	0	4	4	2	25		25	50	3
8	Professional Core Course	LC- ECE324G	Control System Lab	0	0	3	3	1.5	25	2=	25	50	3
9	Professional Core Course	LC- ECE326G	Mini Project/Electroni c Design workshop	0	0	4	4	2	25		25	50	3
			TOTAL CR	EDIT				27. 5				750	

Note:

Each student has to undergo practical training of 6 weeks during summer vacation after 6th semester and its evaluation shall be carried out in 7th Semester.

Choose any one from Elective-II

Choose any one from Open Elective-II

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Annexure II

Elective –II

PEC-ECE310G	Bio-Medical Electronics	
PEC-ECE312G	VHDL and Digital Design	
PEC-ECE314G	Introduction to MEMS	W20
PEC-ECE316G	Speech and Audio Processing	

Open Elective-II

OEC-ECE318G	Python Programming
OEC-ECE320G	Probability and Stochastic Processes

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS

B.TECH (Electronics and Communication Engineering Common with Electronics and Telecommunication Engineering)

SEMESTER -7th w.e.f. 2021-22

				Hou	rs per	week	Tota l		Exam	inatior (Mar	Sched	ule	Dur atio
Sr. No.	Category	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	Inte rnal Ass ess men t	The ory	Pra etic al	Tot al	n of Exa m (Ho urs)
1	Professional Elective Course	Refer to Annexure-I	Professional Elective-III	3	3	0	6	3	25	75	į	100	3
2	Professional Core Course	PCC-ECE-401G	Fiber Optic Communication	3	3	0	6	3	25	75	-	100	3
3	Professional Core Course	PCC-ECE-402-G	Antenna and Wave	3	3	0	6	3	25	75	-	100	3
4	Professional Elective Course	Refer to Annexure-I	Professional Elective-IV	3	3	0	6	3	25	75		100	3
5	Professional Elective Course	Refer to Annexure-I	Professional Elective-V	3	3	0	6	3	25	75		100	3
7	Mandatory Course	MC-417-G	Constitution of India	2	0	0			Refer N	Note:1	(Gradir	ng)	34
8	LAB	LC-ECE-405-G	Data Communication Networking Lab	0	0	2	2	1.5	25	-	25	50	3
9	Project	PROJ-ECE-407-G	Project Stage-I			4	4	5	50	-	100	150	-
			TOTAL CR	REDIT				21.	5 200	375	125	700	

Note:

1. The students will be awarded grades A, B, C & F in Evaluation of Constitution of India. A student who is awarded 'F' grade is required to repeat.

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

2. Choose any one subject from Elective-III.

3. Choose any one subject from Elective-IV.

4. Choose any one subject from Elective-V.

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	The state of the s	The state of the s
2	PEC-ECE-410-G	Mobile Communication and Networks
17	LEC-ECE-410-0	THOOLE COMMON

Professional Elective-IV

S. No.	Course Code	Course Title		
1	PEC-ECE-411-G	Data Communication Networking & Security		
2	PEC-ECE-412-G	Error Correcting Codes		

Professional Elective-V

S. No.	Course Code	Course Title
1	PEC-ECE-413-G	Wireless Sensor Networks
2	PEC-ECE-414-G	Radar and Sonar
3	PEC-ETE-401-G	Telecommunication and Switching Networks

Director,



Annexure-II

Professional Elective-VI

S. No.	Course Code	Course Title
1	PEC-ECE-415-G	Embedded System
2	PEC-ECE-416-G	High speed Electronics
3	PEC-ECE-421-G	Mixed Signal Design

Annexure-III

Open Elective Courses-I

S. No.	Course Code	Course Title
1	OEC-ECE-417-G	Renewable Energy Resources
2	OEC-ME-455-G	Composite Materials
3	OEC-BME-419-G	Biosensors
4.	OEC-CE-417-G	Disaster Management
5.	OEC-CE-402-G	Solid & Hazardous waste management
6.	OEC-ME-410-G	Quality Engineering
7	OEC -ME-402G	Operations Research
8.	OEC -EE-412G	Electrical Power Generation

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OF TEXTILE & SCIENOLO, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester III (Second Year)
B.Tech (MECHANICAL ENGINEERING)w.e.f. 2019-20

0	Gatagomi			Ho pe we	er		Total Conta	Cre	Exami	nation (Mark		ile	Durati on of Exam
Sr. No.	Category Course Notation	Course Code	Course Title		T	P ct hrs/w eek		dit	Mark of Class work	The ory	Pra ctic al	Tota 1	(Hour
1	Basic Science course	BSC-ME- 201G	Physics II(Optics & Waves)	3	0	0	3	3	25	75		100	3
2	Basic Science course	BSC-ME- 203G	Mathematics-III	3	1	0	4	4	25	75		100	3
3.	Basic Science course	BSC-BIO- 205G	Biology	2	1	0	3	3	25	75		100	3
4.	Engineering Science course	ESC-ECE- 207G	Basics of Electronics Engg.	2	0	0	2	2	25	75		100	3
5.	Engineering Science course	ESC-ME- 209G	Engineering Mechanics	3	0	0	3	3	25	75		100	3
6.	Engineering Science course	ESC-ME- 211G	Basics of Mechanical Engg.	2	0	0	2	2	25	75		100	3
7.	Professional Core courses	PCC-ME- 213G	Thermodynamics	3	1	C	4	4	25	75		100	3
8.	Engineering Science course	LC-ME- 215G	Basics of MechanicalEngg.	0	C	2	2 2	1	25		25	50	3
				roı	A	L	CREDI	Г 22	, a			750	

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester IV (Second Year) B.Tech. (MECHANICAL ENGINEERING)w.e.f. 2019-20

				Ho pe we	er		Total Conta		A STATE OF THE PARTY OF THE PAR	Exami	nation S (Marks		ıle	Durati on of
r. o.	Category Course Notation	Course Code	Course Title		T	P	ct hrs/w eek	dit		Mark of Class work	The	Pr act ica l	Total	Exam (Hour s)
	Professional Core courses	PCC-ME- 202G	Applied Thermodynamics	3	1	0	4	4		25	75		100	3
2	Professional Core courses	PCC- ME- 204G	Fluid Mechanics	3	1	0	4	4		25	75		100	3
	Professional Core courses	PCC- ME- 206G	Strength of materials	3	1	0	4	4		25	75	//	100	3
4	Professional Core courses	PCC- ME- 208G	Materials Engineering	3	0	0	3	3		25	75		100	3
5	Professional Core courses	PCC- ME- 210G	Instrumentation & Control	3	0)	3		3	25	75		100	3
6	Professional Core courses	LC- ME- 212G	Applied Thermodynamics Lab	0	()	2 2	1		25		25	50	3
7	Professional Core courses	LC- ME- 214G	SOM Lab	()	0	2 2		1	25		25	50	3
8	Professional Core courses	LC- ME- 216G	Fluid Mechanics Lab		0	0	2 2		1	25		25	50	3
9	Professional Core courses	LC- ME- 218G	Materials Lab		0	0	2 2	2	1	25		25	50	
10	Professional Core courses	LC- ME- 220G	Instrumentation Lab		0	0	2	2	1	25		25	50	
11	Mandatory course	*MC-106G	Environment Science		3	0	1	-		25	75		-	
			ory non –credit co				CRE	1	23		1		750	

*MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

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 of the

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* BHIWAN

Scheme of Studies and Examination B.TECH (Mechanical Engineering) - 5th Semester w.e.f. 2020-21

			Н	ours p	165	Total Contac		Examin	ation Sch	edule (M	larks)	Dura tion	
S. N.	Course Code	Course Title	L	Т	P	t hrs/we ek	Cre dit	Intern al Assess ment	Extern al Exami nation	Prac tical	Total	of Exam (Hou rs)	
1	PCC-ME-301G	Computer Aided Design & Manufacturing	3	0	0	0	3	25	75		100	3	
2	PCC- ME-303G	Solid Mechanics	3	1	0	4	4	25	75		100	3	
3	PCC- ME-305G	Manufacturing Technology-I	3	0	0	3	3	25	75		100	3	
4	PCC- ME-307G	Kinematics of Machine	3	0	0	3	3	25	75	H	100	3	
5	PCC- ME-309G	Fluid Machines	3	0	0	3	3	25	75		100	3	
6	OEC/HSMC-I	Refer List -I	2	0	0	2	2	25	75		100	3	
7	LC-ME-311G	Computer Aided Design & Manufacturing Lab	0	0	2	2	1	25		25	50	3	
8	LC-ME-313G	Fluid Machines Lab	0	0	2	2	1	25		25	- 50	3	
9	LC-ME-315G	Kinematics of Machine Lab	0	0	2	2	1	25		25	50	3	
10	PT-ME-317G	Practical Training-I	0	0	2	2	0					3	
11	MC-315G	Essence of Indian Traditional knowledge											
	TOTAL						21				750		

Note:

1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

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OPEN ELECTIVE COURSES (OEC)/ HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES (HSMC)-LIST-I

LIST-I (Semester -V)

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1	HSMC-01G	Economics For Engineers	2	2
2.	HSMC-03G	Finance and Accounting	2	2
3.	OEC -ME-301G	Air and Noise Pollution and Control	2	2
4.	OEC -ME-303G	Installation Testing & Maintenance of Electrical Equipments	2	2
5.	OEC -ME-305G	Microprocessor and Interfacing	2	2

Note: Students have to select any one subject from the above list of courses.

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Director,
THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

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

			Hour	s per w	veek	(Marks)					Du rati	
S. N.	Course Code	Course Title	L	Т	P	Total Cont act hrs/w eek	Cre dit	Inter nal Asses smen t	Exte rnal Exa min atio n	Pract ical	Total	on of Ex am (Ho urs
1	PCC-ME-302G	Manufacturing Technology-II	3	0	0	3	3	25	75		100	
2	PCC- ME-304G	Design of machine element-I	3	0	0	3	3	25	75		100	
3	PCC- ME-306G	Heat Transfer	3	1	0	4	4	25	75		100	_
4	PCC- ME-308G	Dynamics of Machines	3	0	0	3	3	25	75		100	
5	LC-ME-310G	Workshop Lab-l	0	0	3	3	1.5	25		25	50	
6	LC-ME-312G	Workshop Lab-II	0	0	2	2	1	25		25	50	
7	LC-ME-314G	Heat Transfer Lab	0	0	2	2	1	25		25	50	
8	LC-ME-316G	Dynamics of Machines Lab	0	0	2	2	1	25		25	50	
9	PCC-ME-318G	Seminar	0	0	2	2	1	50			50	
10		Professional Elective Courses(PEC): Refer List -I	3	0	0	3	3	25	75		100	
11		Refer List -II	2	0	0	2	2	25	75		100	
			T	OTAL			23.5				850	

NOTE:

- 1. Each student has to undergo practical training of 4/6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.
- Assessment of Practical Training-II, undergone at the end of VI semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry/ Professional organization/ Research Laboratory etc. According to performance letter grades A, B, C, F are to be awarded:

Excellent: A; Good : B; Satisfactory: C; notsatisfactory: E

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A student who has been awarded 'F' grade will be required to repeat the practical training.

PROFESSIONAL ELECTIVE COURSES (PEC) (Semester-VI) LIST-I

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-320G	Internal Combustion Engines & Gas Turbines	3	3
2.	PEC-ME-322G	Welding Technology	3	3
3.	PEC-ME-324G	Air Craft Technology	3	3
4.	PEC-ME-326G	Reliability, Availability & Maintainability	3	3

Note: Students will have to select any one out of the list.

HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES (HSMC)-LIST-II.

List-II (Semester-VI)

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1.	HSMC -02G	Organizational Behaviour	2	2
2.	HSMC -04G	Human Resource Management	2	2
3.	HSMC -06G	Industrial Psychology	2	2
4.	HSMC -08G	Fundamentals of Management	2	2

Note: Students have to select any one subject from the above list of courses.

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Studies and Examination B. TECH (Mechanical Engineering) - 7th Semester w.e.f. 2021-22 (Scheme-G)

Cours		pe	urs r eek		Total Contact	Credi	Examination	on Schedule	(Marks)		Duratio n of Exam
e Code	Course Title	L	Т	Р	hrs/wee	t	Internal Assessme nt	External Examination Theory	Practic al	Tota	(Hours)
PEC	Professional Elective Courses(PEC): Refer List-II	-3	0	0	3	3	25	75		100	3
PCC- ME- 401G	Design of Machine Element-II	3	0	0	3	3	25	75		100	3
PCC- ME- 403G	Entrepreneursh ip Development	3	0	0	3	3	25	75		100	3
PEC	Professional Elective Courses(PEC): Refer List-III	3	0	0	3	3	25	75		100	3
LC- ME- 403G	Workshop Lab-III	0	0	2	2	1	25		25	50	3
PCC- ME- 405G	Seminar	0	0	2	2	1	25		25	50	3
PROJ -ME- 407G	Project-I	0	0	9	9	4.5	25		25	50	3
PT- ME- 409G	Practical Training-II	0	0	2	2		R	efer Note:1	(Grading)		
MC- 317G	Constitution of India	2	0	0	2		R	efer Note:2	(Grading)		
	TOTAL C					18.5	175	300	75	550	3

Note: 1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance,

the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat .

Practical Training. Excellent: A; Good: B; Satisfactory: C; Not Satisfactory: F.

Note: 2 The students will be awarded grades A, B, C & F in Evaluation of Constitution of India. A student who

Ex cellent: A; Good: B; Satisfactory: C; Not Satisfactory: F.

3.Choose any one subject from Professional Elective Courses(PEC) (Semester-VII) LIST-II and LIST-III

is awarded The TECHNOLOGICAL NSTITUTE

OF TEXTILE & SCIENCES, BHIWANI



PROFESSIONAL ELECTIVE COURSES(PEC) (Semester-VII) LIST-II

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-401G	Refrigeration & Air Conditioning	3	3
2.	PEC-ME-403G	Project Management	3	3
3.	PEC-ME-405G	Numeric Control of Machine Tools and Robotics	3	3
4.	PEC-ME-407G	Finite Element Analysis	3	3

Note: Students will have to select any one out of the list.

PROFESSIONAL ELECTIVE COURSES(PEC) (Semester-VII) LIST-III

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-409G	Noise and Vibrations	3	3
2.	PEC-ME-411G	Solar Energy Engineering	3	3
3.	PEC-ME-413G	Tribology	3	3
4.	PEC-ME-415G	Composite Materials	3	3

Note: Students will have to select any one out of the list.

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THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Studies and Examination B.TECH (Mechanical Engineering) - 8th Semester w.e.f. 2021-22(Scheme-G)

Course		Howe	urs p	er	Total		E	Examination Schedule (Marks)		Duration of Exa m
Course Code	Course Title	L	T	P	Contact hrs/week	Credit	Internal Assessment	External Examination Theory	Practical	Total 100 100 100 100 50 50 50	(Hours)
PCC-ME- 402G	Industrial Automation	3	0	0	3	3	25	75		100	3
PEC	Professional Elective Courses(PEC): Refer List-IV	3	0	0	3	3	25	75		100	3
PEC	Professional Elective Courses(PEC): Refer List-V	3	0	0	3	3	25	75		100	3
PEC-	Professional Elective Courses(PEC): Refer List-VI	3	0	0	3	3	25	75	× 1	100	3
OEC/HSMC-	Refer OEC List-III	3	0	0	3	3	25	75		100	3
LC- ME- 404G	Workshop Lab-IV	0	0	2	2	1	25		25	50	3
PCC-ME- 406G	Seminar	0	0	2	2	1	25		25	50	3
PROJ-ME- 408G	Project-II	0	0	10	10	5	25		25	50	3
	TOTAL (CRE	DIT			22	200	375	75	650	

1. Choose any one subject from Professional Elective Courses(PEC) (Semester-VIII) LIST-IV

2. Choose any one subject from Professional Elective Courses(PEC) (Semester-VIII LIST-V

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3. Choose any one subject from Professional Elective Courses(PEC) (Semester-VIII LIST-VI.

4. Choose any one subject from Open Elective Courses(OEC)/ Humanities and Social Sciences Including Management Courses (HSMC)- (Semester VIII)-LIST-III

Director,

PROFESSIONAL E ELECTIVE COURSES(PEC) (Semester-VIII) LIST-IV

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-402G	Tool Design	3	3
2.	PEC-ME-404G	Plant Maintenance Engg.	3	3
3.	PEC-ME-406G	Design and Optimization of Thermal Energy Systems	3	3
4.	PEC-ME-408G	Gas Dynamics and Jet Propulsion	3	3

Note: Students will have to select any one out of the list.

PROFESSIONAL ELECTIVE COURSES(PEC) (Semester-VIII) LIST-V

S.No.	Code	Name of Course	No. of Contact Hours	Credits	
1.	PEC-ME-412G	Power Plant Engineering	3	3	
2.	PEC-ME-414G	Product Design and Development	3	3	
3.	PEC-ME-416G	Non Conventional Energy Resources Utilization	. 3	3	
4.	PEC-ME-418G	Introduction to Nanoscience and Nanotechnology	3	3	

Note: Students will have to select any one out of the list.

PROFESSIONAL ELECTIVE COURSES(PEC) (Semester-VIII) LIST-VI

S.No.	Code	Name of Course	No. of Contact Hours	Credits	
1	PEC-ME-420G	Automobile Engineering	3	3	
2.	PEC-ME-422G	Design of Transmission Systems	3	3	
3.	PEC-ME-424G	Alternate Fuels and Energy Systems	3	3	
4.	PEC-ME-426G	Optimisation for Engineering Design	3	3	

Note: Students will have to select any one out of the list.



OPEN ELECTIVE COURSES(OEC)/ HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES (HSMC)-LIST-III

Students have to select any one Open Elective Course-I from the list of courses.

List-III (Semester VIII)

S.No.	Code	Name of Course	No. of Contact Hours	Credits	
1.	OEC-ME-402G	Operation Research	3	3	
2.	OEC -ME-410G	Quality Engineering	3	3 .	
3.	OEC -EE-412G	Electrical Power Generation	3	3	
4.	OEC-CSE-430G	Computer Communication	3	3	
5.	OEC-CE- 448G	Traffic Engineering and Road Safety	3	3	
6.	OEC-CE- 450G	Disaster Management	3	3	
7.	OEC -ECE-453G	Microprocessor Application in Automobiles Sector	3	3	
8.	HSMC-10G	Management Information Systems	3	3	

Note: Students will have to select any one out of the list.



OPEN ELECTIVE COURSES (OEC)/ HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES (HSMC)-LIST-I

LIST-I (Semester -V)

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1.	HSMC-01G	Economics For Engineers	2	2
2.	HSMC-03G	Finance and Accounting	2	2
3.	OEC -ME-301G	Air and Noise Pollution and Control	2	2
4.	OEC -ME-303G	Installation Testing & Maintenance of Electrical Equipments	2	2
5.	OEC -ME-305G	Microprocessor and Interfacing	2	2

Note: Students have to select any one subject from the above list of courses.

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THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

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	Credit	Examination Schedule (Marks)			Duration of Exam	
			L	T	P	hrs/week		Class work	Theory	Practi cal	Total	
1	BSC-MATH-	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-	Introduction to Textile	3	0	0	3	3	25	75		100	3
5	201G PCC-TT/TC/FAE-	Industrial Practices Textile Raw Materials	3	0	0	3	3	2,5	75		100	3
6	202G PCC-TC/FAE-	Yarn Formation	3	0	0	3	3	25	75		100	3
7	203G LC-TT/TC/FAE-	Textile Industrial	0	0	2	2	1	25		25	50	3
8	201G LC-TT/TC/FAE-	Survey Fibre Microscopy &	0	0	2	2	1	25		25	50	3
9	202G LC-TC/FAE-	Identification Yarn Formation Lab	0	0	2	2 .	1	25		25	50	3
10	BSC-TC-203G	Qualitative Analysis	0	0	2	2	1	25		25	50	3
		of Organic Compounds						-				
11	*MC-105G	Indian Constitution	0	0	2	2	0	50			1 000	
	TOTAL CREDITS						22	1			800	

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

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

Fourth Semester

	Entrepreneurial and Industrial Engineering	L 3	Т	P	hrs/week		Class	TheoryPr		
	Entrepreneurial and Industrial Engineering	3	0		hrs/week	3	work		Total	(Hours)
				0	3	3	25	75	100	3
SC-TT/TC/FAE-201G	G-201G Computer Aided Textile	3	0	0	3	3	25	75	100	3
ESC-TC-204G	Designing Unit Organic Process & Chemical Engineering	3	0	0	3	3	25	75	100	3
PCC-TT/TC-206G		3	0	0	3	3	25	75	100	3
PCC-TC/FAE-204G	204G Fabric Formation	3	0	0	3	3	25	75	100	3
PCC-TC-205G	Freparatory Wet Processing	3	0	0	3	3	25	75	100	3
ESC-TT/TC/FAE -	AE - Computer Aided Textile	0	0	2	2	1	25			3
LC-TC/FAE-204G		0	0	2	2	1	25			3
LC-TC-205G		0	0	2	2	1	25	25	50	3
LC-TC-206G		0	0	2	2	1	25	25	50	3
A STATE OF THE STA	Essence of Indian Knowledge Tradition	0	0	2	2	2	50	This	1 000	
	ESC-TT/TC/F 202G LC-TC/FAE-2 LC-TC-205	ESC-TT/TC/FAE - Computer Aided Textile Designing Lab LC-TC/FAE-204G Fabric Formation Lab LC-TC-205G Preparatory Wet processing Lab LC-TC-206G Analytical Chemistry Lab *MC-108G Essence of Indian Knowledge	ESC-TT/TC/FAE - Computer Aided Textile 0 Designing Lab LC-TC/FAE-204G Fabric Formation Lab 0 LC-TC-205G Preparatory Wet processing 0 Lab LC-TC-206G Analytical Chemistry Lab 0 *MC-108G Essence of Indian Knowledge 0 Tradition	ESC-TT/TC/FAE - Computer Aided Textile Designing Lab Desig	ESC-TT/TC/FAE - Computer Aided Textile 0 0 2 Designing Lab LC-TC/FAE-204G Fabric Formation Lab 0 0 2 LC-TC-205G Preparatory Wet processing 0 0 2 Lab LC-TC-206G Analytical Chemistry Lab 0 0 2 *MC-108G Essence of Indian Knowledge 0 0 2	ESC-TT/TC/FAE - Computer Aided Textile 0 0 2 2 2 Designing Lab 0 0 2 2 2 Designing Lab 0 0 2 2 2 Designing Lab 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCC-TC-205G Preparatory Wet Processing 5 0 0 2 2 1 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2	PCC-TC-205G Preparatory Wet Processing 5 0 0 2 2 1 25 ESC-TT/FC/FAE - Computer Aided Textile 0 0 0 2 2 1 25 LC-TC/FAE-204G Fabric Formation Lab 0 0 2 2 1 25 LC-TC-205G Preparatory Wet processing 0 0 2 2 1 25 LC-TC-206G Analytical Chemistry Lab 0 0 2 2 1 25 *MC-108G Essence of Indian Knowledge 0 0 2 2 0 50 Tradition	PCC-TC-205G Preparatory Wet Processing 5 0 0 2 2 1 25 25 25 25 25 25 25 25 25 25 25 25 25	ESC-TT/TC/FAE - Computer Aided Textile 0 0 2 2 1 25 25 50

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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

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

					urs p week	er	Tot al		Exa	mination (Marl		ule	Dur atio
S N	Category	Course Code	Course Title	L	Т	P	Co nta ct hrs /we ek	Credi t	Inter nal Asses smen t	Exter nal Exa mina tion	Pr act ical	Tot al	n of Exa m (Ho urs)
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
		TO	OTAL 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

Director,

S.No.	Category	Course Code	Name of the Course	Preferred Semester
			Elective-I	
1.	DEC I	PEC-TC-302G	Chemical Processing of Unconventional Textile Materials	V
2.	PEC-I	PEC-TC-303G	Chemical Processing of Woollen Textiles	V
3.		PEC-TT/TC- 301G	Post Extrusion Operations	V
			Open Elective-I	
1.		OEC-TC-301G	Textile Design	V
2.	OEC-I	OEC-TC-302G	Textile Colour and Design Concept	V
3.		PEC-TT-303G	Waste Management & Pollution Control	V
118			Open Elective-II	
1.	OEC II	OEC-TT/TC- 303G	Garment Manufacturing Technology	V
2.	UEC-II	OEC-II OEC-TT/TC-	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	Category	Course Code	Course Title	Hou	573	r	Total Conta	Cr edi	Exan	nination (Mar	Schedu ks)	ıle	Dur atio n of
V				L	T	P	ct hrs/we ek	t	Inter nal Asses smen t	Exte rnal Exa min atio n	Prac tical	Tot al	Exa m (Ho urs)
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
,	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		1	25		25	50	3
8		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 2	1	25		25	50	
		1	OTAL 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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OF TEXTILE & SCIENCES, BHIWANI

S.No.	Category	Course Code	Name of the Course	Preferred Semester
			Elective-II	
1.		PEC-TC- 304G	Textile Chemical Testing	VI
2.	PEC-II	PEC-TC-	Textile Auxiliaries	VI
3.		305G PEC-TC- 306G	Chemistry of Dyes	VI
		3000	Open Elective-III	
1.	1227	OEC-TC- 306G	Garment Processing & Quality Control	VI
2.	OEC-III	PEC-TT-	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	Category	Course Code	Course Title		urs		Total Contact	Credit	Ex		on Schedu arks)		of Exam
No.				L	Т	P	hrs/wee		Class work	Theory	Practical	Total	(Hours)
1	Professional Elective	PEC-III	Elective-III	3	0	0	3	3	25	75	-	100	3
2	Courses Professional Elective	PEC-IV	Elective-IV	3	0	0	3	3	25	75		100	3
Hier	Courses Open Elective Courses	OEC-IV	Open Elective-IV	3	0	0	3	3	25	75	-	100	3
3	No. of the second secon	LC-TC-401G	Colour	1	0	3	4	2	25		25	50	3
4	Professional Core Course	LC-1C-401G	Measurement & CCM Lab										
5	Project/Internship	PROJ-TC-401G	Mill Practice	0	0	0	0	5	100		100	200	Viva
6	Project/Internship	PROJ-TC-402G	(Evaluation) Seminar	0	0	2	2	-		-	-	-	
		PROJ-TC-403G	Project Work	0	Q	4	4	2	100	-	-	100	Viva
7	Project/Internship	1103 10 1030	(Mid Term Evaluation)		/				,				
		TOTALCRI			1			18	300	225	125	650	

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S.No.	Category	Course Code	Name of the Course	Preferred Semester
			Elective-III	-un-
1		PEC-TC-401G	Colour Measurement & Computer Colour Matching	VII
1.	DEC III	PEC-TC-402G	Theory of Colouration of Textiles	VII
2.	PEC-III	PEC-TC-403G	Sustainable Textile Chemical Processing	VII
3.		FEC-1C-4030	Elective-IV	
		PEC-TC-404G	Developments in Textile Chemical Processing	VII
1.			Advance Chemical Processing	VII
2.	PEC-IV	PEC-TC-406G	Emerging trends in Chemical Processing of Textiles	VII
3.		PEC-TC-407G	Open Elective-IV	
			Production and Operation Management in Textile	VII
1.		OEC-TT/TC-401G	Production and Operation Wanagement in Texas	VII
2.	OEC-IV	OEC-TT/TC-402G	Finance, Material & Human Resource Management	
3.		OEC-TT/TC/FAE-403G	Fashion Retailing and Promotion	VII



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 Semes	ter
Hours per	T

Sr	Category	Course Code	Course Title	Course line		Hours per Total		Credit	E		on Schedu arks)		Duration of Exam
No.				L	T	P	hrs/week		Class	Theory	Practical	Total	(Hours)
1	Professional	PEC-V	Elective-V	3	0	0	3	3	25	75		100	3
1	Elective Courses	PEC-VI	Elective-VI	3	0	0	3	3	25	75		100	3
2	Professional Elective Courses		Open Elective-V	3	0	0	3	3	25	75		100	3
3	Open Elective Courses	OEC-V					4	2	200			200	Presentation
4	Project/Internship	PROJ-TC-402G	Seminar	0	0	4					100	200	Viva
5	Project/Internship	PROJ-TC-404G	Project Work (Final Evaluation)	0	0	12	12	6	100			700	7,7,0
		TOTAL	CREDITS			1		17	375	225	100	/00	

S.No.	Category	Course Code	Name of the Course	Preferred Semester	
			Elective-V		
1.		PEC-TC-408G	Process & Quality Control in Chemical Processing	VIII	
2.	PEC-V	PEC-TC-409G	Energy Conservation in Wet Processing	VIII	
3.	PEC-V	PEC-TC-410G	Textile Process House Management	VIII	
٥.		TEC-TC TIVE	Elective-VI		
	A	PEC-TC-411G	Environmental Aspects of Textile Processing	VIII	
1.		PEC-TC-411G	Eco-friendly Processing & Manufacturing of Textiles	VIII	
2.	PEC-VI	PEC-TC-412G	Non-Woven Technology	VIII	
3.		FEC-11/1C-403G	Open Elective-V		
		OEC-TT/TC-407G	Technical Textiles	VIII	
1.	OF CH	OEC-TT/TC/FAE-404G	High Performance Fibres	VIII	
2.	OEC-V	OEC-TC/FAE-405G	Sportswear Textiles and Accessories	VIII	

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M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION effective from 2019-20

Bachelor of Technology (Textile Technology)

Third Semester

Sr	Course Code	Course Title		urs j	Water Color	Total Contact	Credit	Exami	nation Sc	hedule (I		of Exam (Hours)
No.			L	Т	P	hrs/week		Class work	Theory	Practi cal	Total	
1	HSMC-EIE-201G	Entrepreneurial and Industrial Engineeering	3	0	0	3	3	25	75	100	100	3
2	PCC-TT/TC/FAE- 201G	Introduction to Textile Industrial Practices	3	0	0	3	3	25	75		100	3
3	PCC-TT/TC/FAE- 202G	Textile Raw Materials	3	0	0	3	3	25	75		100	3
4	PCC-TT-203G	Yarn Manufacture-I	3	0	0	3	3	25	75		100	3
5	PCC-TT-204G	Weaving Preparation	3	0	0	3	3	25	75		100	3
6	PCC-TT-205G	Fabric Manufacture-I	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-TT-203G	Spinning Lab-!	0	0	2	2	1	25		25	50	3
10	LC-TT-204G	Weaving Lab-I	0	0	2	2	1	25		25	50	3
11	*MC-105G	Indian Constitution	0	0	2	2	0	50			800	
		Total			-		22					1

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

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M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION effective from 2019-20

Bachelor of Technology (Textile Technology)

Fourth	Semester
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Sr	Course Code	Four Course Title	Ho	urs p week		Total Contact	Credit		(Marl	Schedule (s)		Duration of Exam
No.			L	T	P	hrs/week		Class work		Practical		
	2010	Applied Statistics & Operation Research	3	0	0	3	3	25	75		100	3
1	BSC-MATH-201G		M IS				1 2	25	75		100	3
2	ESC-TT/TC/FAE-	Computer Aided Textile Designing	2	0	2	3	3					3
3	201G PCC-TT/TC-206 G	Man-Made Fibre Production	3	0	0	3	3	25	75	4 1 1 1	100	3
3		Yarn Manufacture–II	3	0	0	3	3	25	75		100	3
4	PCC-TT-207 G	Y arn Manufacture—II					-	25	75		100	3
5	PCC-TT-208 G	Fabric Manufacture-II	3	0	0	3	3	23	13		510.00	
,	PGC TT 200 C	Fabric Structure	3	0	0	3	3	25	75		100	3
6	PCC-TT-209 G				2	2	1	25		25	50	3
7	ESC-TT/TC/FAE -	Computer Aided Textile Designing Lab	0	0	2	2	1			THE TEN		2
0	202G LC-TT-205G	Spinning Lab-II	0	0	2	2	1	25		25	50	3
8	LC-11-203G		0	0	2	2	1	25		25	50	3
9	LC-TT-206G	Weaving Lab-II	U	0						25	50	3
10	LC-TT-207G	Fabric Analysis Lab	0	0	2	2	1	25		23	30	
		Essence of Indian Knowledge Tradition	0	0	2	2	0	50				
11	*MC-108G	Essence of fildraff Knowledge Tradition					00			T	800	
		Total					22				300	

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 OF TEXTILE & SCIENCES, BHIWANI

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

				urs p week	er	Total		Exam	ination (Mar		ule	Dur atio
Sr. No.	Course Code	Course Title	L	Т	P	Cont act hrs/w eek	Credi t	Inter nal Asses smen t	Exte rnal Exa min atio n	Pr act ical	Tot al	n of Exa m (Ho urs)
1	PCC-TT-301G	Yarn Manufacture-III	3	0	0	3	3	25	75	-	100	3
2	PCC-TT-302G	Advanced Weaving Technology-I	3	0	0	3	3 .	25	75	-	100	3
3	PCC- TT/TC/FAE- 303G	Textile Testing	3	0	0	3	3	25	75	-	100	3
4	PEC-I	Elective-I	3	0	0	3	3	25	75	-	100	3
5	OEC-I	Open Elective-I	3	0	0	3	3	25	75	-	100	3
6	OEC-II	Open Elective-II	3	0	0	3	3	25	75	-	100	3
7	LC-TT-301G	Spinning Practical-III	0	0	2	2	1	25	-	25	50	3
8	LC-TT-302G	Weaving Practical-III	0	0	2	2	1	25	-	25	50	3
9	LC-TT/TC/FAE- 303G	Textile Testing Practical	0	0	2	2	1	25	-	25	50	3
10	LC-TT-304G	Wet Processing Lab.	0	0	2	2	1	25	-	25	50	3
		Total					22				800	

Note:

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

NTUTE OF TE

ELECTIVE-I

Sr. No.	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-I)	PEC-TT/TC-301G	Post Extrusion Operations
2 Professional Elective Course (PEC-I)		PEC-TT-302G	Total Productive Maintenance in Textile Industry
3	Professional Elective Course (PEC-I)	PEC-TT-303G	Waste Management & Pollution Control

OPEN ELECTIVE-I

Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-I)	OEC-TT-301G	Textile Chemical Processing
2	Open Elective Course (OEC-I)	OEC-TT-302G	Chemical Processing of Natural Fibres
3	Open Elective Course (OEC-I)	PEC-TC-302G	Chemical Processing of Unconventional Textile Materials

OPEN ELECTIVE-II

Sr. No.	Course Category	Course Code	Course Title				
1	Open Elective Course (OEC-II)	OEC-TT/TC-303G	Garment Manufacturing Technology				
2	Open Elective Course (OEC-II)	OEC-TT/TC-304G	Apparel Quality Evaluation and Standards				
3	Open Elective Course (OEC-II)	OEC-TT/TC-305G	Introduction to Fashion and Apparel Industries				

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

Sr No.	Course	Course Title	Hou weel	rs pei	r	Total Cont	Cre dit	Exar		on Scheo rks)	dule	Dur ation of
	Code		L	T	P	act hrs/w eek		Inte rnal Asse ssm ent	Ext ern al Ex am ina tio n	Prac tical	Tota l	Exa m (Hou rs)
1	PCC-TT- 303G	Unconventional Systems of Yarn Formation	3	0	0	3	3	25	75	-	100	3
2	PCC-TT- 304G	Advanced Weaving Technology-II	3	0	0	3	3	25	75	-	100	3
3	PEC-II	Elective-II	3	0	0	3	3	25	75	-	100	3
4	PEC-III	Elective-III	3	0	0	3	3	25	75	-	100	3
5	OEC-III	Open Elective-III	3	0	0	3	3	25	75	-	100	3
6	HSMC- TT/TC/FAE- 301G	Merchandising and Export Management	3	0	0	3	3	25	75	-	100	3
7	LC-TT- 305G	Spinning Practical-IV	0	0	2	2	1	25	-	25	50	3
8	LC-TT- 306G	Weaving Practical-IV	0	0	2	2	1	25	-	25	50	3
9	LC-TT- 307G	Pattern Making and Garment Construction Lab.	C	C) 2	2	1	25		25	50	3
		Total	Ţ				21				750	

NOTE: 1. At the end of 6th semester each student has to undergo Practical Training of 6 weeks in an Industry/Mill/ Professional Organization and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 7th Semester under the course 'Mill Practice' (Course Code PROJ-TT-401G).

2. Choose any one from Elective-II

3. Choose any one from Elective-III

4. Choose any one from Open Elective-III

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OF TEXTILE & SUIENOLO, BHIWANI

ELECTIVE-II

Sr. No	Course Category	Course Code	Course Title				
1	Professional Elective Course (PEC-II)	PEC-TT-304G	Mechanics of Textile Machinery				
2	Professional Elective Course (PEC-II)	PEC-TT-305G	Structure and Properties of Fibres				
3	Professional Elective Course (PEC-II)	PEC-TT-306G	Wool Technology				

ELECTIVE-III

Sr. No	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-III)	PEC-TT-307G	Engineering of Textile Structures
2	Professional Elective Course (PEC-III)	PEC-TT-308G	Modeling and Simulation of Fibrous Assemblies
3	Professional Elective Course (PEC-III)	PEC-TT-309G	Sustainable Textile Production

OPEN ELECTIVE-III

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Sr. No	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-III)	OEC-TT-306G	Advanced Textile Testing
2	Open Elective Course (OEC-III)	OEC-TT-307G	Statistics for Textile Engineers
3	Open Elective Course (OEC-III)	OEC-TT-308G	Total Quality Management and Six Sigma

M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION effective from 2021-22

Bachelor of Technology (Textile Technology)

Seventh Semester

Sr	Course Code	Course Title		ours week	7.5	Total Contact	Credit	Ex	Duration of Exam			
No.	Course Code	Course Title	L	T	P	hrs/week	Credit	Class work	Theory	Pract ical	Total	(Hours)
1	PEC-IV	Elective-IV	3	0	0	3	3	25	75	-	100	3
2	PEC-V	Elective-V	3	0	0	3	3	25	75		100	3
3	OEC-IV	Open Elective-IV	3	0	0	3	3	25	75	-	100	3
4	PEC-VI	Elective-VI	0	0	2	2	1	25		25	50	3
5	PROJ-TT-401G	Mill Practice	0	0	0	0	5	100	-	100	200	Viva
6	PROJ-TT-402G	Seminar	0	0	2	2	0	-	-	-	-	
7	PROJ-TT-403G	Project Work (Mid Term Evaluation)	0	0	4	4	2	100	-	- /	100	Viva
		Total					17				650	

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THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

ELECTIVE-IV

Sr. No.	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-IV)	PEC-TT-401G	Process Control in Spinning
2	Professional Elective Course (PEC-IV)	PEC-TT-402G	Process Control in Weaving
3	Professional Elective Course (PEC-IV)	PEC-TT-403G	Soft Computing in Textiles

ELECTIVE-V

Sr. No.	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-V)	PEC-TT-404G	Multi Fibre Spinning
2	Professional Elective Course (PEC-V)	PEC-TT/TC-405G	Nonwoven Technology
3	Professional Elective Course (PEC-V)	PEC-TT-406G	Clothing Science

OPEN ELECTIVE-IV

Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-IV)	OEC-TT/TC-401G	Production and Operation Management in Textile
2	Open Elective Course (OEC-IV)	OEC-TT/TC-402G	Finance, Material and Human Resource Management
3	Open Elective Course (OEC-IV)	OEC-TT/TC/FAE-403G	Fashion Retailing and Promotion

ELECTIVE-VI

Sr. No.	Course Category	Course Code	Course Title	THE TECHNOLOGICAL INSTITUTE
1	Professional Elective Course (PEC-VI)	LE-TT-401G	Spinning Practical – V	OF TEXTILE & SCIENCES, BHIWANI
2	Professional Elective Course (PEC-VI)	LE-TT-402G	Weaving Practical – V	
3	Professional Elective Course (PEC-VI)	LE-TT-403G	Soft Computing Practical	

M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION effective from 2021-22

Bachelor of Technology (Textile Technology)

Eighth	Semester
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	Course Code	Course Title	A MARKET ACRES	urs j week	1212/m /	Total	Credit	Exami	Duration of Exam			
Sr No.			L	T	P	Contact hrs/week	Credit	Class work	Theory	Practi cal	Total	(Hours)
1	PEC-VII	Elective-VII	3	0	0	3	3	25	75	-	100	3
2	OEC-V	Open Elective-V	3	0	0	3	3	25	75		100	3
3	OEC-VI	Open Elective-VI	3	0	0	3	- 3	25	75		100	3
-	PROJ-TT-402G	Seminar	0	0	2	2	2	200	-	-	200	
4		Project Work	0	0	12	12	6	100		100	200	Viva
5	PROJ-TT-404G	Total					17				700	



ELECTIVE-VII

r. o.	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-VII)	PEC-TT-407G	Textile Costing
	Professional Elective Course (PEC-VII)	PEC-TT-408G	Textile Composites
	Professional Elective Course (PEC-VII)	PEC-TT-409G	Mill Organization and Economics of Textile Processes

OPEN ELECTIVE-V

Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-V)	OEC-TT/TC/FAE-404G	High Performance Fibres
2	Open Elective Course (OEC-V)	OEC-TT-405G	Protective Clothing
3	Open Elective Course (OEC-V)	OEC-TT-406G	Smart and Functional Clothing

OPEN ELECTIVE-VI

Sr.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-VI)	OEC-TT/TC-407G	Technical Textiles
2	Open Elective Course	OEC-TT-408G	Industrial Textiles
3	(OEC-VI) Open Elective Course (OEC-VI)	OEC-TT-409G	Medical and Geo Textiles

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M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION effective from 2019-20 Bachelor of Technology (Fashion and Apparel Engineering) Third Semester

Sr	Course Code	Course Title	Но	urs p	er	Total Contact	Credit	Exami	nation Sc			Duration of Exam
No.			L	T	P	hrs/week		Class work	Theory	Practi cal	Total	(Hours)
1	BSC-MATH- 201G	Applied Statistics and Operation Research	3	0	0	3	3	25	75		100	3
2	PCC- TT/TC/FAE- 201G	Introduction to Textile Industrial Practices	3	0	0	3	3	25	75		100	3
3	PCC- TT/TC/FAE- 202G	Textile Raw Materials	3	0	0	3	3	25	75		100	3
4	PCC-TC/FAE- 203G	Yarn Formation	3	0	0	3	3	25	75		100	3
5	PCC-FAE-205G	Traditional Indian Textiles and Embroideries	3	0	0	3	3	25	75	<u>-</u>		
6	PCC-FAE-206G	Apparel Production-l	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-	Yarn Formation Lab	0	0	2	2	1	25		25	50	3
10	LC-FAE-204G	Traditional Indian Textiles and Embroideries Lab	0	0	2	2	1	25		25	50	3
11	*MC-105G	Indian Constitution	0	0	2	2	0	50			lanes.	
				TO	TAL (CREDITS	22		1		800	—

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

class work.

M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION effective from 2019-20 Bachelor of Technology (Fashion and Apparel Engineering)

1	9	121		
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1	-01	IIII	Selli	COLCI
		41 44 .		

Sr	Course Code	Course Title	Hou	irs p	er 🏻	ster otal contact	Credit	Exam	(Mai	rks)		Duration of Exam
No.			L	T		hrs/wee k		Class	Theory	Practical		(Hours)
		. Land Industrial	3	0	0	3	3	25	75		100	. 3
1	HSMC-EIE- E 201G	Entrepreneurial and Industrial Engineering					-				100	3
		Computer Aided Textile	3	0	0	3	3	25	75		100	3
2	ESC- TT/TC/FAE-	Designing							75		100	3
	201G PCC-TC/FAE-	Fabric Formation	3	0	0	3	3	25	75			
3	204 G	I distance	3	0	0	3	3	25	75		100	3
4	PCC-FAE-207	The second secon		0	0	3	3	25	75		100	3
5	PCC-FAE-208	Colour and Design Concepts	3	0	0	311 10.		05	75		100	3
6	G PCC-FAE-209	Apparel Production-II	3	0	C	3	3	25	/3			
0	G	Computer Aided Textile	0	0	2	2	1	25		25	50	
7	ESC-TT/TC/ FAE -202G	Designing Lab	0	0	1	2 2	1	25		25	50	3
8	LC-TC/FAE- 204G	Fabric Formation Lab				2 2	1	25		25	50	3
9	LC-FAE-205G	Colour and Design Lab	0	0				25		25	50) 3
10	LC-FAE-206G	Garment Manufacturing La	b 0	0		2 2	1	25				
-		Essence of Indian Knowledge Tradition	e c	0		2 2	0	50		1	M	New
11	108G		1	1	1	to under			-	1	180	00
		AL CREDITS		PART .			22			-5 AIG .	MOOK	in an

Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit THE TECHNOLOGICAL INSTITUTE typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th TEXTILE & SCIENCES, BHIWANI Semester.

*MC-108G is a mandatory near and its analysis of the seminary statement of the seminary seminar

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



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

r 0.	Course Code	Course Title	Hour we	s p	er		Cont	Credi t		Exam	ination (Mark			Dura tion
			L	T	P	a	hrs/w eek		A	ntern al Assess ment	Exter nal Exam inatio n	Prac tical	Tota 1	of Exam (Hou rs)
1	PCC-FAE- 301G	Industrial Engineering in Apparel Industries	3	0	0		3	3		25	75		100	3
2	PCC-FAE- 302G	Garment Production Machine & equipment	3	0	0		3	3		25	75		100	3
3	PCC- TT/TC/FAE- 303G	Textile Testing	3	0	()	3	3		25	75		100	3
4	•	Elective-I	3	0		0	3	3		25	75		100	3
5	-	Open Elective-I	3	0)	0	3	3		25	75		100	
6		Open Elective-II	3	(0	0	3	3		25	75		100	3
7	LC-FAE-301G	Woven and Knit Design Lab	0		0	2	2	1		25		25		
8	LC-FAE-302G	Pattern Making and Apparel Construction Lab-l	0		0	2	2	1		25		2:		
9	LC- TT/TC/FAE- 303G	Textile Testing Practical	C)	0	2	2	1		25		2		
1	0 LC-FAE-304G	- Apparel Design Lab	(0	0	2	2 2	1		25		2	5 5	
-		Total		F	1001100			2	2		- 11 ×		80	00

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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ELECTIVE-I

Sr. No.	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-I)	PEC-FAE-301G	Digital Fabric design and development
2	Professional Elective Course (PEC-I)	PEC-FAE-302G	Woven and Knit Design
3	Professional Elective Course (PEC-I)	PEC-FAE-303G	Textile Coloration Techniques

OPEN ELECTIVE-I

Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-I)	OEC-FAE-301G	Knitting & Knitwear Technology
2	Open Elective Course (OEC-I)	OEC-FAE-302G	Soft Skill and Interpersonal Communication
3	Open Elective Course (OEC-I)	OEC-FAE-303G	Organizational Behavior & HRM

OPEN ELECTIVE-II

OLLIN	EBBUTTE		
Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-II)	OEC-FAE-304G	Textile & Garment Design by Surface Ornamentation
2	Open Elective Course (OEC-II)	OEC-FAE-305G	Introduction to Fashion and Apparel Industries
3	Open Elective Course (OEC-II)	OEC-FAE-306G	Evolution of Clothing and Fashion

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

r lo.	Course Code	Course Title	Hour			Total Contact	Credit	Examinat (Marks)	ion S	chedule		Durati on
10.		*	L	T	P	hrs/wee k		Internal Assessme nt	rnal		T00 T00 T00 T00 T00	of Exam (Hours
1	PCC-FAE-303G	Apparel Production-III	3	0	0	3	3	25	75		100	3
2	PCC-FAE-304G	Automation in Garment Industry	3	0	0	3	3	25	75		100	3
3	-	Elective-II	3	0	0	3	3	25	75		100	3
4		Open Elective-III	3	0	0	3	3	25	75		100	3
5	+	Open Elective-IV	3	0	0	5	3	25	75		100	3
6	HSMC-TT/TC/FAE- 301G	Merchandising and Export Management	3	0	0	3	3	25	75		100	3
7	LC-FAE-305G	Apparel Draping and Grading Lab	0	0	2	2	1	25		25	50	3
8	LC-FAE-306G	Textile Chemical Processing Lab	0	0	2	2	1	25		25	50	3
9	LC-FAE-307G	Apparel Designing by CAD Lab	0	0	2	2	1	25		25	50	3
10	LC-FAE-308G	Pattern Making and Apparel Construction Lab-II	0	0	2	2 2	1	25		25	50	3
		Total					22		7		800)

NOTE:

- 1. At the end of 6th semester each student has to undergo Practical Training of 6 weeks in an Industry/Export/ Professional Organization and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 7th Semester under the course 'Garment Industry Practice' (Course Code PROJ-FAE-401G).
- 2. Choose any one from Elective-II
- 3. Choose any one from Open Elective-III

4. Choose any one from Open Elective-IV

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ELECTIVE-II

Sr. No.	Course Category	Course Code	Course Title
1	Professional Elective Course (PEC-II)	PEC-FAE-304G	Preparatory Wet Processing and Dyeing
2	Professional Elective Course (PEC-II)	PEC-FAE-305G	Visual Merchandising
3	Professional Elective Course (PEC-II)	PEC-FAE-306G	Material Studies

OPEN ELECTIVE-III

Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-III)	OEC-FAE-307G	Indian Colored Textile Heritage
2	Open Elective Course (OEC-III)	OEC-FAE-308G	Fabric Structure and Analysis
3	Open Elective Course (OEC-III)	OEC-FAE-309G	Specialty Yarns and Texturing

OPEN ELECTIVE-IV

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Sr. No.	Course Category	Course Code	Course Title
1	Open Elective Course (OEC-IV)	OEC-FAE-310G	Fashion Accessories
2	Open Elective Course (OEC-IV)	OEC-FAE-311G	Jewellry Design & Development
3	Open Elective Course (OEC-IV)	OEC-FAE-312G	Structure and Properties of Textiles

M.D. UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION effective from 2020-21

Bachelor of Technology (Fashion and Apparel Engineering)

Seventh Semester

Sr No.	Course Code	Course Title	Hours per week			Total contact	Credit	Exam	Duration of Exam			
			L	Т	P	hrs/week		Class work	Theory	Practical	Total	(Hours)
1.	PEC-FAE-401-403G	Elective-III	3	0	0	3	3	25	75		100	3
2	PEC-FAE-404-406G	Elective-IV	3	0	0	3	3	25	75		100	3
3	OEC-FAE-401-403G	Open Elective-V	3	0	0	3	3	25	75		100	3
4	PROJ-FAE-401G	Industrial Internship (Evaluation)	0	0	0	0	5	100	-	100	200	Viva
5	PROJ-FAE-402G	Seminar	0	0	4	4	2	200		-	200	-
6	PROJ-FAE-403G	Project Work (Mid Term Evaluation)	0	0	4	4	2	100	•		100	Viva
ten Es		Total		1			18				800	

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THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

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Sr No.	Category	Course Code	Course Title
		PEC-III	
1.		PEC-FAE-401G	Robotics and Artificial Intelligence in Apparel Industry
2.	Professional Elective Course-III	PEC-FAE-402G	Printing and Finishing of Textile and Apparel
3.		PEC-FAE-403G	Digital Motif Designing and Development
		PEC-IV	
1.		PEC-FAE-404G	Textile and Apparel Costing
2.	Professional Elective Course-IV	PEC-FAE-405G	Clothing Comfort Science
3.		PEC-FAE-406G	Research Methodology and Quality control
		OEC-V	
1.		OEC-FAE-401G	Fashion Selection
2.	Open Elective Course-V	OEC-FAE-402G	Supply Chain Management
3.		OEC-TT/TC/FAE-403G	Fashion Retailing and Promotion

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M.D. UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION effective from 2020-21

Bachelor of Technology (Fashion and Apparel Engineering)

Eighth Semester

Sr No.	Course Code	Course Title	Hours per week			Total Contact	Credit	Exan	Duration of Exam			
140.			L	T	P	hrs/week		Class work	Theory	Practical	Total	(Hours)
	PEC-FAE-407-409G	Elective-V	3	0	0	3	3.	25	75		100	3
2	PEC-FAE-410-412G	Elective-VI	3	0	0	3	3	25	75		100	3
3	OEC-FAE-404-406G	Open Elective-VI	3	0	0	3	3	25	75		100	3
5	PROJ-FAE-404G	Project Work (Final Evaluation)	0	0	12	12	6	100		100	200	Viva
	*						15				500	

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THE TECHNOLOGICAL INSTITUTE

OFTEXTILE & SCIENCES, BHIWANI



Sr No.	Category	Course Code	Course Title
		PEC-V	
1.		PEC-FAE-407G	Sustainable Fashion
2.	Professional Elective Course -V	PEC-FAE-408G	Leather Apparel & Accessory Design
3.		PEC-FAE-409G	Digital Apparel & Portfolio Presentation
		PEC-VI	
1.		PEC-FAE-410G	Advance Apparel Construction Techniques
2.	Professional Elective Course -VI	PEC-FAE-411G	Home Textiles
3.		PEC-FAE-412G	Quilt Design and Development
		PEC-VI	
1.		OEC-TT/TC/FAE-404G	High Performance Fibre
2.	Open Elective Course-VI	OEC-TC/FAE-405G	Sportswear Textiles & Accessories
3.		OEC-FAE-406G	High Tech Garments

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B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme of Studies/Examination w.e.f. 2019-20

Semester-3

			Hour	s per w	eek	Tot al		Exa	minatio (Ma	n Scheorks)	lule	Dur atio n of Exa m (Ho urs)
Sr. No.	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	Mar k of Clas s wor k	The ory	Pra ctic al	Tot al	
1	PCC-CSE-201G	Database Management Systems	3	0	0	3	3	25	75		100	3
2	PCC-CSE-203G	Data Structures & Algorithms	3	0	0	3	3	25	75		100	3
3	ESC-CSE-205G	Digital Electronics	3	0	0	3	3	25	75		100	3
4	PCC-CSE-207G	Python Programming	3	0	0	3	3	25	75		100	3
5	BSC-MATH- 203G	Mathematics - III (Multivariable Calculus and Differential Equations)	2	0	0	2	2	25	75		100	3
6	HSMC-01G	Economics for Engineers	3	0	0	3	3	25	75		100	3
7	LC-CSE-209G	Database Management Systems LAB	0	0	3	3	1.5	25		25	50	3
8	LC-ESC-211G	Digital Electronics	0	0	3	3	1.5	25		25	50	3
9	LC-CSE-213G	Data Structures & Algorithms LAB Using C	0	0	3	3	1.5	5 25	8 8	25	50	-
10	LC-CSE-215G	Python Programming LAB	0	0	3	3	1.3	5 25		25	50	
						Tota	il 23	3			800	

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Director,

B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme of Studies/Examination w.e.f. 2019-20

Semester-4

			Hour	s per w	eek	Tot al		Exar	minatio (Ma	n Sched rks)	lule	Dur
Sr. No.	Course Code	Course Title	L	Т	P	Con tact Hrs. per wee k	Cre dit	Mar k of Clas s wor k	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	PCC-CSE-202G	Discrete Mathematics	3	1	0	3	4	25	75		100	3
2	PCC-CSE-204G	Computer Organization&Archi tecture	3	0	0	3	3	25	75		100	3
3	PCC-CSE-206G	OperatingSystem	3	0	0	3	3	25	75		100	3
4	PCC-CSE-208G	ObjectOriented Programming	3	0	0	3	3.	25	75		100	3
5	HSMC-02G	Organizational Behaviour	3	0	0	3	3	25	75		100	3
6	*MC-106G	Environmental Sciences	3	0	1	4	0		-	-	-	3
7	PCC-CSE-210G	Web Technologies	3	0	0	3	3	25	75		100	3
8	LC-CSE-212G	OperatingSystem LAB	0	0	3	3	1.5	25		25	50	3
9	LC-CSE-214G	ObjectOriented Programming LAB Using C++	0	0	3	3	1.5	25		25	50	3
10.	LC-CSE-216G	Web Technologies	0	0	2	2	1	25		25	50	3
						Total	23				750	,

*MC-106G is a mandatory non -credit course in which the students will be required passing marks in theory.

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.

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Scheme of Studies and Examination B.TECH (Information Technology) - 5th Semester w.e.f. 2020-21

	Category		Course Title	Hour	s per w	eek	Tot al		Examination S (Marks				
Sr. No.		Course Code		L	Т	P	Con tact Hrs. Per wee k	Cre dit	Inte rnal Ass ess men t	Ext ern al Exa min atio n	Pra ctic al	Tot al	n of Ea m (Ho urs)
Į	Engineering Science Course	ESC-IT- 301G	Signals and Systems	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-IT- 303G	Web Technology	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-CSE- 307G	Design & Analysis of Algorithms (Common with CSE)	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC-CSE- 309G	Programming in Java (Common with CSE)	3	0	0	3	3	25	75		100	3
5	Professional Elective Course	Refer to Annexure I	Elective –I	3	0	0	3	3	25	75		100	3
6	Professional Core Course	LC-IT-317G	Web Technology Lab	0	0	3	3	1.5	25		25	50	3
7	Professional Core Course	LC-IT-319G	Design & Analysis of Algorithms Lab.	0	0	3	3	1.5	25		25	50	3
8	Professional Core Course	LC-IT-321G	IT Workshop (MATLAB/SCILA B)	0	0	3	3	2	25		25	50	3
9	Professional Core Course	LC- CSE327G	Programming in Java Lab (Common with CSE)	0	0	3	3	1.5	25		25	50	3
10	Training	PT-IT329G	Practical Training –		-	-	-	-	-	-	*	Refer N	lote 1
	Т	otal Credits/Ma	rks					21.5				700	

Note:

TUTE OF

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Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F. THE TECHNOLOGICAL INSTITUTE

Director,

OF TEXTILE & SCIENCES, BHIWANI

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

	Category	Course Code	Course Title	Hour	s per w	eek	Tot al		Examination Schedule (Marks)				Dur atio
Sr. No.				L	т	P	Con tact Hrs. Per wee k	Cre dit	Inte rnal Ass ess men t	Ext ern al Exa min atio n	Pra ctic al	Tot al	n of Ea m (Ho urs)
1	Professional Core Course	PCC-CSE-304G	Artificial Intelligence (Common with CSE)	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-CSE-303G	Computer Network (Common with CSE)	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-CSE-306G	Advanced Java (Common with CSE)	3	0	0	3	3	25	75		100	3
4	Engineering Science Course	ESC-CSE-308G	Mobile and Wireless Communication (Common with CSE)	3	0	0	3	3	25	75		100	.3
5	Professional Elective Course	Refer to Annexure II	Elective-II	3	0	0	3	3	25	75		100	3
6	Professional Elective Course	Refer to Annexure III	Elective-III	3	0	0	3	. 3	25	75		100	3
7	Project	PROJ-CSE-322G	Project-I	0	0	4	4	2	25		25	50	4
8	Professional Core Course	LC-CSE-326G	Artificial Intelligence Lab using Python (Common with CSE)	0	0	3	3	1.5	25		25	50	3
9	Professional Core Course	LC-CSE-323G	Computer Network LAB (Common with CSE)	0	0	3	3	1.5	25		25	50	3
10	Mandatory Courses	MC-317G	Constitution of India	2	0	0	2						3
		Total Credits/Marl	KS					23				750	

Note:

Each student has to undergo practical training of 6 weeks during summer vacation after 6th spinester and its

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evaluation shall be carried out in 7th Semester.

Annexure I

Elective -I (Professional Elective Course)

- 1. PEC-CSE-311G:Software Engineering
- 2. PEC-CSE-313G: System Programming and System Administration
- 3. PEC-CSE-315G :Digital Image Processing

Annexure II

Elective -II (Professional Elective Course)

- 1. PEC-CSE-310G:Advanced Database Management System
- 2. PEC-CSE-312G :Mobile Application Development
 - 3. PEC-CSE-314G:Computer Graphics

Annexure III

Elective -III (Professional Elective Course)

PEC-IT-302G: Information Retrieval
 PEC-IT-304G: Soft Computing
 PEC-IT-306G: Internet of things

IQAC COORDINATO Director,

B.Tech (Computer Science and Information Technology) common with B.Tech (Information Technology) Scheme of Studies/Examination Semester 7

	Category			Hou		per	Total Contac t Hrs. per week	Cre dit	Examination Schedule (Marks)				Dur
Sr. No.		Course Code		L	т	P			Inte rnal Ass ess me nt	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	Professional Core Course	PCC-IT-401G	Neural Networks	3	0	0	3	3	25	75		100	3
2	Professional Elective Course	Refer to Annexure IV	Elective-IV	3	0	0	3	3	25	75		100	3
3	Professional Elective Course	Refer to Annexure V	Elective-V	3	0	0	3	3	25	75		100	3
4	Open Elective Course	Refer to Annexure OEC-I	Open Elective-I	3	0	0	3	3	25	75		100	3
5	Professional Core Course	LC-IT-419 G	Neural Networks Lab	0	0	2	2	1	25	-	25	50	3
6	Project	PROJ-IT-422G	Project-II	0	0	6	6	3	50	-	50	100	3
7	Professional Core Course	PT-IT-423G	Practical Training-	0	0	0	1		-	-	-	-	-
		TOTAL CREDIT						16	175	300	75	550	

NOTE:

1. Practical Training II: The evaluation of Practical Training-II will be based on seminar, vivavoce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.

2. Choose one subject from each Elective –IV, Elective –V and open Elective –I List of elective subjects is attached as annexures.

TUTE OF

IQAC COORDINATOR Director,

B.Tech (Computer Science and Information Technology) common with B.Tech (Information Technology) Scheme of Studies/Examination

Semester 8

	Category		Course Title	Hou	rs per	week	Tot al	Cre dit	Examination Schedule (Marks)				Dur
Sr. No.		Course Code		L	т	P	Con tact Hrs. per wee k		Inte rnal Ass ess me nt	The ory	Pra ctic al	Tot al	n of Exa m (Ho urs)
1	Professional Core Course	PCC-IT-402G	R Programming	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-IT-403G	Big Data Analysis	3	0	0	3	3	25	75		100	3
3	Open Elective Course	Refer to Annexure OEC- II	Open Elective-II	3	0	0	3	3	25	75		100	3
4	Professional Core Course	LC-IT-420G	R Programming Lab	3	0	0	3	3	25	75		100	3
5	Professional Core Course	LC-IŤ-4212G	Big Data Analysis Lab	0	0	2	2	1	25		25	50	3
6	Project	PROJ-IT-424G	Project-III	0	0	8	4	4	50		50	100	3
****		TOTAL CREDIT		-				17	175	300	75	550	

NOTE:

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* BHIWAN

Choose one subject from open Elective - II. List of elective subjects is attached as annexures.

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Annexure IV

1. PEC-IT-404G: High Speed Networks

2. PEC-IT-405G: Advanced Computer Architecture

3. PEC-IT-406G: Soft Computing

4. PEC-IT-407G: Software Project Management

Annexure V

1. PEC-IT-408G: Cloud Computing

2. PEC-IT-409G: Analytical Instrumentation

3. PEC-IT-410G: Cyber Security Threats

Annexure OEC-I

1. OEC-IT-411G: Robotics

2. OEC-IT-414G: Disaster Management

3. HSMC-418G: Human Resource Management

4.OEC-IT-415G:Game Theory in Engineering Application

Annexure OEC-II

1. PEC-CS-412G: Cyber Law & Ethics

2. OEC-ECE-413G: Wireless Communication & Adhoc Network

3. OEC-CS-416G: Renewable Energy System

4. OEC-CS- 417G: Knowledge Management

5. OEC-CS-418G: Managing Innovation & Entrepreneurship

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SCHEME OF EXAMINATION

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SYLLABI

of

BACHELOR OF BUSINESS ADMINISTRATION



FROM THE ACADEMIC SESSION 2014-15

MAHARSHI DAYANAND UNIVERSITY ROHTAK (HARYANA)

Session 2014-15



Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

FIRST YEAR

First Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN101	Business Organization	80	20	- 1	100
BBAN102	Business Mathematics	80	20	-	100
BBAN103	Financial Accounting	80	20	-	100
BBAN104	Computer Fundamentals	50		50	100
BBAN105	Business Communication	80	20	-	100
BBAN106	Micro-economics for Business Decisions	80	20	-	100
	TOTAL				600

Second Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN201	Principles of Management	80	20	-	100
BBAN202	Macro-economic Analysis and Policy	80	20	==1	100
BBAN203	Company accounts	80	20	-	100
BBAN204	Computer Applications in Management	50		50	100
BBAN205	Organizational Behavior	80	20	-	100
BBAN206	Business Statistics	80	20	-	100
	TOTAL				600

Session 2014-15

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWAM

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	- 1	100
BBAN302	Marketing Management	80	20		100
BBAN303	Capital Markets	80	20		100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	7 -1	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20		100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50		50	100
BBAN406	Human Rights and Values	80	20		100
	TOTAL	11			600

Session 2014

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Paper No	Title of Paper(s)	Marks	Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20		100
BBAN506	Cyber Security	80	20		100
BBAN507	Summer Training Report	100			100
THE	TOTAL	d all x			700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20		100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20		100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50		50	100
BBAN606	Project Report	100			100
BBAN607	Comprehensive Viva- voce	100			100
	TOTAL			1.0	700

Session 2014-15

STUTE OF TEXTURE OF CORDINATOR COORDINATOR COORDINATOR STERVES

Director,

THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

NOTE:

- 1 The duration of the end term examination shall be 3 hours
- 2 Immediately after the completion of the IV semester examination, the students shall proceed for their Summer Training of 4 weeks duration. The Summer Training Reports prepared after the completion of shall be assessed in the V semester as a compulsory paper.

IQAC COORDINATOR PROPERTY SANDANAMENT SAND

Director,

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F-Scheme

MAHARISHI DAYANAND UNIVERSITY ROHTAK

SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS SEMESTER-I (Common For All Branches) M.D.UNIVERSITY, ROHTAK B. Tech. Ist Year-2009-10

M.D.UNIVERSITY, ROHTAK

SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS B.Tech. Ist Year-2009-10

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1.02 F Skalls in English Skalls in English	Course No.	rse	Course	Tea	Teaching Schedule T P Tota	Sche	dule Total	Marks of class	Exam Theory	Exam. Schedule	Marks	Exam.	
HUM-112F Communication 3 Stalls in English OR BTT-102F Basics of 3 1 Botechnology 3 1 PHY-101F Physics-II 3 1 ECE-101F Basics of 3 0 CH-101F Engineering 3 1 COR-101F Electrical 3 1 COR-101F Engineering 0 COR ME-103 ERGENOR 1 COR-103F ERGENOR					10	-	-	20	100	,	150	6	
OR BTT- 102 F Basics of 3 1 I Basics of Brocehoology MATH-102 F Mathematics-II 4 1 I PHY-101F Physics-II 3 1 ECE-101F Engineering 3 I Chemistry CR-101F Engineering 3 I Computer & Programming in C Chemistry CSE-101F Engineering 3 I Computer & Programming in C Chemistry OR ME-101F Electrical 3 I Computer & Programming in C Chemistry A ME-103 Engineering 0 OR A EE-103F Electrical 0 OR A EE-103F Electrical 0 OR A EE-105F Electrical 0 OR A EE-105F Electrical 0 OR A HE-107F Basics of Moch 0 OR A HE-107F Basics of Moch 0 Engineering C General C Chemistry Lab OR A ME-107F Electrical 0 OR A ME-107F Electrical 0 OR A ME-107F Electrical 0 OR A ME-107F General - I Chemistry Lab OR A ME-107F Electrical 1 OR A ME-107F Electrical 1 OR B ME-107F Electrical 1 OR A ME-107F Basics of Moch 0 Elega Lab OR A ME-107F Basics of Moch 0 Elega Lab OR A MI-107F Electrical I Notation Elega Lab OR A Studies Invitormental I National Invitor	H	A-102F	Communication Skills in English	9	-0	2	,	Ę					
BTT-102 F Basics of Biocechology			OR										
MATH-102F Mathematics-II 4 1	ВТ	- 102 F	Basics of Biotechnology	m	-	0	7	90	100		150	m	
PHY-101F Physics-II 3 1	MA	TH-102F	Mathematics-II	4	-	0	9	50	001	×.	150	6	
CCF-101F Basics of 3 0	PH	7-101F	Physics-II	m	-	0	4	90	100		150	m	
OR CH-101F Engineering 3 1 Chemistry CSE-101F Pundamentals of 3 1 Computer & Programming in C OR ME-101F Electrical 3 1 Technology	EC	E-101F	Basics of Electronics	er,	0	0	m	20	100		150	en.	
CH-101F Engineering 3 1 CSE-101F Programming in Computer & CE-101F Physics Lab-II 0 0 R A CE-103F Engancying 0 OR A CE-103F Engineering 0 OR A EE-103F Electrical 0 OR A EE-103F Electrical 0 OR A HI-107F General 0 OR A MIE-107F General 0 OR A MIE-107F General 1 OR A GES 100F General 1 OR A GES 100F Environmental 1 OR Studies Invitonmental 1 OR Studies Invitonmental 1 OR Total 1 OR			OR										
CSF-101F Fundamentals of 3 Computer & Programming in C Computer & Programming in C OR Computer & Programming in C OR Computer & Programming in C OR Computer & Comput	CH	-101F	Engineering Chemistry	en:	7	0	7	90	100	e	150	m i	
OR EE-10JF Electrical 3 1 Technology 4 0 0 0 0 0 0 0 0 0	S	E-tolF	Fundamentals of Computer & Programming in C	er.	_	0	7	30	001	3.	150	ю	
He-101F Electrical 3			OR										
ME-101F Basics of 4 or Mechanical Engineering OR OR A Drawing PHY-104F Physics Lab-II 0 or ECE-103 F Basics of OR CK-103F Engineering OR CK-103F Engineering OR CK-103F Erectrical OR CK-103F Erectrical OR CK-103F Erectrical OR CK-103F Erectrical OR OR OR CK-103F Erectrical OR OR OR CK-103F Erectrical OR OR CK-103F Erectrical OR C	EE	-101F	Electrical Technology	m	481	0	₹	50	001	Č.	120	m	
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ME-103 Engg Graphics 1 & Drawing PHY-104F Physics Lab-II 0 ECE-103F Basics of 0 R CH-103F Engineering 0 R CH-103F FCPC Lab 0 R EE-103F Electrical 0 R EE-103F Generical 0 R EE-103F Generical 0 R EC-103F Generical 0 R EC-103F Generical 0 R EC-103F Generical 0 R EC-103F Generical 0 R Technology Lab 0 R AII-103F Workshop 2 R A GES 106F Environmental II Stephology 1 Stephology 1 R A GES 106F Environmental II			OR										
PHY-104F Physics Lab-II 0	N	E-103	Engg. Graphics & Drawing	(TE)	C	m	7	20		100	150	7	
ECE-103 F Basks of	E.	4Y-104F	Physics Lab-II	¢	0	2	2	25		25	20	en i	
OR CH-103F Engineering 0 CSE-105 F PCPCLab 0 OR EE-103F Electrical 0 GP-102F General 0 GP-102F General 0 NE-107F Basics of Mech 0 ARE-107F Basics of Mech 0 OR NIE-105 F Workshop 2 Nie-105 F Workshop 2 Nie-105 F Workshop 1 Statistics 10048 Technology 1 Statistics 10049 Total 10049	ш.	CE-103 F	Basics of Electronics Lab	0	0	01	2	25		25	8	m	
CH-103F Enginecring 0 CSE-103F FCPC Lab 0 OR EE-103F Electrical 0 Technology Lab 107F Gasteral - Proficiency NE-107F Basics of Mech 0 AIE-107F Basics of Mech 0 AIE-105 F Workshop 2 AIE-105 F Workshop 2 Suddes Studes Studes Studes 1 1919			OR										
CSE-103 F FCPC Lab 0 EE-103 F Eketrical 0 Tochanology, Lab General - Porficiency Profession O ME-107 F Basics of Mach 0 RE-107 F Basics of Mach 0 AlE-105 F Workshop 2 AlE-105 F Workshop 2 Ale-105 F Workshop 2 Ale-105 F Workshop 2 Total Studies 19449	0	H-103F	Engineering Chemistry Lab	0	0		2	25	£	25	20	m e	
OR EE-103F Eketrical 0 Technology Lab GP-102F General - Proficiency ME-107F Basics of Moch 0 Engs. Lab OR NIE-103 F Workshop 2 Technology 2 Total Studies - 19449	O	SE-103 F	FCPC Lab	О	0		2	25	. (8 /	_	
EE-103F General Technology, Lab GP-102F General Proficiency ME-107F Basics of Mech OR Eng. Lab OR NIE-105 F Workshop Technology GES 106F Environmental 1 Studies Total			OR	0	0		-	25	P		50	(5)	
GP-102F General - Proficiency ME-107F Basics of Moch 0 Eng. Lab OR NIE-105 F Workshop 2 Technology GES 106F Environmental 1 Studies Total	ш	E-103F	Electrical Technology Lab			4	1		2		0.5)	
ME-107F Basics of Moch 0 OR OR MIE-105 F Workshop 2 Technology GES 106F Environmental 1 Total Studies	U	jP-102F	General Proficiency	2.4		2	ect	Jr, 50	40100	TSNI T	TUE		
OR NIE-105 F Workstop 2 Technology GES 106F Environmental 1 Sudies Total 1979	6	1E-107F	Basics of Mech. Engg. Lab			王	正住	TONE S	2150	CES, Br	INAN		
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GES 106F Environmental 1 0 Studies Total 1949 45	2	VIE-105 F	Workshop Technology	7	7	5	4	8		The state of the s			
St 61%1		SES 106F	Environmental Studies	TR.	3		m /	•					
		Total		DE TON	61%		811 400/425	425 600/500	*	100/200 110071125	125		

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION B.Tech II YEAR (ELECTRONICS & INSTRUMENTATION ENGINEERING) SEMESTER III

'F' Scheme effective from 2010-11

Course No.	Course Title	Teac	hing	Sche	edule	Marks	Examina	ation	Total	Duration
		L	T	P	Total	of Class Work	Theory	Practica 1	Marks	of Exam
HUM-201-F OR MATH-201- F	ENGG. ECONOMICS OR MATHEMATICS - III	3	1 2	-	5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100		150	3
EE-201-F	ELECTRONICS DEVICES & CIRCUITS(ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100		150	3
EE-205-F	ELECTROMECHANICAL ENERGY CONVERSION (ECE,EI,IC)	3	1	-	4	50	100		150	3
CSE-201-F	DATA STRUCTURE USING ' C' (ECE,EI,CSE,IT)	3	1	-	4	50	100	-	150	3
EE-221-F	ELECTRONIC WORKSHOP, PCB DESIGN & CIRCUIT LAB(ECE,EI)	-	-	2	2	25		25	50	3 .
EE-223-F	NETWORK THEORY LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25		25	50	3
EE-225-F	ELETRICAL WORKSHOP & MACHINE LAB (ECE,EI)	-	-	3	3	50	-	50	100	3
CSE-205-F	DATA STRUCTURE USING 'C' Lab (ECE,EI,CSE,IT)		-	2	2	25		25	50	3
N =	TOTAL	18	7	9	33 Or 34	425	600	125	1150	

NOTE:

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1.Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

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M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION BE. II YEAR (ELECTRONICS & INSTRUMENTATION ENGINEERING) SEMESTER – IV

Modified 'F' Scheme effective from 2009-10

Course No.	Course Title	Teac	hing !	Sched	ule	Marks	Examinat	tion	Total	Duratio
		L	T	P	Tota 1	of Class Work	Theory	Practical	Marks	n of Exam
HUM-201- F OR MATH- 201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3	2		5	50	100	-	150	3
EEE 228-F	SIGNALS & SYSTEMS(ECE,EI)	3	-	-	3	50	100	•	150	3
EE-202-F	ANALOG ELECTRONICS(ECE,EI,EE, EEE,IC)	3	1	-	4	50	100		150	3
EE-204-F	DIGITAL ELECTRONICS(ECE,EI,EE, EEE,IC)	3	1	i	4	50	100		150	3
EI-210-F	ELECTRONICS MEASUREMENT & MEASURING INSTRUMENTS (EI)	3	1		4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1		4	50	100		150	3
EE-222-F	ANALOG ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	. 25		25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25		25	50	3
EI-202-F	ELECTRONICS MEASUREMENT & MEASURING INSTRUMENTS LAB (EI)		-	2	2	25		25	50	3
MATH- 204 –F	NUMERICAL METHODS OF COMPUTATIONAL PROGRAMMING LAB(ECE,EI,EE,EEE,IC)	1	1	2	4	25		25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-		2	2	50			50	3
	TOTAL	19	6 0r 7	10	35 Or 36	450	600	100	1150	

Note:

Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.

2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

THE TECHNOLOGICA INSTITUTE OF TEXTILE & SCIENCES, BHIWANI



M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION B.Tech. III YEAR (ELECTRONICS & INSTRUMENTATION ENGINEERING) SEMESTER V

'F' Scheme effective from 2011-12

Course No.	Course Title	Tead				Marks of	Examina	tion	Total Marks	Duration of Exam
		L	T	P	Tota l	Class Work	Theory	Practical		
EI-301-F	ANALOG ELECTRONICS-II	3	1	-	4	50	100	-	150	3
EI-303-F	ADVANCED MEASUREMENT & MEASURING INSTRUMENTS	3	1	-	4	50	100	-	150	3
EI-305-F	CONTROL ENGINEERING	3	1	-	4	50	100	-	150	3
EE-307-F	ANTENNAS, WAVE PROPAGATION & TV ENGG. (EI,ECE)	3	1		4	50	100	-	150	3
EE-309-F	MICROPROCESSORS AND INTERFACING (EL,EI,IC,CSE,IT,EEE,AEI)	3	1		4	50	100		150	3
EI-311-F	RANDOM VARIABLES & STOCHASTIC PROCESSES	3	1	-	4	50	100	-	150	3
El-321-F	CONTROL ENGINEERING LAB	-	-	2	2	25		25	50	3
E1-325-F	ANALOG ELECTRONICS-II LAB	-	-	2	2	25	- 1	25	50	3
EE-329-F	MICROPROCESSORS AND INTERFACING LAB (EL,EI,IC,CSE,IT,EEE,AEI)	-	-	2	2	25	-	25	50	3
EI-323-F	PROGRAMMING WITH MATLAB		0.15	2	2	25	-	25	50	3
EE-335-F	PRACTICAL TRAINING-I		-	2	2		- 11			
	TOTAL	18	6	10	34	400	600	100	1100	

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

COORDINATOR

Director,

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATION

B.Tech. III YEAR (ELECTRONICS & INSTRUMENTATION ENGINEERING)

SEMESTER-VI

'F' Scheme effective from 2012-13

Course	Course Title	Tead	ching	Sch	edule	Marks	Exam	ination	Total	Duration
No.		L	T	P	Total	of Class Work	Theory	Practical	Mark s	of Exam
EI-302-F	INDUSTRIAL ELECTRONICS	3	1		4	50	100	• > 2	150	3
EI-304-F	COMMUNICATION CIRCUIT & SYSTEMS	3	1	-	4	50	100	-	150	3
EE-312- F	MICROCONTROLLER S & EMBEDDED SYSTEMS (COMMON WITH ECE)	3	1		4	50	100	-	150	3
IT-305-F	COMPUTER NETWORKS (EI,ECE, CSE, IT)	3	1	-	4	50	100		150	3
EE-310- F	DIGITAL SYSTEM DESIGN (IC,EE,EEE,ECE,CSE,)	3	1	-	4	50	100	-	150	3
CSE- 210-F	COMPUTER ARCHITECTURE & ORGANIZATION (common with 4th sem CSE)	3	1	-	4	50	100	.=:	150	3
EI-326-F	COMMUNICAION CIRCUITS & SYSTEMS LAB	-	-	2	2	25	2	25	50	3
EE-330- F	DIGITAL SYSTEM DESIGN LAB (IC,EE,EEE,ECE,CSE,)	-	-	2		25	1	25	50	3
CSE- 310-F	COMPUTER NETWORKS LAB	-	-	2	2	25		25	50	3
EI-324-F		7-	-	2	2 2	- 25		25	50	
	TOTAL	18	6	8	32	400	600	100	1100	

 Note: Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

Director,

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATION B. Tech. IV YEAR (ELECTRONICS & INSTRUMENTATION ENGINEERING)

SEMESTER - VII

F' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Tead	ching	Sch	edule	Marks	Exam	ination	Total	Duration
		L	Т	Р	Tota 1	of Class Work	Theory	Practical	Mark s	of Exam
EI-401-F	PLCs & SCADA SYSTEMS	3	1		4	50	100	1	150	3
EI-403-F	Fuzzy Logic & Control	3	1	-	4	50	100		150	3
ECE-405-F	Wireless Communication (Common with ECE)	3	1	-	4	50	100		150	3
ECE-409-F	DIGITAL SIGNAL PROCESSING (Common with ECE)	3	1	-	4	50	100		150	3
	* Open Elective	3	1	-	4	50	100	-	150	3
	* Dept. Elective	3	1	-	4	50	100	-	150	3
ECE-423-F	WIRELESS & SATELLITE COMM. LAB			3	3	50		50	100	3
EI-431-F	PLCs & SCADA SYSTEMS LAB		-	2	2	50	-	50	100	3
ECE-429-F	Digital Signal Processing Lab	-	-	2	2	25		25	50	3
GPEI-401-F	GENERAL FITNESS FOR THE PROFESSION		-	-	-			50	50	3
EI-435-F	PRACTICAL TRAINING-II	-	-	2	2	-		_		
	TOTAL	18	6	9	33	425	600	175	1200	

Director,
THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI



List of Open Electives

1.	HUM-451-F	Language Skills for Engineers
2.	HUM-453-F	Human Resource Management
3.	HUM-459-F	Renewable Energy Resources and Tecchnology
4.	ME-451-F	Mechatronics Systems
5.	IC-455-F	Intelligent Instrumentation for Engineers
6.	OR-401-F	Operations Research

COORDINATOR

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Dept. Elective:

1	Wireless Sensor Networks	ECE-411-F	5	Advance Control Systems	EE-405-F
2	Mos ICs & Technology	EI-421-F	6	Radar & Sonar Engineering	EI-423-F
3	Optical Communication Systems	ECE-415-F			
4	Reliability of Electronic Systems	EI-437-F	1		

Note:

- Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
- 2. *Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.
- 3. A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.
- 4. Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance, letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

Director,

THE TECHNOLOGICAL INSTITUTE

M.D. UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATION

B.Tech. IV YEAR (ELECTRONICS & INSTRUMENTATION ENGINEERING)

SEMESTER - VIII

'F' Scheme

EFFECTIVE FROM THE SESSION 2012-13

OI NI	Commo No	Subject	Internal Marks	External Marks	Total Marks
	Course No. EI- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

COORDINATOR

Director,

THE TECHNOLOGICAL INSTITUTE

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION B.Tech II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING) SEMESTER III

'F' Scheme effective from 2010-11

Sr No	Course Title	Teacl	ning	Sche	dule	Marks	Examina	tion	Total	Duration
31 140	Could The	L	T	P	Total	of Class Work	Theory	Practical	Marks	of Exam
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3	1 2	-	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100		150	3
EE-201-F	ELECTRONICS DEVICES & CIRCUITS(ECE,EI,EE,EEE,IC)	3	1	-	4	50	100		150	3
EE-203-F	NETWORK THEORY (ECE.ELEE,EEE,IC)	3	1	1	4	50	100		150	3
EE-205-F	ELECTROMECHANICAL ENERGY CONVERSION(ECE,EI,IC)	3	1	-	4	50	100		150	3
CSE-201-F	DATA STRUCTURE USING 'C' (ECE,EI,CSE,IT)	3	1	-	4	50	100		150	3
EE-221-F	ELECTRONIC WORKSHOP, PCB DESIGN & CIRCUIT LAB(ECE.EI)	-	-	2	2	25		25	50	3
EE-223-F	NETWORK THEORY LAB(ECE,EI,EE,EEE,IC)	- 1	-	2	2	25		25	50	3
EE-225-F	ELETRICAL WORKSHOP & MACHINE LAB (ECE,EI)	107	-	3	3	50	-	50	100	3
CSE-205-F	DATA STRUCTURE USING 'C' Lab (ECE,EI,CSE,IT)		-	2	2	25	•	25	50	3
*	TOTAL	18	7	9	33 Or 34	425	600	125	1150	

NOTE:

 Students will be allowed to use non-programmable scientific calculator. However, Sharing of Calculator and other material will not be permitted in the examination.

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IOAC COORDINATOR PROPERTY OF THE PROPERTY OF T

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION BE. II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING) SEMESTER - IV

'F' Scheme effective from 2010-11

Course No.	Course Title	Teach	ing Sc	hedul	e	Marks	Examina		Total	Duration
ourse 140.	Course Title	L	T	P	Tota l	of Class Work	Theory	Practical	Marks	of Exam
HUM-201-F OR MATH-	ENGG. ECONOMICS OR MATHEMATICS - III	3	1 2	-	4 5	50	100	-	150	3
201-F									1.00	-
EE-228-F	SIGNALS & SYSTEMS(ECE,EI)	3			3	50	100		150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	•	4	50	100	i	150	3
EE-206-F	COMMUNICATION SYSTEMS(ECE)	3	1	- /	4	50	100		150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE, EI, EEE, IC)	3	1	-	4	50	100		150	3
EE-222-F	ANALOG ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-		2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-226-F	COMMUNICATION SYSTEMS LAB (ECE)	-	-	2	2	25		25	50	3
MATH-204 -F		1	1	2	4	25		25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)		-	2		50		-	50	3
-	TOTAL	19	6 Or 7	10	0 35 Or 36		600	100	1150	

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of

Calculator and other materials will not be permitted in the examination.

2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

Director,

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION BTech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING) SEMESTER V

Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Tea	ching	g Sch	edule	Marks	Exam	nination	Total	Duration
		L	T	P	Total	of Class Work	Theory	Practical	Marks	of Exam
EE-301-F	COMMUNICATION Engg.	3	1	-	4	50	100	-	150	3
	ELECTRONIC MEASUREMENT & INSTRUMENTATION (EL,EI,IC,EE,EEE,AEI)	3	1	•	4	50	100	•	150	3
EE-305-F	ANALOG ELECTRONIC CIRCUITS (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100		150	3
EE-307-F	ANTENNAS, WAVE PROPAGATION& TV Engg.	3	1	-	4	50	100	-	150	3
CSE-210- F	COMPUTER ARCHITECTURE AND ORGANISATION (EL,EI,IC,Common with IV sem. CSE,IT)	3	1		4	50	100	-	150	3
EE-309-F	MICROPROCESSORS AND INTERFACING (EL,EI,IC,CSE,IT,EEE,AEI)	3	1	-	4	50	100	•	150	3
EE-323-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB (EL,EI,IC,EE)	1	•	2	2	25		25	50	3
EE-325-F	ANALOG ELECTRONIC CIRCUITS LAB (EL,EI,IC)	-	-	2	2	25	1	25	50	3
EE-329-F	MICROPROCESSORS AND INTERFACING LAB (EL,EI,IC,CSE,IT,EEE,AEI)		-	2	2	25	-	25	50	3
EE-335-F	PRACTICAL TRAINING		-	2	2		-			
GPECE30 1-F	GERNERAL PROFICIENCY					50			50	3
	TOTAL	18	6	8	32	425	600	75	1100	

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

Director,

THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

M.D UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B. Tech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING) SEMESTER - VI dified 'F' Scheme effective from 2011-12

Course	Course Title				nedule	Marks	Exam	ination	Total	Duration
No.	Course Title	L	T	P	Total	of Class Work	Theory	Practical	Marks	of Exam
EE-302-F	MICROWAVE AND RADAR ENGINEERING	3	1	-	4	50	100	-	150	3
EE-304 F	CONTROL SYTEMS ENGG. (EL,EE, EEE)	3	1	-	4	50	100		150	
EE-306-F	VLSI Design	3	1	-	4	50	100	g hista	150	3
IT-305-F	COMPUTER NETWORKS	3	1	-	4	50	100		150	3
EE-310-F	DIGITAL SYSTEM DESIGN (EL,EI, IC,EE,CSE, AEI)	3	1	-	4	50	100	-	150	3
EE-308-F	MICROCONTROLLER & EMBEDDED SYSTEM	3	1	-	4	50	100	-	150	3
EE-328-	MICROCONTROLLER & EMBEDDED SYSTEM LAB		-	2	2	25	Ī	25	50	3
EE-326- F	DIGITAL SYSTEM DESIGN LAB (EL,EI, IC,EE,CSE,	-	-	2	2	25		25	50	3
EE-322- F	AEI) MICROWAVE AND RADAR LAB	-	-	2	2	25		25	50	3
EE-324- F	CONTROL SYTEMS ENGG.		-	2	2	25	-	25	50	3
	(EL,EE, EEE,AEI) TOTAL	18	6	8	32	400	600	100	1100	

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

THE TECHNOLOGICAL INSTITUTE

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination B. Tech. (Electronics and Communication Engg.)

SEMESTER VII

F'Scheme Effective from 2012-2013

Course No.	Course Title	Te	achin	g Sche	dule	Marks	Examir	ation	Total	Duration
Course 140.		L	T	Р	Total	of Class Work	Theory	Practical	Marks	of Exam
ECE-405-F	WIRELESS COMMUNICATION	3	1	- 3	4	50	100		150	3
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	i.e.	150	3
ECE-407-F	DATA COMMUNICATION	3	1		4	50	100	12	150	3
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1		4	50	100		150	3
	*Dept Elective-I	3	1		4	50	100	N=	150	3
ECE-409-F	Digital Signal Processing	3	1	- 1	4	50	100		150	3
ECE-423-F	Wireless & Satellite Communication Lab			3	3	50	-	50	100	3
ECE-427-F	Digital Signal Processing Lab	_		2	2	25		25	50	3
ECE-429-F	Data Communication Lab		-	2 3	2 3	50		50	100	3
GFEE-401-F	General Fitness For The Profession	٠	-		-			50	50	3
ECE-404-F	Practical Training II									
	TOTAL	18	6	8	32	425	600	175	1200	

Director,

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List of Dept Electives-I

ECE-419-F	Mobile Communication
ECE-461-F	Genetic Algorithms & Applications
ECE-453-F	Radar and Sonar Engg.
ECE-411-F	Wireless Sensor Network
ECE-413-F	Fuzzy Control System

Note:

Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator
will not be permitted in the examination.

*Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.

A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.

NOTE:-

Assessment of Practical Training-II, (ECE-404F) carried out at the end of VI semester, will be based
on seminar, viva-voce and project report of the student from the industry. According to performance
letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat
Practical Training.

Director,

THE TECHNOLOGICAL INSTITUTE
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M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination B. Tech. (Electronics and Communication Engg.)

SEMESTER VIII

F'Scheme Effective from 2012-2013

Training of Six Months

Course No.	Course Title	Te	achin	g Sch	edule	Marks of Class Work	Examination		Total	Duration
Course No.		L	Т	P	Total		Theory P	actical	Marks	of Exam
ECE-402-F	Industrial Training /Institutional Project work	b	-	8	8	150	-	150	300	-
	Total			8	8				1	

Note:

- The students are required to undergo Industrial Training or Institutional Project work of duration
 not less than 4 months in a reputed organization or concerned institute. The student who wish to
 undergo industrial training, the industry chosen for should be a private limited company.
 The final Viva-voca of the industrial training or Institutional Project work will be conducted by the
- 2. external examiner and one internal examiner appointed by the institute. External examiner will be from penal of examiner.
 - Assessment of traing or project will be based on Seminar, viva-voca, report and certificate of Industrial Training or Institutional project work.
- 3. The internal marks distribution for students who have undergone Industrial training consist of 50 marks from the Industry concern and 100 Marks by the committee members consisting of faculty members of concerned department of the present institute.
- The teacher engaged for institutional project work shall have a workload of 2 hours per group (at least 4 students per work)

Director,

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (TEXTILE CHEMISTRY) SEMESTER-III 'F' Scheme w.e.f 2010-11

Course No.	Course Title	Te	achi	ng Sc	hedule	Mark s of Class work	Exan	ination	Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
TT-201-F	Textile Raw Materials	3	1		4	50	100	-	150	3
TC-201-F	Physical & Organic Chemistry	3	1	-	4	50	100		150	3
TC-203-F	Yarn Formation	3	1		4	50	100		150	3
TC-205-F	Polymer & Fibre Chemistry	3	1	1	4	50	100	-	150	3
ME-217-F	Thermal Science	3	1		4	50	100	-	150	3
HUM-201- F	Engineering Economics	3	1	-	4	50	100	-	150	3
	Practicals									
TC-207-F	Yarn Formation Practical	-	-	3	3	50		50	100	4
TC-209-F	Qualitative Analysis of Organic Compounds	-		3	3	50	•	50	100	4
ME-219-F	Machine Drawing	-	-	2	2	50		50	100	4
TT-213-F	Fibre Microscopy & Identification	-	-	2	2	50		50	100	4
Total		18	6	10	34	500	600	200	1300	

TUTE OF TE COORDINATOR

Director,

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (TEXTILE CHEMISTRY) SEMESTER-IV 'F' Scheme w.e.f 2010-11

Course No.	Course Title	Teac Sche				Mark s of Class work	Examina	ation	Total Mark s	Duratio n of Exam
		L	T	P	Tot al		Theory	Practical		
TT-202-F	Man-Made Fibre Production	3	1		4	50	100		150	3
TC-202-F	Unit Organic Process & Chemical Engg	3	1	-	4	50	100		150	3
TC-204-F	Fabric Formation	3	1		4	50	100		150	3
TC-206-F	Preparatory Wet Processing	3	1	-	4	50	100	-	150	3
TT-210-F	Computer Aided Designing	3	1	-	4	50	100	-	150	3
MA-201-F	Applied Statistics & Operations Research	3	1	-	4	50	100		150	3
	Practicals						145 L			
TC-208-F	Fabric Formation Practical	-	-	3	3	50	- 1	50	100	4
TC-210-F	Preparatory Wet Process Lab	-	-	3	3	50		50	100	4
TC-212-F	Analytical Chemistry Lab	-	-	2	2	50		50	100	4
TT-218-F	Computer Aided Textile Design	-	-	2	2	50		50	100	4
	Total	18	6	10	34	500	600	200	1300	a francisco

Director,

THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

IQAC COORDINATOR SERVICE

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 3rd YEAR TEXTILE CHEMISTRY (TC) 5th SEMESTER Proposed 'F' Scheme w.e.f 2011-12

Course No.	Course Title			ichir iedu		Marks of Class work	Exam	ination	Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
TT-301-F	Structure & Properties of Fibres (common with TT)	3	1	-	4	50	100		150	3
TC-303-F	Technology of Dyeing	3	1	-	4	50	100		150	3
TC-305-F	Chemistry of Dyes	3	1	- 0	4	50	100	-	150	3
TT-307-F	Textile Testing-I (common with TT)	3	1	-	4	50	100	-	150	3
TC-309-F	Textile Design	3	1	-	4	50	100	-	150	3
TT-311-F	Garment Manufacturing Technology (Common with TT)	3	1	-	4	50	100		150	3
	Practicals									
TC-313-F	Dyeing Lab-l	-	-	3	3	50	-	50	100	4
TC-315-F	Technical Analysis Lab	-	-	3	3	50	-10	50	100	4
TT-317-F	Practical-I (common with TT)		-	2	2	50	-	50	100	4
TT-319-F	The second secon	-	-	2	2	50		50	100	4
	Total	18	3 6	10	34	500	.600	200	1300	

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THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 3rd YEAR TEXTILE CHEMISTRY (TC) 6th SEMESTER

Proposed 'F' Scheme w.e.f 2011-12

Course No.	Course Title			ichir nedu		Marks of Class work	Exam	ination	Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
TC-302-F	Processing of Synthetics & Blends	3	1	-	4	50	100	-	150	3
ГС-304-F	Textile Printing	3	1	1	4	50	100	-	150	3
ГТ-306-F	Textile Testing-II (common with TT)	3	1	-	4	50	100	-	150	3
TC-308-F	Textile Finishing-I	3	1	-	4	50	100	-	150	3 '
TC-310-F	Garment Processing & Quality Control	3	1	-	4	50	100	-	150	3
HUM-312- F	Merchandising & Export Management (common with TT)	3	1	-	4	50	100	-	-150	3
	Practicals									
TC-314-F	Dyeing Lab-II	-	-	3	3	50	-	50	100	4
TC-316-F	Printing Lab	-	-	3	3	50	-	50	100	4
TT-318-F	Textile Testing Practical-II (common with TT)	-	-			50		50	100	4
TC-320-F	The second secon	-		- 2	2	50	-	50	100	4
	Total	1	8 (5 1	0 34	500	600	200	1300	

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OFTEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (TEXTILE CHEMISTRY) SEMESTER-VII (2012-13) 'F' scheme w.e.f 2012-13

	B.TECH (ILL.	'F' sc	heme	w.e.f 2	2012-13		E	ination	Total	Duration
Course No.	Course Title	Teach	ing S	chedu	le	Marks of Class work	Exam		Marks	of Exam
		T	T	P	Total		Theory	Practical		2
		L	1	-	4	50	100		150	3
TC 401-F	Textile Chemical Testing	3	1	107.0	4	50	100	-	150	3
TC 403-F	Textile Finishing-II	3	1	-	4	50	100	-	150	3
TT 405-F	Production Planning & Quality Management OR Waste Management & Pollution	3	1	-	4					
	Control (common with T1)	- Constant	1	V.	4	50	100	-	150	3
TC 407-F	Wet Processing Machinery	3	1	-	4	50	100	-	150	3
TC 409-F	Theory of Coloration and Computer	3	1	-	7				1.50	3
	Colour Matching	3	1		4	50	100	-	150	3
HUM411-	Finance, Material and Human Resource Management (common with	177	1							
F	TT)			-	2	50	-	50	100	4
TC 412 F	1 CCM lob	-	-	3	3	50		50	100	4
TC 413-F	The Association of the Control of th	-	-	3	3		-	200	300	Viva
TC 415-F	to the state of th	-	-	-	-	100			-	-
TC 417-F		-	-	2	2	100			100	Viva
TC 418-F		-	-	2	2	100	- (00	300	1500	
TC 419-F	Project Work (Wild Term Brandary)	18	6	10	34	600	600	300	1000	

COORDINATOR

Director,

THE TECHNOLOGICAL INSTITUTE

B.TECH (TEXTILE CHEMISTRY) SEMESTER-VIII (2012-13)

Course No.	Course Title			Sched		Marks of Class work	Exan	nination	Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
TT 402-F	Post Extrusion Operations (common with TT)	3	1	-	4	50	100		150	3
TC 404-F	Developments in Textile Chemical Processing	3	1	-	4	50	100	-	150	3
TC 406-F	Process Control in Chemical Processing	3	1		4	50	100		150	3
TC 408-F	Knitting & Knit Processing OR Eco-friendly Processing and Manufacturing of Textiles	3	1		4	50	100	-	150	3
TT 410-F	Technical Textiles OR Global Scenario of Textile Industry (Common with TT)	3	1	-	4	50	100	-	150	3
CSE 412-	Computer Network & Applications (common with TT)	3	1	-	4	50	100	-	150	3
TT 414-F	Textile Colour & Design (common with TT)	-	7-	3	3	50	-	50	100	4
CSE 416-	Computer Networking Practical (common with TT)		2	3	3	50	-	50	100	4
TC 418-F	Seminar	-	-	2	2	200		-	200	Viva
TC 420-F	Project Work	-	-	2	2		-	200	200	Viva
Total	1,000	18	6	10	34	600	600	300	1500	

Director,

THE TECHNOLOGICAL INSTITUTE
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F-Scheme

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M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING) SEMESTER III

'F' Scheme effective from 2010-11

SI. No	Course No.	Subject			nchi		E	xaminatio (Ma		ile	Duration of Exam
			L	Т	P	Total	Mark s of Class work s	Theory	Practi cal	Total	(Hours)
1	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BM E,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
2	CSE-201 F	Data Structures Using C (CSE,ECE,IT,EI)	3	1	-	4	50	100	-	150	3
3	CSE-203 F	Discrete Structures (CSE,IT)	3	1	-	4	50	100	-	150	3
4	EE-217 -F	Digital & Analog Communication (CSE,IT)	3	1	-	4.	50	100	-	150	3
5	EE-204-F	Digital Electronics (Common with 4 th Sem. – EE,EL,EI & IC)	3	1	-	4	50	100	-	150	3
6	HUM-203 F	Fundamental of Management (Common for all branches)	3	1	-	4	50	100	-	150	3
7	IT-201-F	PC Lab (CSE,IT)	-	-	3	3	50	-	50	100	3
8	CSE-205-F	Data Structures Using C Lab (CSE,ECE,IT,EI)	-	-	2	2	25		25	50	3
9	EE-224-F	Digital Electronics Lab (CSE,IT & Common with 4 th Sem. – EE,EL,El & IC)		-	3		50		50	100	3
		TOTAL	18	3 7	8	33	425	600	125	1150	

NOTE: 1. Students will be allowed to use non-programmable scientific calculator.

However, sharing of Calculator will not be permitted in the examination.

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OF TEXTILE & SCIENCES, BHIWAM

0.							Class		ical		
1	CSE-202 F	Data Base Management Systems (CSE,IT)	3	1		4	50	100	-	150	3
2	CSE-204 F	Programming Languages	3	1	-	4	50	100	-	150	3
3	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,B ME,EE,EEE,E&I,I& C) OR ENGG. ECONOMICS	3	2		5	50	100	× -	150	3
4	IT-202-F	Object-Oriented Programming using C++ (CSE,IT)	3	1	-	4	50	100	-	150	3
5	CSE-208 F	Internet Fundamentals (CSE,IT)	3	1	-	4	50	100	-	150	3
6	CSE-210 F	Computer Architecture and Organization (CSE,IT and Common with 5 th Sem. EL,EI,IC)	3	1	-	4	50	100	-	150	3
7	CSE-212 F	Data Base Management Systems Lab. (CSE,IT)	-	-	3	3	50	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50	100	3
8	IT-206-F	C++ Programming Lab. (CSE,IT)	-	-	2	2	25		25	50	3
9	CSE-214 F	Internet Lab. (CSE,IT)	-	-	2	2	25		25	50	3
10	GP-202 F	General Proficiency	-	-	2	2	50		-	50	
	AD SO - DATE OF BANKE OF	TOTAL	18	6	9	34	450	600	100	1150	

Note:

 Students will be allowed to use non-programmable scientific calculator. However, sharing of

2) Calculator will not be permitted in the examination.

COORDINATOR

3) Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

Director,

THE TECHNOLOGICÂL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

M. D. UNIVERSITY, ROHTAK

Scheme of studies & Examination Bachelor of Technology (Computer Science & Engineering) Semester - V

'F' Scheme Effective from 2010-11

			Tea	chin	g Sche	dule		Examination (Marks)	Schedule		
S. No.	Course No.	Subject	L	Т	P	Total	Marks of Class work	Theory	Practic al	Total	Duration of Exam (Hours)
1	CSE-301 F	Principles of Operating System (CSE,IT)	3	1	1	4	50	100	-	150	3
2	EE-309-F	Microprocessors and Interfacing (EL,CSE,IT,EI, IC, EEE, AEI)	3	1	-	4	50	100	-	150	3
3	CSE-303-F	Computer Graphics (CSE,IT)	3	1		4	50	100	-	150	3
4	CSE-305-F	Theory of Automata Computation	3	1		4	50	100	-	150	3
5	CSE 307-F	Web Development (Common with IT – VI Sem)	3	1	-	4	50	100	-	150	3
6	IT-204-F	Multimedia Technologies (Common with IT- IV- Sem)	3	-	-	3	50	100	-	150	3
7	CSE-309-F	Computer Graphics Lab. (CSE,IT)	-	-	3	3	25		25	50	3
8	CSE-311-F	Web Development & Core JAVA Lab. (Common with 6 SemIT)	_	•	2	2	25		25	50	3
9	IT-208-F	Multimedia Tech. Lab (Common with IT-IVSem)	-	-	2	2	25	•	25	50	3
10	EE-329-F	Microprocessors and Interfacing Lab. (EL,CSE,IT,EI, IC, EEE, AEI)	-	-	2	2	25	•	25	50	3
11.	CSE-313-F	O.S. Lab. (CSE, IT)	-	-	2	2	25	-	25	50	
12	CSE-315-F	Practical Training-I	-	1.	2	2			-	-	-
		TOTAL	18	5	13	36	425	600	125	1150	

Note:

 Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded "F" grade is required to repeat Practical Training.

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination Bachelor of Technology (Computer Science & Engineering) Semester - VI 'F' Scheme Effective from 2010-11

			Tea	ching	Sch	edule	F	Examination S (Marks)	Schedule		
S. No.	Course No.	Subject	L	Т	P	Mar of Total C wor	lass	Theory	Practi cal	Total	Duration of Exam (Hours)
1	CSE-302 F	Principles of Software Engineering (CSE,IT)	3	1	-	4	50	100	A STATE OF THE STA	150	3
2	CSE-304 F	Intelligent Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
3	IT-305 F	Computer Networks (CSE, EL & Common with 5 Sem. – IT, AEI)	3	1	-	4	50	100	-	150	3
4	IT-303 F	Systems Programming & System Administration (Common with 5 Sem. – IT)	3	1		4	50	100	-	150	3
5	CSE-306 F	Analysis & Design of Algorithms	3	1	-	4	50	100		150	3
6	EE-310-F	Digital System Design (EL,EE,CSE,EI, IC, AEI)	3	1	-	4	50	100	-	150	3
7	CSE-308 F	Intelligent Systems Lab. (CSE,IT)	-	-	3	3	25		25	50	3
8	EE-330-F	Digital System Design Lab. (EL,EI, IC,CSE, AEI)	-	-	3	3	25		25	50	3
9	CSE-310-F	Computer Network lab	-	-	2	2	25		25	50	3
	CSE-312-F	Visual Programming Lab.	-	-	2	2	25	-	25	50	3
9	GP-302-F	General Proficiency			-	-7	50		-	50	3
		TOTAL	18	6	10	34	450	600	100	1150	

Note:

- 1. Each student has to undergone practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.
- 2. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator

will not be permitted in the examination.

Director,

THE TECHNOLOGICAL INSTITUTE

M.D.UNIVERSITY, ROHTAK

Scheme of Studies / Examination

Bachelor of Technology (Computer Science & Engineering)

SEMESTER VII

'F' Scheme Effective from 2012-13

500 500					chin edul		Ex	amination (Mark		****	
SI. No.	Course No.	Subject	L	T	P	Total	Marks of Class work	Theory	Practical	Total	Duration of Exam (Hours)
1	CSE-401 F	Advanced Computer Architecture	3	1		4	50	100	-	150	3
2	CSE-403 F	Software Project Management (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-405 F	Compiler Design	3	1	-	4	50	100		150	3
4	CSE-407 F	Neural Networks	3	1	-	4	50	100	-	150	3
5	CSE-409 F	Advanced Java (CSE, IT)	3	1	-	4	50	100	-	150	3
6	7	Elective	3	1	-	4	50	100	-	150	3
7	CSE-411 F	Compiler Design Lab	-	-	2	2	25		50	75	3
8	CSE-413 F	Neural Networks Using MATLAB	-	-	2	2	25	-	50	75	3
9	CSE-415 F	Advanced JAVA Lab (CSE, IT)		-	3	3	50	-	100	150	3
10	CSE-417 F	PRATICAL TRAINING-II	-	-	-	-			-		
		TOTAL	18	6	7	31	400	600	200	1200	

List of Electives

1.	CSE-423 F	Distributed Operating System
2.	IT-465F	Network Security & Management
3.	CSE-421 F	Real Time Systems
4.	CSE-435 F	Advanced Database Management Systems
5.	IT-467 F	Computer Software Testing
6.	IT-473 F	High Speed Networks

Note:

- 1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
- 2. Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.

3. Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

Director,

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS

B. Tech. 4th YEAR COMPUTER SC & ENGINEERING, SEMESTER-VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CSE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4

students) per week.

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (FASHION & APPAREL ENGG) SEMESTER-III 'F' Scheme w.e.f 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
TT- 201-F	Textile Raw Materials	3	1	-	4	50	100		150	3
FA- 201-F	Traditional Indian Embroideries & Textiles	3	1	-	4	50	100		150	3
TC- 203-F	Yarn Formation	3	1	-	4	50	100		150	3
FA- 207-F	Apparel Production-I	3	1	-	4	50	100		150	3
MA- 201-F	Applied Statistics & Operations Research	3	1		4	50	100		150	3
HUM- 201-F	Engineering Economics	3	1	-	4	50	100	=-	150	3
	Practicals								Jawa militara	
TC- 209-F	Yarn Formation Practical	-	-	3	3	50		50	100	4
FA- 205-F	Fashion Sketching	-	-	3	3	50		50	100	4
FA- 207-F	Traditional Indian Embroideries & Textiles			2	2	50		50	100	4
TT- 213-F	Fibre Microscopy & Identification		-	2	2	50		50	100	4
	Total	18	6	10	34	500	600	200	1300	

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (FASHION & APPAREL ENGG) SEMESTER-IV 'F' Scheme w.e.f 2010-11

Subject Code	Course Title	Teaching Schedule				Mark s of Class work	Examination		Total Mark s	Duration of Exam
		L	T	P	Total		Theory	Practical		
FA-202-F	Evolution of Clothing & Fashion	3	1	-	4	50	100	-	150	3
FA-204-F	Colour and Design Concepts	3	1	-	4	50	100		150	3
TC-204-F	Fabric Formation	3	1	-	4	50	100		150	3
TT-208-F	Fabric Structure	3	1	-	4	50	100	The state of the s	150	3
FA-206-F	Apparel Merchandising	3	1	-	4	50	100	•	150	3
FA-208-F	Apparel Production- II	3	1	-	4	50	100		150	3
	Practicals							- 50	100	-
TC-208-F	Fabric Formation Practical	-	-	3	3	50		50	100	4
FA-210-F	Colour and Design Lab	-	-	3	3	50		50	100	4
FA-212-F	Elementary Garment Manufacturing Lab	-	-	2	2	50		50	100	4
FA-214-F	Design Ideas and Fashion Illustration	-	-	2	2	50	-	50	100	4
	Total	18	6	10	34	500	600	200	1300	

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FA-202-F EVOLUTION OF CLOTHING AND FASHION

	т	D	Class work	:	50
L	1	r	Examination	9	100
3	1		Total	:	150
			Exam duration	1:	3 hrs

NOTE: Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

Origin of clothing. Objectives of clothing and costumes, Main archetypes of costumes, Principles of history of fashion. Theories of clothing-Protection, adornment, modesty and combined need theory etc.

Fashion and its meaning, Principles and history of fashion, Classification of fashion. Fashion product Life cycles. Sources of Fashion, Factors affecting fashion movement like cultural, socio-psychological, etc.

Unit II

Effect of various factors such as communication, industry, economy, sports etc on fashion. Fashion leadership theories. Important fashion capitals, National and International fashion designers, National and International fashion markets and fashion weeks.

Unit III

Indian history of costumes: Concept and comparison of costumes of all stages of pre-histpric and medieval period, Study of Costumes, jewellary, footwear, hairstyles etc. in India in different periods as - Vedic and post vedic period, Maurian Period, Gupta period Kushan and Kanishka period.

Unit IV

Global history of costumes: Concepts and history of classical costumes in Greek civilization and Roman civilization. History of costumes in Egyptian and Byzantine civilization. History of costumes in the western world starting from the origin up to the Reign of Charles and Louis with the emphasis on famous fashion centers and famous fashion designers. Important national and international fashion designers.

Reading List

Title

The guide to historic costumes Inside Fashion Business Inside Fashion Design Fashion: From Concept to Consumers

Understanding today's Fashion

Author

Karen Baclaw Ski Kitty G.Dickerson Sharon Lee Tate Gini Stephon Frings

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (FASHION & APPAREL ENGG) SEMESTER-V 'F' Scheme w.e.f 2011-12

Course No.	Course Title	Teac Sche				Marks of Clas	Exami	nation	Total Marks	Duration of Exam
	· <u> </u>	Y	T	P	Total		Theo	Practical		
-	Vuitting	L 3	1	-	4	5	100	-	150	3
FA- 301-F	Knitting Technology	-				0			150	3
FA- 303-F	Apparel Production-III	3	1	-	4	5 0	100	-	150	3
FA-	Preparatory Wet	3	1	-	4	5 0	100	-	150	3
305-F FA-	material Studies	3	1	-	4	5 0	100	•	150	3
307-F FA- 309-F	Apparel Production Planning & Scheduling	3	1	-	4	5 0	100		150	3
FA- 311-F	Finance Material & Human Resource	3	1	-	4	5 0	100	-	150	3
	Practicals				1	5		50	100	4
FA-	Pattern Making	-	-	2	2	0		30	and the second	
313-F FA-	Apparel Construction Lab	-	-	3	3	Control to the second	-	50	100	
315-F FA- 317-F	Woven Knit			. 2	2		-	50	100	
FA- 319-F	Preparatory Wet processing Lab			- 3		0			100	
	Total	1	8	6 1	0 3	3 500	0 6	00 200	130	0



						S				
		L	T	P	Total	1000	Theo	Practical		
TC- 302-F	Dyeing of Textiles	3	1	-	4	5	100		150	3
TT- 304-F	Textile & Garment	3	1	-	4	5	100	-	150	3
FA- 306-F	Garment Production Machines &	3	1	-	4	5	100		150	3
FA- 308-F	Knitted Garment Technology	3	1	-	4	5 0	100	-	150	3
FA- 310-F	Apparel Marketing & Merchandising	3	1	-	4	5 0	100		150	3
TT- 312-F	Structure & Properties of Textiles	3	1	-	4	5 0	100		150	3
	Practicals				7.5					
TC- 314-F	Dyeing & Computer Color	-	-	2	2	5 0		50	100	4
TT- 316-F	Textile &	-	-	3	3	5 0	-	50	100	4
FA- 318-F	Apparel Design Lab	0 -	-	2	2	5 0	•	50	100	4
FA- 320-F	Apparel Construction Lab-	-	-	3	3	5 0		50	100	4
[223][E8	Total	18	6	10	3	500	60	0 200	1300	

for

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THE TECHNOLOGICAL INSTITUTE
OF TEXTILE & SCIENCES, BHIWANI

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (FASHION & APPAREL ENGG) SEMESTER-VII 'F' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title		hing			Marks of Class work	Examin	ation	Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FA- 401-F	Printing of Textiles	3	1	-	4	50	100	-	150	3
FA- 403-F	Textile and Apparel Costing	3	1	-	4	50	100	-	150	3
FA- 405-F	Automation in Garment Industry	3	1	-	4	50	100	9	150	3
FA- 407-F	Computer Aided Designing	3	1	-	4	50	100	1 -	150	3
FA- 409-F	Fashion Selection	3	1		4	50	100	-	150	3
FA- 411-F	Indian Business Environment	3	1	-	4	50	100		150	3
FA- 413-F	Printing Lab	-		3	3	50		50	100	4
FA- 415-F	Apparel Design by CAD	-		3	3	50	-	50	100	4
FA- 417-F	Garment Industry Practice	-	-	-	-	-		300	300	4
FA- 418-F	Seminar	-	-	2	2		1	#1:	-	
FA- 419-F	Project Work (Mid Term Evaluation)	-	-	2	2	-	-	100	100	4
	Total	18	6	10	34	400	600	500	1500	

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Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES AND EXAMINATION B.TECH (FASHION & APPAREL ENGG) SEMESTER-VIII 'F' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Teac Sche				Marks of Class work	Exami	nation	Total Marks	Duration of Exam
		L	T	P	Total		Theor	Practical		
FA- 402-F	High Tech Garments	3	1	-	4	50	100		150	3
FA- 404-F	Quality Assurance in Apparel Industry	3	1		4	50	100		150	3
FA- 406-F	Fashion Accessories	3	1		4	50	100		150	3
FA- 408-F	Retailing and Fashion Promotion	3	1	-	4	50	100		150	3
FA- 410-F	Chemical & Mechanical Finishing of Textiles	3	1		4	50	100		150	3
FA- 412-F	Advance Apparel Construction Techniques OR Home Fashions	3	1	-	4	50	100	-	150	3
FA- 414-F	Apparel Draping & Grading	-	-	3	3	50		50	100	4
FA- 416-F	Advance Apparel Construction Lab OR Home Fashions Lab	-	-	3	3	50	-	50	100	4
FA- 418-F	Seminar	-	-	2	2	200	-		200	4
FA- 420-F	Project Work	-	-	2	2	100) -	100	200	4
	Total	18	6	10	34	700	600	200	1500	

IQAC COORDINATOR Director,

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION B.TECH. II YEAR (INFORMATION TECHNOLOGY) SEMESTER -III

'F' Scheme effective from 2010-11

SI.					achi hedi		E	Examinatio (Ma	n Schedule		
N 0	Course No.	Subject	L	Т	P	Total	Marks of Class work	Theory	Practical	Tota	Duration of Exam (Hours)
1	MATH- 201-F OR HUM- 201-F	Mathematics III Common to (CSE,IT,ME,ECE,B ME,EE,EEE,E&I,I& C) OR ENGG. ECONOMICS	3	2	1	5	50	100	1-	150	3
2	CSE-201 F	Data Structures using 'C' (CSE,ECE,IT,EI)	3	1	-	4	50	100	-	150	3
3	CSE-203 F	Discrete Structures (CSE,IT)	3	1	-	4	50	100	-	150	3
4	EE-217-F	Digital & Analog Communication (IT,CSE)	3	1	-	4	50	100	-	150	3
5	EE-204-F	Digital Electronics (CSE, IT & common with IV Sem. EL,EE,EI, IC)	3	1	•	4	50	100	-	150	3
6	HUM-203 F	Fundamental of Management (Common for all branches)	3	1	-	4	50	100	-	150	3
7	IT-201 F	PC Lab. (CSE, IT)	-	-	3	3	50		50	100	3
8	CSE-205 F	Data Structures using 'C' Lab (CSE,ECE,IT,EI)	-	1	2	2	25	2	25	50	3
9	EE-224-F	Digital Electronics Lab (Common with 4 th Sem EL,EE,EI, IC)	-		3	3	50		50	100	3
	101333	TOTAL	18	7	9	33	425	600	125	1150	TO SECTION

NOTE: Students will be allowed to use non-programmable scientific calculator. However, sharing Calculator will not be permitted in the examination.

Director,

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THE TECHNOLOGICAL INSTITUTE

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Director,

OF TEXTILE & SCIENCES, BHIWANI

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION B.TECH. II YEAR (INFORMATION TECHNOLOGY) SEMESTER -IV

'F' Scheme effective from 2010-11

			1	Геа	chi	ng	ve from 2	Examination			
SI. No	Course No.	Subject	L		P	Tota	Marks of class work	(Mar	Practical	Tota 1	Duration of Exam (Hours)
1	CSE-202 F	Data Base Management Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
2	MATH- 201-F OR HUM- 201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE ,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100		150	3
3	CSE-208 F	Internet Fundamentals (CSE,IT)	3	1	-	4	50	100	-	150	3
4	IT-202 F	Object Oriented Programming using C++ (CSE,IT)	3	1		4	50	100	- 41-	150	3
5	CSE-210 F	Computer Architecture & Organization (CSE, IT and common with V-sem. EL,EI,IC)	3	1	-	4	50	100	i <u>U</u> rio	150	3
6	1T-204 F	Multimedia Technologies (Common with CSE – V Sem.)	3	1		4	50	100		150	3
7	CSE-216 F	Data Base Management Lab.	-	-	2	2	25		25	50	3
8	IT-206 F	C++ Programming Lab. (CSE,IT)	-	-	2	2	25	1-1	25	50	3
9	IT-208 F	Multimedia Technologies Lab (Common with CSE – V Sem.)	-		2	2	25		25	50	3
10	CSE-214 F	Internet Lab. (CSE, IT)	-		2	2	25		25	50	3
11	GP-202 F	General Proficiency	-		- 2		50			50	3
		TOTAL	18	3	6 9	35	450	600	100	1150	-

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

2. Each student has to undergo practical training of 6 weeks during summer vacation and its

evaluation shall be carried out in the V semester.

COORDINATOR

M.D. UNIVERSITY, ROHTAK

Scheme of Studies & Examination Bachelor of technology(Information Technology) Semester - V 'F' Scheme Effective from 2010-11

			Tea	ching	Sched	ule		Examinatio (Marks)			Duration
S No	Course No.	Subject	L	Т	P	Total	Marks of Class work	Theory	Practical	Total	of Exam (Hours)
1	IT-301-F	Rapid Application Development	3	1		4	50	100	-	150	3
2	IT-303-F	System Programming & System Administration (Common with CSE – VIth Sem)	3	1		4	50	100	-	150	3
3	IT-305-F	Computer Networks (IT, AEI, Common with CSE & EL- VIth Sem)	3	1	-	4	50	100	-	150	3
4	CSE-301-F	Principles of Operating System (CSE,IT)	3	1	-	4	50	100		150	3
5	EE- 309-F	Microprocessor & Interfacing (EL,CSE,IT,EI, IC, EEE, AEI)	3	1	-	4	50	100	-	150	3
6	CSE-303-F	Computer Graphics (CSE,IT)	3	1	-	4	50	100	-	150	3
7	IT-307-F	Rapid Application Development Lab		-	2	2	25		25	.50	3
8	CSE-309-F	Computer Graphics Lab (CSE,IT)			3.	3	50		50	100	3
9	- CSE-313-F	Operating Systems Lab. (CSE, IT Common with CSE – V Sem)			2	2	25		25	50	3
10	EE-329- F	Microprocessor & Interfacing Lab. (CSE, IT, EL, EI, IC, AEI, EEE)	-	-	2	2	25		25	50	3
11	IT-309-F	Practical Training-I	-	-	2	2				-	-
		TOTAL	18	6	11	35	425	600	125	1150	

Note:

Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2) The marks of class work as well as practical examination in the subject CSE-309 E (Computer Graphics Lab.) has been increased from 25 each to 50 each. Thus the total marks for the subjects shall be 100 in place of 50 from the session 2007-08.

> IQAC COORDINATOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Information Technology)
Semester - VI
'F' Scheme effective from 2010-11

			Te	achi	ng Sc	hedule		Examination	Schedule		Duratio
S. No.	Course No.	Subject	L	т	P	Total	Marks of Class work	Theory	Practical	Total	n of Exam (Hours)
1	IT-302 F	Network Programming	3	1		4	50	100		150	3
2	CSE-302 F	Principles of Software Engineering (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-304 F	Intelligent Systems (CSE,IT)	3	1	-	4	50	100		150	3
4	CSE-307 F	Web Development (Common with CSE – V Sem,)	3	1	-	4	50	100		150	3
5	EE-402-F	Wireless Communication (CSE, IT and Common with 8 Sem-EL)	3	1		4	50	100	-	150	3
6	MATHE-302-F	Operations Research (Commom with CSE 8th Semester)	3	1	-	4	50	100		150	3
7	IT-304 F	Network Programming Lab. (EL,IT, AEI).	-	-	2	2	50		50	100	3
8	CSE-306 F	Intelligent Systems Lab. (CSE,IT)	-	-	3	3	25		25	50	3
9	CSE-311 F	Web Development & Core JAVA Lab. (Common with V Sem – CSE)	-		2	2	25	-	25	50	3
11	GPIT-302 F	General Proficiency		-	-		50		2 2	50	
WAS S		TOTAL	8	6	7	31	425	600	75	1150	

Note:

1) Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

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COORDINATOR

2) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

M.D.UNIVERSITY, ROHTAK

Scheme of Studies & Examination **Bachelor of Technology (Information Technology)** SEMESTER VII

'F' Scheme effective from 2012-13

O1			Tea	ching	g Sch	nedule		Examination (Mark			Duration of Exam
SI. N o	Course No.	Subject	L	Т	P	Total	Marks of Class work	Theory	Practi cal	Total	
1	IT-401 F	Data Warehousing & Data Mining	3	1		4	50	100		150	3
2	CSE-403F	Software Project Management (CSE,IT)	3	1	-	4	50	100		150	3
3	IT-403 F	System & Network Administration	3	1	Ī	4	50	100		150	3
4	IT-407 F	Web Engineering	3	1	-	4	50	100		150	3
5	CSE-409F	Advanced JAVA	3	1	-	4	50	100	-	150	3
6		DEPTT ELECTIVE	3	1	-	4	50	100		150	3
7	IT-409 F	System & Network Administration Lab.		Ė	2	2	25		50	75	3
8	IT-411 F	Web Engineering Lab.	-	-	2	2	25		50	75	3
9	CSE 415 F	Advanced JAVA Lab	-	-	3	3	50		100	150	3
10	IT-415 F	Practical Training-II	-	-	-	-		-	3	-	-
		TOTAL '	18	6	7	31	400	600	200	1200	

1	IT-421 F	Embedded Systems Design	-
1			Witness Co.
2	IT-471 F	Management Information Systems	
4	IT-407 F	Web Engineering	
5	CSE-423 F	Distributed Operating System	
6	IT-465F	Network Security & Management	
7	CSE-425 F	Digital Image Processing	
8	CSE-435 F	Advanced Database Management Systems	
9	CSE-437F	Natural Language Processing	
10	CSE-439 F	Object Oriented System Development	
11	IT-467 F	Computer Software Testing	
12	IT-469 F	Logic & Functional Programming	
13	CSE-441 F	Human Computer Interaction	
14	IT-473 F	High Speed Networks	
15	IT-405 F	Introduction to E-Commerce & ERP	

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2. Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.

3. Assessment of Practical Training-II, undergone at the end of VI semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR INFORMATION TECHNOLOGY, SEMESTER-VIII

(Proposed Scheme-F)

W.E.F 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	IT- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

> HNO OGICAL INSTITUTE XTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 2nd YEAR TEXTILE TECHNOLOGY(TT) 3rd SEMESTER

Proposed 'F' Scheme w.e.f 2010-11

Course No.	Course Title	Teac	hing	Sche	dule	Marks of Class work	Exam	ination	Total Marks	Duratio n of Exam
		L	Т	P	Tot al		Theory	Practical		
TT-201-F	Textile Raw Materials (common with TC/FAE)	3	1		4	50	100	-	150	3
TT-203-F	Yarn Manufacture-I	3	1	-	4	50	100	-	150	3
TT-205-F	Weaving Preparation	3	1	-	4	50	100		150	3
TT-207-F	Fabric Manufacture-I	3	1	-	4	50	100	- 1	150	3
ME-217-F	Thermal science(common to TC and TT)	3	1		4	50	100		150	3
HUM-201-F	Engineering Economics (Common to CSE, ME, ECE, BME, EE, EEE, E&I, I&C, IT, CE, TT, FAE, TC)	3	1	-	4	50	100	-	150	3
	Practicals									
TT-209-F	Spinning Practical-I	1	-	3	3	50		50	100	4
TT-211-F	Weaving Practical-I	-	-	3	3	50		50	100	4
ME-219-F	Machine Drawing	-	-	2	2	50	-	50	100	4
TT-213-F	Fibre Microscopy & Identification	-	-	2	2	50	-	50	100	4
	Total	18	6	10	34	500	600	200	1300	

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 2nd YEAR TEXTILE TECHNOLOGY (TT) 4th SEMESTER Proposed 'F' Scheme w.e.f 2010-11

Course No.	Course Title	Teac	hing	Sche	dule	Marks of Class work	Examinati	on	Total Marks	Duration of Exam
		L	T	P	Tot al		Theory	Practical		
TT-202-F	Man-Made Fibre Production	3	1	-	4	50	100	-	150	3
TT-204-F	Yarn Manufacture-II	3	1	-	4	50	100	-	150	3
TT-206-F	Fabric Manufacture- II	3	1	-	4	50	100	-	150	3 -
TT-208-F	Fabric Structure	3	1	-	4	50	100	-	150	3
TT-210-F	Computer Aided Designing	3	1	-	4	50	100	-	150	3
MA-201-F	Applied Statistics & Operations Research	3	1	-	4	50	100		150	3
	Practicals									
TT-212-F	Spinning Practical-II	-	-	3	3	50	1-1-	50	100	4
TT-214-F	Weaving Practical-II	-	-	3	3	50	-	50	100	4
TT-216-F	Fabric Analysis		-	2	2	50		50	100	4
TT-218-F	Computer Aided Textile Designing		-	2	2	50	-	50	100	4
	Total	18	6	10	34	500	600	200	1300	

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 3rd YEAR TEXTILE TECHNOLOGY (TT) 5th SEMESTER

Proposed 'F' Scheme w.e.f 2011-12

Course No.	Course Title			chin		Marks of Class work	Exam	ination	ation Total Marks	
		L	T	P	Total		Theory	Practical		
ГТ-301-F	Structure & Properties of Fibres (Common with TC)	3	1	-	4	50	100	-	150	3
ТТ-303-F	Yarn Manufacture-III	3	1	-	4	50	100	-	150	3
TT-305-F	Fabric Manufacture-III	3	1	-	4	50	100	1 -	150	3
TT-307-F	Textile Testing-I (Common with TC)	3	1	-	4	50	100	-	150	3
TT-309-F	Textile Chemical Processing-I	3	1	-	4	50	100		150	3
TT-311-F	Garment Manufacturing Technology (Common with TC)	3	1	-	4	50	100	- 1	150	3
	Practicals									
TT-313-F	Spinning Practical-III	-	-	3	3	50	-	50	100	4
TT-315-F	Weaving Practical-III	4-	-	3	. 3	50	-	50	100	4
TT-317-F	F Textile Testing Practical-I (Common with TC)	-	-	2	2	50	-	50	100	4
TT-319-I	Patterning Cutting & Making-UP (Common with TC)		-	2	2	50	-	50	100	4
	Total	18	3 6	10	34	500	600	200	1300	

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 3rd YEAR TEXTILE TECHNOLOGY (TT) 6th SEMESTER

Proposed 'F' Scheme w.e.f 2011-12

Course No.	Course Title			achin nedu		Marks of Class work	Exam	in <mark>ation</mark>	Total Marks	Duration of Exam
		L	Ť	P	Total		Theory	Practical		
TT-302-F	Modern Methods of Yarn Production	3	1	-	4	50	100	-	150	3
TT-304-F	Fabric Manufacture-IV	3	1	-	4	50	100		150	3
TT-306-F	Textile Testing-II (Common with TC)	3	1	-	4	-50	100	-	150	3
TT-308-F	Mechanics of Textile Machinery	3	1	į	4	50	100		150	3
TT-310-F	Textile Chemical Processing-II	3	1	-	4	50	100	•	150	3
HUM-312- F		3	1	-	4	50	100	-	150	3
	Practicals									
TT-314-F	Spinning Practical-IV	-	-	3	3	50	-	50	100	4
TT-316-F	Weaving Practical-IV	Ī	-	. 3	3	50		50	100	4
TT-318-F	Textile Testing Practical-II (Common with TC)			- 2	. 2	50		50	100	4
TT-320-F	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	-		- 2	2	50		50	100	
	Total	13	8	6 1	0 34	500	600	200	1300)

IQAC COORDINATOR

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B. Tech FINAL YEAR TEXTILE TECHNOLOGY (TT) 7th SEMESTER

'F' Scheme w.e.f 2012-13

Course No.	Course Title			chi		Marks of Class work	Exam	Total Marks	Duration of Exam	
		L	T	P	Total		Theory	Practical		
ГТ-401-F	High Performance Fibres	3	1	-	4	50	100	-	150	3
ГТ-403-F	Multifibre Spinning	3	1	-	.4	50	100		150	3
TT-405-F	Waste Management & Pollution Control OR Production Planning & Quality Management	3	1	_	4	50	100	-	150	3
TT-407-F	Engineering of Textile Structures-I	3	1	-	4	50	100	-	150	3
TT-409-F	Textile Costing	3	1	-	4	50	100	-	150	3
HUM- 411-F	Finance, Material and Human Resource Management	3	1	-	4	50	100	7	150	3
TT-413-F		-	-	3	3	50	-	50	100	4
TT-415-F	Weaving Practical – V	9	-	3	3	50	-	50	100	4
TT-417-F	Mill Practice	-	-	-	-	100	-	200	300	4
TT-418-F	Seminar	-	-	2	2	-	-	-	-	-
TT-419-F	Project Work (Mid Term Evaluation)	-	-	2	2	100	-	l la la company	100	Viva
	Total	18	6	10	34	600	600	300	1500	

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B. Tech FINAL YEAR TEXTILE TECHNOLOGY (TT) 8th SEMESTER

'F' Scheme w.e.f 2012-13

Course No.	Course Title			ichi iedu		Marks of Class work	Exam	ination	Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
TT-402-F	Post Extrusion Operations	3	1	-	4	50	100	-	150	3
TT-404-F	Spinning Technology	3	1	-	4	50	100	-	150	3
TT-406-F	Complex Textiles	3	1	-	4	50	100	-	150	3
TT-408-F	Engineering of Textile Structures-II	3	1	-	4	50	100	-	150	3
TT-410-F	Technical Textiles OR Global Scenario of Textile Industry	3	1	•	4	50	100	-	150	3
CSE-412-F		3	1	ī	4	50	100	-	150	3
TT-414-F	Textile Colour & Design	-	94	3	3	50		50	100	4
TT-416-F	Computer Networking Practical	-	-	3	3	50	-	50	100	4
TT-418-F	Seminar	-	-	2	2	200	•	-	200	-
TT-420-F	Project Work	-	-	2	2	100	-	100	200	Viva
	Total	18	6	10	34	700	600	200	1500	

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MAHRASHSI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B. Tech 2nd YEAR MECHANICAL ENGINEERING, 3rd SEMESTER

Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title			ng Scl	nedule	Marks for class work		ks for ination	Total Marks	Duration of Exam
MATONE		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
HUM-203-F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
ME-201-F	Thermodynamics	3	1	-	4	50	100	-	150	3
ME-203-F	Computer Aided Design	3	1	_	4	50	100	-	150	3
ME-205-F	Engineering Mechanics	3	1		4	50	100	-	150	3
ME-207-F	Material Science	3	1	-	4	50	100			
ME-209-F	Machine Drawing	1		3	4	50		7.0	150	3
ME-211-F	Computer Aided Design Lab		-	2	2	25	-	50 25	50	3
ME-213-F	Engineering Mechanics Lab		-	2	2	25		25	50	3
ME-215-F	Materials Science Lab	-		2	2	25		25	50	3
	Total	19	6	10	34/35	425	600	125	1150	1 - T

Director,

THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

COORDINATOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech 2nd YEAR MECHANICAL ENGINEERING, 4th SEMESTER

Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Tea	ching	Sche	dule	Marks for class work		ks for ination	Total Marks	Duratio n of Exam
		L	T	P	Total	His sale	Theory	Practical		
MAT-201-F	Mathematics-III	3	2	-	5	50	100	-	150	3
or	or	or	or		or			22		
HUM-201-F	Engineering Economics	3	1		4					
ME-202-F	Manufacturing Technology-I	3	1	-	4	50	100	5 - .	150	3
ME-204-F	Kinematics of Machine	3	1	Ī	4	50	100	1	150	3
ME-206-F	Strength of Materials-I	3	1		4	50	100	-	150	3
ME-208-F	Fluid Mechanics	3	1	-	4	50	100	1117	150	3
ME-210-F	Steam & Power	3	1	T-T	4	50	100	-	150	3
	Generation				1.	***		400		
ME-212-F	Kinematics of		-	2	2	25	1	25	50	3
	Machine Lab									
ME-214-F	Strength of Materials Lab	-	-	2	2	25		25	50	3
ME-216-F	Fluid Mechanics	-	-	2	2	25	-	25	. 50	3
ME-218-F	Steam & Power Generation Lab	-	-	2	2	25	-	25	50	3
GP-202-F	General Proficiency	- 1	-	2	2	50	-	-	50	
	Total	18	6	9	34/35	450	600	100	1150	

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IQAC COORDINATOR Director,

THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES, BHIWANI

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- V Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teac	hing	schedu	ile	Marks For class work	Marks Examin	10 - 15 9 C C C C C C C C C C C C C C C C C C	Total Marks	Duratio n of Exam
		L	T	P	Total		Theory	Practic al		
	- Of Machines	3	1	-	4	50	100		150	3
ME-301-F	Dynamics Of Machines				-	50	100	-	150	4
ME-303-F	Mechanical Machine Design-1	3	2	-	5	30	133		1.50	3
	Fluid Machine	3	1	-	4	50	100	-	150	
ME-305-F	Acceptable in the second secon		-		4	50	100	-	150	3
ME-307-F	Internal Combustion Engines &	3	1	-	4	30		100		3
	Gas Turbines	3	1	-	4	50	100	-	150	3
ME-309-F	Manufacturing Technology -II			1108	12	50	100	-	150	3
ME-311-F	Applied Numerical Technique	3	-	-	3	30	100			3
	& Computing Dynamics Of Mechanics Lab	-	- 1	2	2	25		25	50	3
ME-313-F				-	10	25		25	50	3
ME-315-F	Fluid Machine Lab	-	-	2	2	23				3
William I was	Internal Combustion Engines	100						25	50	3
ME-317-F	& Gas Turbines Lab	-	-	2	2	25	-	0.5	50	3
	Manufacturing Technology –II	1-	-	2	2	25	-	25	50	3
ME-319-F									50	-
ME 201 E	Applied Numerical Technique	-	-	2	2	50		-	30	
ME-321-F	& Computing Lab				9					
ME-323-F		-	-	2	2	-				
ME-323-F	- Caratana de la Cara	18	6	12	36	450	600	10	0 115	0
	Total	10	1	12						

Note:

- 1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
- 2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

STITUTE OF

IQAC COORDINATO Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- VI

Proposed "F" Scheme effective from 2011-12

Course	Se Course Title		COMPANIE OF	g sche		Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	Т	P	Total		Theory	Practi cal		
ME-302-F	Automobile Engineering	3	1		4	50	100	-	150	3
ME-304-F	Mechanical Machine Design-II	3	2	-	5	50	100	-	150	4
ME-306-F	Heat Transfer	3	1		4	50	100	-	150	3
ME-308-F	Automatic Control	3	1	-	4	50	100	-	150	3
ME-310-F	Measurement & instrumentation	3	1	-	4	50	100	-	150	3
ME-312-F	Industrial Engineering	3	1	-	4	50	100	-	150	3
ME-314-F	Automobile Engineering Lab	-	-	2	2	25	-	25	50	3
ME-316-F	Heat Transfer Lab	-	-	2	2	25		25	25	3
ME-318-F	Measurement & instrumentation Lab	-	-	2	2	25	-	25	25	3
ME-320-F	General Proficiency	-	-	2	2	50			50	-
	Total	18	7	8	33	450	600	100	1050	4

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

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2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

Director,

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER-VII (Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Course	Course Title	Teac	hing s	chedu	ile	Marks For class	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total	work	Theory	Practical		
ME-401-F	Strength of Material-II	3	1	-	4	50	100	ar 12 -	150	3
ME-403-F	Refrigeration & Air- Conditioning	3	1	ī	4	50	100		150	3
ME-405-F	Operation Research	3	1	-	4	50	100	-	150	3
ME-407-F	Power Plant Engineering	3	1	-	4	50	100		150	3
ME-409-F	Mechanical Vibration	3.	1	-	4	50	100	-	150	3
WIE 107 1	Elective	3	1	-	4	50	100	-	150	3
ME-411-F				2	2	50		50	100	3
ME-413-F	The second secon		-	2	2	50	5 x 1	100	150	3
ME-415-F		-	-	2	2	-		-	-	-
GFME- 435-F	General Fitness for the Profession			-		-		50	50	3
733-1	Total	18	6	6	30	400	600	200	1200)

LIST OF ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME- 425-F	COMPUTER INTEGRATED MANUFACTURING
5.	ME- 429-F	RELIABILITY ENGINEERING
6.	ME-431-F	SOLAR ENERGY ENGINEERING

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Director,

THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

MAHARSHI DAYANAND UNIVERSITY, ROHTAK SCHEME OF STUDIES & EXAMINATIONS B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VIII (Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

El No. Course No.	Subject	Internal Marks	External Marks	Total Marks
Sl. No. Course No. ME- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

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FASHION & APPAREL ENGINEERING

SEMESTER-I

S.No	Course No.	Subject	Schedule					ination edule		Duratio n of Exam
	MD4 501		L	P	Total	Class	Theory		Total	Exam
1	MFA 501	Structure & Properties of Fibres, Fabrics and	4	0	4	50	100	0	150	3
		Modern Technology of Fabric and Apparel Production	4	0	4	50	100	0	150	3
		Advanced Textile and Garment designing concepts	4	0	4	50	100	0	150	3
		Computer application in textile & fashion industry	4	0	4	50	100	0	150	3
5		Production Planning & Operation Management	4	0	4	50	100	0	150	3
0.		TOTAL	20	0	20	250	500		750	

NOTE:

- The paper setter shall set each theory paper of 100 marks 1. covering the entire syllabus and the same will be evaluated on marks.
- The Sessionals of Theory/Practical Courses shall also be evaluated 2. on the basis of marks.

The choice of students for any elective shall not be binding on the 3. Deptt. to offer it.

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THE TECHNOLOGICAL INSTITUTE

OF TEXTILE & SCIENCES, BHIWANI

M.D.UNIVERSITY, ROHTAK (HARYANA) SCHEME OF STUDIES & EXAMINATION FOR MASTER OF TECHNOLOGY COURSE IN FASHION & APPAREL ENGINEERING

SEMESTER-II

S.No	Course No.	Subject			hing dule	Ех		n Schedu arks)	ıle	Duratio n of Exam
			L	P	Total	Class	Theory	Practica	Total	
1	MFA 502	Operations Research & Statistics of	4	0	4	50	100	0	150	3
2	MFA 504	Technical Textiles & Smart Garments	4	0	4	50	100	0	150	3
3	MFA 506	Developments in Specialty Yarns &	4	0	4	50	100	0	150	3
4	MFA 508	Theory & Design of Garment Machinery	4	0	4	50	100	0	150	3
5	MFA 510	Environment Management & Eco-friendly	4	0	4	50	100	0	150	3
6	MFA 512	Modern methods of Apparel Merchandising & Management	4	0	4	50	100	0	150	3
		TOTAL	24	0	24	300	600	0	900	

NOTE:

- 1. The paper setter shall set each theory paper of 100 marks covering the entire syllabus and the same will be evaluated on marks.
- 2. The Sessionals of Theory/Practical Courses shall also be evaluated on the basis of marks.

3. The choice of students for any elective shall not be binding on the Deptt. to offer it.

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M.D.UNIVERSITY, ROHTAK (HARYANA) SCHEME OF STUDIES & EXAMINATION FOR MASTER OF TECHNOLOGY COURSE IN FASHION & APPAREL ENGINEERING

SEMESTER-III

S.No	Course No.	Subject			ning dule	Ex		on Sched	ule	Durati on of Exam
			L	P	Total	Class work	Theory	Practical	Total	
1	MFA 601	Research Methodology	4	0	4	50	100	0	150	3
2	MFA	Elective -I	4	0	4	50	100	0	150	3
3	MFA	Elective -II	4	0	4	50	100	0	150	3
4	MFA 611	Seminar on Advanced Topics	-	3	3	50		-50	100	3
5	MFA 613	Minor Project	-	4	4	50	-	50	100	3
		TOTAL	20	0	19	250	300		650	

NOTE:

- 1. The paper setter shall set each theory paper of 100 marks covering the entire syllabus and the same will be evaluated on marks.
- 2. The Sessionals of Theory/Practical Courses shall also be evaluated on the basis of marks.
- 3. The choice of students for any elective shall not be binding on the Deptt. to offer it.

Elective -I

MFA - 603: Automation of Apparel Production

MFA – 605: Apparel Production Cad/CAM systems

Elective - II

MFA - 607: Computer-aided Pattern Design

MFA - 609: Utility Properties of cloth, materials

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SEMESTER-IV

Course No.	Subject				Ex		ıle	Duration of Exam (Hours)	
		L	P	Total	Class work	Theory	Practical	Total	
MFA 602	Dissertation	-	20	20	300	0	450	750	3
	No.	No.	No.	No. Sche	No. Schedule	No. Schedule L P Total Class work	No. Schedule (Ma	No. Schedule (Marks) L P Total Class work Theory Practical	No. Schedule (Marks) L P Total Class work Theory Practical Total

NOTE:

- 1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e., A+, A,B,C,D & E
- 2. The Dissertation shall be evaluated by an examination committee consisting of the Head of the Department, Dissertation supervisor and one external examiner. The evaluation shall be based on the above grades.
- 3. The grading system is defined at the end of the Scheme of the Studies and Examinations.

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M. Tech TI

SCHEME OF STUDIES FOR THE FOUR SEMESTERS

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

M.TECH (FIRST SEMESTER)

Index No.	Title of Papers Hours per week	
TT 501	Developments in Fibre Production	4
TT 503	Structure and Properties of Fibres	4
MA 505	Advanced Mathematics & Computer Programming	4
Any one grou	up 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
		20
SECOND	SEMESTER	N I
MA 502	Operations Research & Design of Experiments	4
EN 504	Instrumentation and Automatic Control	4
TT 506	Developments in Texturing	4
11300	Developments in Texturing	4

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
		24

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 g	roup of the Electives					
Group A			- 12	A Part of the second		
TT 507	Theory & Design of Spinning Machinery	1	3	100	50	150
TT 509	Modern Technology of Fabric Production	1	3	10	50	150
Group B						
TC 507	Chemistry of Dyes		3	100	50	150
TC 509	Advance in Theory of Dyeing	1	3	100	50	150

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Director,

SCHEME OF STUDIES

THIRD SEMESTER

0			
Su	h	10	CT
Uu		, ~	~

Index No.	Theory Papers	Hours/Week
ȚT 601	Design of Experiments & Quality Control	4
TT 603	Technical Textiles	4
TT 605	Mid-term Evaluation of Project /Seminar	
FOURTH	SEMESTER	
TT/TC 60	2 Dissertation & Viva-Voce	(500)

Each student individually will carry out a project of an experimental and/or theoretical nature in one of the main branches of textile technology/textile chemistry and present his findings in a systematic manner in the Project Report duly approved and signed by his Supervisor / Guide (to be nominated by the Director, TITS). Each candidate would submit three Project Report to Director, TITS at least 15 days before the commencement of fourth semester examination. One copy of the Project Report will be returned to the candidate after viva-voce

examination. The original report and a carbon copy will be retained by the concerned Department / Institution and the Supervisor respectively.

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COORDINATO

SCHEME OF EXAMINATION

THIRD SEMESTER

Index No.	Theory Papers	No. of papers	Time (Hrs)	Marks of Papers	Marks of C/Work	Total Makrs
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
	FOUR	TH SEM	ESRTE	R		
TT/TC 602	Dissertation & Viva-Voce	1	2	500		500

SYLLABUS - Third Semester

TT 601

Design of Experiments & Quality Control

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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 carve.

Section III (4 questions)

M. Tech

M.D. UNIVERSITY SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING) **SEMESTER 1st**

CBCS Scheme effective from 2016-17

			T	eaching	g Sche	dule	Ex	amination (Mai		le	Duratio	19425 24
Sr. No	Course No.	ourse No. Subject	L	Т	р	Total Credi ts	Marks of Class works	Theor y	Practi cal	Total	of Exam (Hours)	No of hours/ week
1	16CSE21C1	Data Communication and Computer Networks	4	0	-	4	50	100	570	150	3	4
2	16CSE21C2	Advanced Operating Systems	4	0		4	50	100	-	150	3	4
3	16CSE21C3	Advanced Database Management System	4	0	-	4	50	100	2	150	3	4
4	16CSE21C4	Data Warehouse and Mining	4	0	-	4	50	100		150	3	4
5	16CSE21C5	Mathematical Foundation of Computer Science	4	0	-	4	50	100	-	150	3	4
6	16CSE21C6	Seminar				2	50	-		50		2
7	16CSE21CL1	Advanced Operating Systems Lab	-	-	2	2	50		50	100	3	2
8	16CSE21CL2	Advanced Database Management System Lab		-	2	2	50		50	100	3	2
		TOTAL			-	26						

NOTE:

Examiner will set nine question in total. Question one will be compulsory and will comprises of all section and remaining eight questions 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.

Director,

M.D. UNIVERSITY SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING) **SEMESTER 2nd**

CBCS Scheme effective from 2016-17

=			Tea	aching	g Sche	dule	Exa	amination (Mai		le	Durat ion	No of
Sr. No	Course No.	Subject	L	Т	Р	Tota I Cred its	Marks of Class works	Theor y	Practi cal	Total	of Exam (Hour s)	hours /wee k
1	16CSE22C1	Soft Computing	4	0	-	4	. 50	100	-	150	3	4
2	16CSE22C2	Algorithm Design	4	0	-	4	50	100		150	3	4
3	16CSE22C3	Seminar	-		2	2	50	1	-	50	-	2
4	16CSE22CL1	Soft Computing Lab	-		2	2	50	-	50	100	3	2
5	16CSE22CL2	Algorithm Design Lab	-	-	2	2	50	-	50	100	3	2
6	16CSE22D1 or 16CSE22D2 or 16CSE22D3 or 16CSE22D4	Elective-1	4	0	-	4	50	100	-	150	3	4
7		Open Elective				3	*					3
8		Foundation Elective				2						2
					1	23						

NOTE: Examiner will set nine question in total. Question One will be compulsory and will comprises of all section and remaining eight questions 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.

Elective 1: Choose any one from the following papers

16CSE22D1

Mobile and Wireless Communication

16CSE22D2

Optimization Techniques

16CSE22D3

Discrete Mathematics

16CSE22D4

Internet and Web Development

Elective 2

he University A candidate has to select this paper from the pool of Open Electives provided by

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Elective 3

Director

A candidate has to select this paper from the pool of Foundation Electives provided by the University STITUTE

OF TEXTILE & SCIENCES, BHIWANI

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING) **SEMESTER 3rd**

CBCS Scheme effective from 2017-18

SI. No	Course No.	Subject	Teaching Schedule					Durati on	No of hours/			
			Ļ	Т	P	Total credits	Marks of Class works	Theory	Practica	Total	of Exam (Hours	week
1	16CSE23C1	Knowledge Based System	4	0	-	4	50	100	-	150	3	4
2	16CSE23C2	Network Security	4	0	-	4	50	100	-	150	3	4
)	16CSE23C3	Literature Survey (Dissertation Stage 1)	-	-	2	2	100		-	100		4
4	16CSE23C4	Seminar	-		2	2	50		-	50		2
5	16CSE23CL1	Knowledge Based System Lab		-	2	2	50	- 1	50	100		2
6	16CSE23CL2	Project	7-1	-	2	2	50		50	100		2
7		Foundation Elective				2						
8		Open Elective				3						7
		TOTAL				21						

NOTE:

Examiner will set nine questions in total. Question One will be compulsory and will comprises of all sections and remaining eight questions 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.

Foundation Elective

A candidate has to select this paper from the pool of Foundation Electives provided by the University.

OPEN ELECTIVE

A candidate has to select this paper from the pool of open electives provided by the Director,

COORDIN

University.

M.D UNIVERSITY SCHEME OF STUDIES AND EXAMINATION M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING) SEMESTER 4th

CBCS Scheme effective from 2017-18

SI. No	Course No.	Subject	Teaching Schedule					No of Credits			
			L	Т	Р	Total	Marks of Class works	Theory	Practical	Total	
1.	16CSE24C1	Dissertation and viva (Dissertation Stage 2)	-	-	-		250		500	750	20
		TOTAL				-					

NOTE:

 Students have to publish a research paper in a journal / conference of the research work done in the semester.