

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

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

Course Notation	Course No.	Course Title	Teaching Schedule				Marks of class	Exam. Schedule		Total Marks	Durati Exam.	
			L	T	P	Total		Theory	Practical			
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3	
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3	
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3	
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3	
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3	
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3	
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3	
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3	
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4	
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3	
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3	
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3	
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3	
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3	
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3	
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3	
A	GES 106F	Environmental Studies	1	0	2	3	-	-	-	-	-	
<b>Total</b>			<b>19/19</b>	<b>45</b>	<b>8/11</b>	<b>400/425</b>	<b>600/500</b>	<b>100/200</b>	<b>1100/1125</b>			

Course Notation	Course No.	Course Title	Teaching Schedule				Marks of class	Exam. Schedule		Total Marks	Durati Exam.	
			L	T	P	Total		Theory	Practical			
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3	
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3	
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3	
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3	
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3	
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3	
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3	
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3	
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3	
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4	
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3	
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3	
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3	
B	CSE-103F	FCPC Lab	0	0	2	2	25	-	25	50	3	
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3	
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50		
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3	
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3	
A	GES 106F	Environmental Studies	1	0	2	3	-	-	-	-	-	
<b>Total</b>			<b>19/19</b>	<b>45</b>	<b>8/11</b>	<b>400/425</b>	<b>600/500</b>	<b>100/200</b>	<b>1100/1125</b>			



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**Director**  
 The Technological Institute of Textile & Sciences  
 BHIWANI

**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	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3	1	-	4	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,I C)	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	ELECTRICAL 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
	<b>TOTAL</b>	<b>18</b>	<b>7</b>	<b>9</b>	<b>33 Or 34</b>	<b>425</b>	<b>600</b>	<b>125</b>	<b>1150</b>	

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.

*Topal*  
**Director**  
The Technological Institute of Textile & Sciences  
**BHIWANI**



*Topal*



**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	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3	1	-	4	50	100	-	150	3
		3	2	-	5					
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	-	150	3
EE-206-F	COMMUNICATION SYSTEMS(ECE)	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
EE-226-F	COMMUNICATION SYSTEMS LAB (ECE)	-	-	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
	<b>TOTAL</b>	19	6 Or 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.
- Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.



*[Signature]*  
**Director**  
**The Technological Institute of Textile & Sciences**  
**BHIWANI**

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**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	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-301-F	COMMUNICATION Engg.	3	1	-	4	50	100	-	150	3
EE-303-F	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)	-	-	2	2	25	-	25	50	3
EE-325-F	ANALOG ELECTRONIC CIRCUITS LAB (EL,EI,IC)	-	-	2	2	25	-	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
<b>TOTAL</b>		<b>18</b>	<b>6</b>	<b>8</b>	<b>32</b>	<b>425</b>	<b>600</b>	<b>75</b>	<b>1100</b>	

**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.

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**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**

**Modified 'F' Scheme effective from 2011-12**

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
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	3
EE-306-F	VLSI Design	3	1	-	4	50	100	-	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-F	MICROCONTROLLER & EMBEDDED SYSTEM LAB	-	-	2	2	25	-	25	50	3
EE-326-F	DIGITAL SYSTEM DESIGN LAB (EL,EI, IC,EE,CSE, AEI)	-	-	2	2	25	-	25	50	3
EE-322-F	MICROWAVE AND RADAR LAB	-	-	2	2	25	-	25	50	3
EE-324-F	CONTROL SYTEMS ENGG. LAB (EL,EE, EEE,AEI)	-	-	2	2	25	-	25	50	3
	<b>TOTAL</b>	<b>18</b>	<b>6</b>	<b>8</b>	<b>32</b>	<b>400</b>	<b>600</b>	<b>100</b>	<b>1100</b>	

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.

*[Signature]*  
**Director**  
**The Technological Institute of Textile & Sciences**  
**BHIWANI**



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	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam	
		L	T	P	Total		Theory	Practical			
ECE-405-F	WIRELESS COMMUNICATION	3	1	-	4	50	100	-	150	3	
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	-	150	3	
ECE-407-F	DATA COMMUNICATION	3	1	-	4	50	100	-	150	3	
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1	-	4	50	100	-	150	3	
	*Dept Elective-I	3	1	-	4	50	100	-	150	3	
ECE-409-F	Digital Signal Processing	3	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	-	-	3	3	50	-	50	100	3	
GFEE-401-F	General Fitness For The Profession	-	-	-	-	-	-	50	50	3	
ECE-404-F	Practical Training II										
	<b>TOTAL</b>	<b>18</b>	<b>6</b>	<b>8</b>	<b>32</b>	<b>425</b>	<b>600</b>	<b>175</b>	<b>1200</b>		

*Director*  
The Technological Institute of Textile & Sciences  
BHIWANI





**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:**


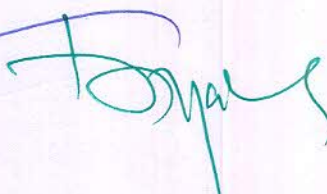
1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2. \*Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which 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.

**NOTE:-**

1. 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 of Textile & Sciences  
BHIWANI



M.D. UNIVERSITY, ROHTAK

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

SEMESTER VIII

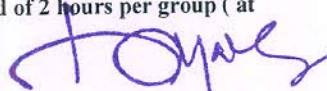
F ' Scheme Effective from 2012-2013

Training of Six Months

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-402-F	Industrial Training /Institutional Project work	-	-	8	8	150	-	150	300	-
	Total			8	8					

**Note:**

1. 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 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.
2. 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.
3. 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

