

**MAHARSHI DAYANAND UNIVERSITY, ROHTAK (HARYANA)**  
**SCHEME OF STUDIES & EXAMINATION FOR**  
**B. TECH. (ELECTRONICS AND COMPUTER ENGG.)**  
**SEMESTER-V**

**‘F’ Scheme effective from 2011-12**

Sr. No.	Course No.	Course Title	Teaching Schedule				Marks of class work	Examination		Total Marks	Duration Of Exam
			L	T	P	Total		Theory	Practical		
1	EC-511-F	Antenna and Wave Propagation	3	1	-	4	50	100	-	150	3
2	EC-512-F	Microprocessors and Interfacing	3	1	-	4	50	100	-	150	3
3	CSE-301-F	Principles of Operating Systems	3	1	-	4	50	100	-	150	3
4	IC-403-F	Embedded System Design	3	1	-	4	50	100	-	150	3
5	CSE-404-F	Advance JAVA	3	1	-	4	50	100	-	150	3
6	HUM-453-F	Human Resource Management	3	1	-	4	50	100	-	150	3
7	EC-515-F	Microprocessors and Interfacing Lab	-	-	2	2	50	-	50	100	3
8	EC-516-F	Electronic Circuit Simulation Lab	-	-	2	2	50	-	50	100	3
9	CSE-406-F	Advance JAVA Lab	-	-	2	2	50	-	50	100	3
10	EC-517-F	Practical Training	-	-	2	2	100	-	-	100	
		<b>TOTAL</b>	<b>18</b>	<b>6</b>	<b>8</b>	<b>32</b>	<b>550</b>	<b>600</b>	<b>150</b>	<b>1300</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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**SEMESTER-VI**

**‘F’ Scheme effective from 2011-12**

Sr. No.	Course No.	Course Title	Teaching Schedule				Marks of class work	Examination		Total Marks	Duration Of Exam
			L	T	P	Total		Theory	Practical		
1	EC-611-F	Control System Engineering	3	1	-	4	50	100	-	150	3
2	CSE-302-F	Principles of Software Engineering	3	1	-	4	50	100	-	150	3
3	CSE-206-F	Theory of Automata Computation	3	1	-	4	50	100	-	150	3
4	EC-614-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
5	EC-615-F	Information Security System	3	1	-	4	50	100	-	150	3
6	IT-305-F	Computer Networks	3	1	-	4	50	100	-	150	3
7	EC-616-F	Control System Lab	-	-	3	3	25	-	25	50	3
8	EC-618-F	Digital Signal Processing Lab	-	-	3	3	25	-	25	50	3
9	GP-CSE-302-F	General Proficiency	-	-	2	2	50	-	-	50	3
		<b>TOTAL</b>	<b>18</b>	<b>6</b>	<b>8</b>	<b>32</b>	<b>400</b>	<b>600</b>	<b>50</b>	<b>1050</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 undergone practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**

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**SCHEME OF STUDIES & EXAMINATION FOR**  
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**SEMESTER-VII**

**‘F’ Scheme effective from 2011-12**

Sr. No.	Course No.	Course Title	Teaching Schedule				Marks of class work	Examination		Total Marks	Duration Of Exam
			L	T	P	Total		Theory	Practical		
1	EC-711-F	System Simulation and Modeling	3	1	-	4	50	100	-	150	3
2	EC-712-F	Compiler Design	3	1	-	4	50	100	-	150	3
3	IT-401-F	Data Warehousing & Data Mining	3	1	-	4	50	100	-	150	3
4		<b>Elective I*</b>	3	1	-	4	50	100	-	150	3
5	EE-402-F	Wireless Communication	3	1	-	4	50	100	-	150	3
6	EC-715-F	System Simulation and Modeling Lab	-	-	3	3	50	-	50	100	3
7	CSE-411-F	Compiler Design Lab	-	-	3	3	50	-	50	100	3
8	CSE-315-F	Practical Training-II	-	-	2	2	-	-	-	-	3
9	CSE-413-F	Project	-	-	4	4	50	-	50	100	3
		<b>TOTAL</b>	<b>15</b>	<b>5</b>	<b>12</b>	<b>32</b>	<b>400</b>	<b>500</b>	<b>150</b>	<b>1050</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. \*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. 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.**

**4. Project load will be treated as 2 hours per week for Project Coordinator and 1 hour for each participating teacher. Project will commence in VII semester where the students will identify the Project problem, complete the design/procure the**

**material/start the fabrication/complete the survey etc., depending upon the nature of the problem. Project will continue in VIII semester.**

**Elective-I**

- |               |   |
|---------------|---|
| 1. PHY-451-F  | NANO Technology                             |
| 2. HUM-457-F  | Business Communication                      |
| 3. CSE-432-F  | Digital Image Processing                    |
| 4. CSIT-401-F | Mobile Computing                            |
| 5. CSIT-402-F | Cyber Crime Investigation & Cyber Forensics |
| 6. IT-472-F   | Introduction to VLSI Design                 |
| 7. CSE-446-F  | Natural Language Processing                 |
| 8. EC-821-F   | Digital IC Design                           |
| 9. CSE-407-F  | Neural Networks                             |

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**SEMESTER –VIII**

**‘F’ Scheme Effective from 2011-2012**

Sr. No.	Course No.	Course Title	Teaching Schedule				Marks of class work	Examination		Total Marks	Duration Of Exam
			L	T	P	Total		Theory	Practical		
1	CSE-305-F	Analysis and Design of Algorithms	3	1	-	4	50	100	-	150	3
2	EC-812-F	Satellite Communication	3	1	-	4	50	100	-	150	3
3		<b>Elective-1</b>	3	1	-	4	50	100	-	150	3
4		<b>Elective-2</b>	3	1	-	4	50	100	-	150	3
5	EC-815-F	Satellite Communication Lab	-	-	2	4	50	-	50	100	3
6	CSIT-410-F	Seminar	-	-	4	4	50	-	-	50	3
7	CSE-413-F	Project	-	-	8	8	100	-	100	200	3
8	GP-SSE-402-F	General Proficiency	-	-	-	-	-	-	-	-	
		<b>TOTAL</b>	12	4	14	32	400	400	150	950	

**NOTE:-**

- 1. Students will be allowed to use the non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
- 2. 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.**
- 3. Project load will be treated as 2 hrs. per week for the project coordinator and 1 hour for each participating teacher. Project involving design, fabrication, testing, computer simulation, case studies etc., which has been commenced by students in VII semester, will be completed in VIII semester.**

## **ELECTIVE-1**

- |              |  |
|--------------|--|
| 1. HUM-451-F | Language Skill for Engineers             |
| 2. CSE-442-F | Human Computer Interaction               |
| 3. EC-818-F  | Telecommunication-Switching and Networks |
| 4. EC-819-F  | Mixed Signal IC Design                   |
| 5. EC-820-F  | Low Power Design                         |
| 6. EC-722-F  | Bioinformatics                           |
| 7. EC-822-F  | Analog IC Design                         |
| 8. EC-823-F  | MEMS                                     |

## **Elective-II**

- |              |                                     |
|--------------|-------------------------------------|
| 1. CSE-444-F | Fuzzy Logic                         |
| 2. CSIT-404  | Parallel Computation & Applications |
| 3. CSE-403-F | Software Project Management         |
| 4. IT-471-F  | Management Information System       |
| 5. IT-464-F  | Network Security Management         |
| 6. CSE-401-F | Advanced Computer Architecture      |
| 7. CSE-402-F | Distributed Operating Systems       |
| 8. CH-453-F  | Pollution & Control                 |