

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

**Common with (Electronics and Telecommunication Engineering)**

**SEMESTER –7<sup>th</sup> w.e.f. 2021-22**

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	Theory	Practical	Total	
1	Professional Elective Course	Refer to Annexure-I	Professional Elective-III	3	3	0	6	3	25	75	-	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 Propagation	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-317-G	Constitution of India	2	0	0	2	Refer Note:1 (Grading)					
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	3
<b>TOTAL CREDIT</b>								<b>21.5</b>	<b>200</b>	<b>375</b>	<b>125</b>	<b>700</b>	

**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.

## **Annexure I**

### **Professional Elective-III**

<b>S. No.</b>	<b>Course Code</b>	<b>Course Title</b>
1	PEC-ECE-409-G	Wireless Communication
2	PEC-ECE-410-G	Mobile Communication and Networks

### **Professional Elective-IV**

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

### **Professional Elective-V**

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

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**SEMESTER –8<sup>th</sup> w.e.f. 2021-22**

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	Theory	Practical	Total	
1	Professional Elective Course	Refer to Annexure-II	Professional Elective-VI	3	3	0	6	3	25	75	-	100	3
2	Professional Core Course	PCC-ECE-403-G	Satellite Communication	3	3	0	6	3	25	75	-	100	3
3	Professional Core Course	PCC-ECE-404-G	Microwave theory and techniques	3	3	0	6	3	25	75	-	100	3
5	Professional Core Course	LC-ECE-406-G	Wireless & Satellite Communication Lab	0	0	2	2	1.5	25	-	25	50	3
6	Open Elective Course	Refer to Annexure-III	Open Elective	3	0	0	6	3	25	75	-	100	3
7	Project	PROJ-ECE-408-G	Project Work II/ Dissertation	-	-	8	8	6	100	-	150	250	3
<b>TOTAL CREDIT</b>								<b>19.5</b>	<b>225</b>	<b>300</b>	<b>175</b>	<b>700</b>	

**Note:**

1. Choose any one subject from Elective-VI.
2. Choose any one subject from Open Elective

## **Annexure-II**

### **Professional Elective-VI**

<b>S. No.</b>	<b>Course Code</b>	<b>Course Title</b>
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**

<b>S. No.</b>	<b>Course Code</b>	<b>Course Title</b>
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