

DAV UNIVERSITY, JALANDHAR

DAV UNIVERSITY JALANDHAR



Course Scheme & Syllabus

**Master of Technology
(Part Time)**

In

Electronics & Communication Engineering

Session 2016–2017 (Onwards)

DAV UNIVERSITY, JALANDHAR

M Tech (Electronics & Communication engineering)-Part Time

Sem	Course Code	Course Title	L	T	P	Cr	Nature of Course
1	MGT551	RESEARCH METHODOLOGY	4	0	0	4	Core
1	ECE501	ADVANCE COMMUNICATION SYSTEM	4	0	0	4	Core
1	ECE504	ADVANCED COMMUNICATION ENGINEERING LABORATORY	0	0	3	2	Core
			8	0	3	10	
Sem	Course Code	Course Title	L	T	P	Cr	Nature of Course
2	ECE506	ADVANCE DIGITAL SIGNAL PROCESSING	4	0	0	4	Core
2	ECE508	INFORMATION AND COMMUNICATION THEORY	4	0	0	4	Core
2	ECE509	SIGNAL PROCESSING LABORATORY	0	0	3	2	Core
			8	0	3	10	
Sem	Course Code	Course Title	L	T	P	Cr	Nature of Course
3	ECE502	ADVANCE OPTICAL COMMUNICATION	4	0	0	4	Core
3	ECE601	ANTENNA ENGINEERING- ANALYSIS AND DESIGN	4	0	0	4	Core
3	ECEXXX	DEPARMENT ELECTIVE 1	4	0	0	4	DSE-1
			12	0	0	12	
Sem	Course Code	Course Title	L	T	P	Cr	Nature of Course
4	ECEXXX	DEPARTMENTAL ELECTIVE 2	4	0	0	4	DSE-2
4	ECEXXX	DEPARTMENTAL ELECTIVE 3	4	0	0	4	DSE-3
4	-	GENERIC ELECTIVE 1	4	0	0	4	GE-1
4	ECE505A	RESEARCH SEMINAR	0	0	3	2	Seminar
			12	0	3	14	
Sem	Course Code	Course Title	L	T	P	Cr	Nature of Course
5	ECEXXX	DEPARTMENTAL ELECTIVE 4	4	0	0	4	DSE-4
5	-	GENERIC ELECTIVE 2	4	0	0	4	GE-2
5	ECE604A	DISSERTATION PART - 1	0	0	0	8	TD&P
			8	0	0	16	
Sem	Course Code	Course Title	L	T	P	Cr	Nature of Course
6	ECE605A	DISSERTATION PART - 2	0	0	0	12	TD&P
			0	0	0	12	
<i>TOTAL</i>			48	0	9	74	

DAV UNIVERSITY, JALANDHAR

Department Specific Elective-I

Sr no	Paper Code	Course Title	L	T	P	Cr	Specialization
1	ECE503	MICROELECTRONICS	4	0	0	4	VLSI and Embedded Design
2	ECE551	DIGITAL IMAGE PROCESSING	4	0	0	4	Signal Processing
3	ECE507	MOBILE AD-HOC NETWORKS	4	0	0	4	Wireless Communication
4	ECE552	OPTO-ELECTRONIC DEVICES	4	0	0	4	Optical Communication

Department Specific Elective-II

Sr no	Paper Code	Course Title	L	T	P	Cr	Specialization
1	VLS502	LOGIC SYNTHESIS USING HDL	4	0	0	4	VLSI and Embedded Design
2	ECE561	BIOMEDICAL SIGNAL PROCESSING	4	0	0	4	Signal Processing
3	ECE562	WIRELESS SENSOR NETWORKS	4	0	0	4	Wireless Communication
4	ECE563	OPTICAL NETWORKS	4	0	0	4	Optical Communication

Department Specific Elective-III

Sr no	Paper Code	Course Title	L	T	P	Cr	Specialization
1	VLS507A	VLSI ARCHITECTURES	4	0	0	4	VLSI and Embedded Design
2	ECE571	AUDIO AND SPEECH PROCESSING	4	0	0	4	Signal Processing
3	ECE572	WIRELESS AND MOBILE COMMUNICATION	4	0	0	4	Wireless Communication
4	ECE573	OPTICAL SWITCHING AND WAVELENGTH ROUTING	4	0	0	4	Optical Communication

Department Specific Elective-IV

Sr no	Paper Code	Course Title	L	T	P	Cr	Specialization
1	VLS523	EMBEDDED SYSTEMS	4	0	0	4	VLSI and Embedded Design
2	ECE651	ADAPTIVE SIGNAL PROCESSING	4	0	0	4	Signal Processing
3	ECE652	MODERN RADAR SYSTEMS	4	0	0	4	Wireless Communication
4	ECE653	PHOTONICS	4	0	0	4	Optical Communication

L: Lectures T: Tutorial P: Practical Cr: Credits

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Generic Electives

S. No	Course Code	Course Title	L	T	P	Cr.
1	ELE901	RENEWABLE ENERGY SOURCES	4	0	0	4
2	ELE902	ENERGY AUDIT AND MANAGEMENT	4	0	0	4
3	CHL901	ANALYTICAL TECHNIQUES	4	0	0	4
4	CHL902	POLLUTION ABATMENT AND CONTROL EQUIPMENT'S	4	0	0	4
5	MEC901	METHODS ENGINEERING AND ERGONOMICS	4	0	0	4
6	MEC902	POWER PLANT ENGINEERING	4	0	0	4
7	CSE901	SOFT COMPUTING	4	0	0	4
8	CSE902	MOBILE COMMUNICATIONS	4	0	0	4
9	ECE901	SMART SENSORS	4	0	0	4
10	ECE902	SILICON CHIP TECHNOLOGY	4	0	0	4
11	CIV901	TRANSPORTATION ENGINEERING	4	0	0	4
12	CIV902	WATER RESOURCE ENGINEERING	4	0	0	4
13	MGT051	BUSINESS STRATEGY	4	0	0	4
14	MGT052	PRINCIPLES OF MARKETING	4	0	0	4