For

C&C, C&CE

(Applicable for batches admitted from 2016-2017)



S. No.	Subject	L	P	C
1	Digital System Design	4	-	3
2	Advanced Computer Architecture	4	-	3
3	Wireless Communications and Networks	4	-	3
4	Digital Data Communications	4	-	3
5	Elective I I. Data Base Management Systems II. Information Theory and Coding Techniques III. Big Data Analytics	4	-	3
6	Elective II I. Internet Protocols II. Image & Video Processing III. Objective Oriented Programming	4	-	3
7	System Design & Data Communications Lab		3	2
	Total Credits			

S. No.	Subject	L	P	C	
1	Advanced Operating Systems	4	-	3	
2	Advanced Computer Networks	4	-	3	
3	Advanced Digital Signal Processing	4	-	3	
4	Optical Communications and Networks	4	-	3	
	Elective III	4	_	3	
	I. EMI / EMC				
5	II. Internet of Things				
	III. Soft Computing Techniques				
	IV. Cyber Security				
	Elective IV	4	-	3	
6	I. Embedded System Design				
0	II. Radar Signal Processing				
	III. Network Security & Cryptography				
7	Advanced Communications Lab	-	3	2	
	Total Credits				

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

COMMUNICATION SYSTEMS

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Detection & Estimation Theory	4	-	3
2	Digital Data Communications	4	-	3
3	Optical Communication Technology	4	-	3
4	Advanced Digital Signal Processing	4	-	3
5	Elective I I. Radar Signal Processing II.RF Circuit Design III. Advanced Computer Networks	4	-	3
6	Elective II I. Wireless LANs and PANs II. Mobile Computing Technologies III. Network Security & Cryptography	4	-	3
7	Optical & Data Communications Laboratory	-	3	2
	Total Credits			

S. No.	Name of the Subject	L	P	C
1	Coding Theory and Applications	4	-	3
2	Wireless Communications and Networks	4	-	3
3	Image and Video Processing	4	-	3
4	Software Defined Radio	4	-	3
5	Elective III I. Soft Computing Techniques II. Internet Protocols III. Cyber Security	4	-	3
6	Elective IV I. Optical Networks II. DSP Processors and Architectures III. Radio and Navigational Aids	4	-	3
7	Advanced Communications Laboratory	-	3	2
Total Credits				20

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

DECS, ECE, DECE

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Digital System Design	4	-	3
2	Detection & Estimation Theory	4	-	3
3	Digital Data Communications	4	-	3
4	Advanced Digital Signal Processing	4	-	3
5	Elective I I. Transform Techniques II. VLSI Technology & Design III. Radar Signal Processing	4	-	3
6	Elective II I. Statistical Signal Processing II. Optical Communication Technology III. Network Security & Cryptography	4	-	3
7	1. System Design & Data Communications Lab	-	3	2
Total Credits				20

S. No.	Name of the Subject	L	P	C
1	Coding Theory & Applications	4	-	3
2	Embedded System Design	4	-	3
3	Image and Video Processing	4	-	3
4	Wireless Communications & Networks	4	-	3
	Elective III			
	I. CMOS Analog & Digital IC Design			
5	II. Advanced Computer Architecture	4	-	3
	III. Soft Computing Techniques			
	IV. Cyber Security			
	Elective IV			
6	I. DSP Processors and Architectures	4		3
0	II. EMI / EMC	4	_	3
	III. Object Oriented Programming			
7	Advanced Communications Laboratory	-	3	2
	Total Credits			

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

DSCE

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Digital System Design	4	-	3
2	VLSI Technology and Design	4	-	3
3	Digital Data Communications	4	-	3
4	Advanced Computer Architecture	4	-	3
5	Elective I I. Wireless Communications and Networks II. Digital Design Using HDL III. Internet Protocols	4	-	3
6	Elective II I. Software Defined Radio II. Network Security and Cryptography III. Image & Video Processing	4	-	3
7	System Design & Data Communications Lab	-	3	2
Total Credits				20

S. No.	Name of the Subject	L	P	C
1	Embedded System Design	4	-	3
2	CMOS Analog and Digital IC Design	4	-	3
3	DSP Processors & Architecture	4	1	3
4	Design for Testability	4	1	3
5	Elective III I. System On Chip Design II. Soft Computing Techniques III. Cyber Security	4	ı	3
6	Elective IV I. Embedded Real Time Operating Systems II. High Speed Networks III. EMI/EMC	4	1	3
7	Embedded System Design Lab	-	3	2
	Total Credits			20

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

EMBEDDED SYSTEMS

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Digital System Design	4	1	3
2	Embedded System Design	4	-	3
3	Embedded Real Time Operating Systems	4	1	3
4	Embedded - C	4	-	3
5	Elective I 1. Sensors and Actuators 2. Network Security & Cryptography 3. Advanced Computer Architecture	4	-	3
6	Elective II 1. Embedded Computing 2. Soft Computing Techniques 3. Advanced Operating Systems 4. Cyber Security	4	1	3
7	Embedded C-Laboratory	-	3	2
	Total Credits			

S. No.	Name of the Subject	L	P	C
1	Hardware Software Co-Design	4	1	3
2	Digital Signal Processors and Architecture	4	1	3
3	Embedded Networking	4	1	3
4	CPLD and FPGA Architectures and Applications	4	-	3
5	Elective III 1. CMOS Mixed Signal Circuit Design 2. Micro Electro Mechanical System Design 3. Internet Protocols	4	1	3
6	Elective IV 1. System on Chip Design 2. Wireless LANs and PANs 3. Multimedia and Signal Coding	4	ı	3
7	Embedded System Design Laboratory	-	3	2
Total Credits				20

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

I&CS

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Transducers and Sensors	4	-	3
2	Digital Control Systems	4	-	3
3	Fiber Optic Sensors and Devices	4	-	3
4	Digital System Design	4	-	3
	Elective I			
	1. Adaptive Control Systems	4 -		
5	2. Soft Computing Techniques		ı	3
	3. Cyber Security			
	4. Object Oriented Programming			
	Elective II			
6	Fuzzy Based Control Systems	4	4	2
0	2. VLSI Technology and Design	4	-	3
	3. Advanced Digital Signal Processing			
7	Transducers & Instrumentation Lab	-	3	2
Total Credits				20

S. No.	Name of the Subject	L	P	C
1	Data Acquisition Systems	4	-	3
2	Bio-Medical Instrumentation	4	-	3
3	Process Control Instrumentation	4	-	3
4	Embedded System Design	4	-	3
5	Elective III1. Non Linear and Optimal Control Systems2. PC Based Instrumentation3. DSP Processors & Architecture	4	-	3
6	Elective IV 1. EMI / EMC 2. Control and guidance systems 3. Analytical Instrumentation	4	-	3
7	Process Control Instrumentation Lab		3	2
Total Credits				

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
	Total Credits			20

For

MICROWAVE & COMMUNICATION ENGINEERING

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	С
1	Advanced Electro Magnetic Theory	4	-	3
2	Microwave Components & Measurements	4	-	3
3	Microwave Solid State Devices	4	-	3
4	Digital Data Communications	4	-	3
5	Elective I 1. Microwave Integrated Circuits 2. Advanced Digital Signal Processing 3. Detection & Estimation Theory	4	-	3
6	Elective II 1. Optical Communication Technology 2. Statistical Signal Processing 3. Soft Computing Techniques 4. Cyber Security	4	-	3
7	Microwave Measurements Lab	-	3	2
	Total Credits			20

S. No.	Name of the Subject	L	P	C
1	Advanced Antenna Theory & Design	4	-	3
2	Phased Array Systems	4	-	3
3	Software Defined Radio	4	-	3
4	Wireless Communications & Networks	4	-	3
5	Elective III 1. Microwave Networks 2. EMI / EMC 3. Radio & Navigational Aids	4	-	3
6	Elective IV 1. Smart Antennas 2. RF Circuit Design 3. Radar Signal Processing	4	-	3
7	Antenna Simulation Laboratory	_	3	2
	Total Credits			20

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

SSP, DIP, CE&SP AND IP

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Coding Theory and Applications	4	-	3
2	Transform Techniques	4	-	3
3	Advanced Digital Signal Processing	4	-	3
4	Digital Data Communications	4	-	3
5	Elective I 1. Statistical Signal Processing 2. Network Security and Cryptography 3. Pattern Recognition Principles	4	-	3
6	Elective II 1. Speech Processing 2. Soft Computing Techniques 3. Object Oriented Programming 4. Cyber Security	4	-	3
7	Signal Processing Laboratory	-	3	2
	Total Credits			20

S. No.	Name of the Subject	L	P	C
1	Adaptive Signal Processing	4	-	3
2	Image & Video Processing	4	-	3
3	Detection and Estimation Theory	4	-	3
4	DSP Processors and Architectures	4	-	3
5	Elective III 1. Computer Vision 2. Embedded System Design 3. Bio-Medical Signal Processing	4	-	3
6	Elective IV 1. Internet Protocols 2. Radar Signal Processing 3. Wireless Communications & Networks	4	-	3
7	Advanced Signal Processing Laboratory	1	3	2
	Total Credits		·	20

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

TELEMATICS

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Telecommunication Switching Systems	4	1	3
2	Optical Communication Technology	4	-	3
3	Mobile Cellular Communications	4	1	3
4	Digital Data Communications	4	1	3
	Elective I			
5	1. Stochastic Signal Processing	4		2
3	2. Software Defined Radio	4	-	3
	3. Radio and Navigational Aids			
	Elective II			
	1. Digital System Design			
6	2. Cyber Security	4	-	3
	3. Network Security and Cryptography			
	4. Advanced Computer Networks			
7	Wireless Communications Lab	-	3	2
	Total Credits			20

S. No.	Name of the Subject	L	P	C
1	Internet Protocols	4	-	3
2	Coding Theory and Applications	4	-	3
3	Wireless Communication & Networks	4	-	3
4	Telematics and Control	4	-	3
5	Elective III 1. Internet of Things 2. Adhoc Networks 3. Multi Media Signal Coding	4	-	3
6	Elective IV 1. DSP Processors and Architectures 2. GPS 3. Design for Testability	4	-	3
7	Advanced Communications Lab	-	3	2
	Total Credits			20

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

VLSI&ES, ES&VLSI, VLSID&ES

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Digital System Design	4	-	3
2	VLSI Technology and Design	4	-	3
3	CMOS Analog IC Design	4	-	3
4	Hardware Software Co-Design	4	-	3
5	Elective I 1. Embedded - C 2. CMOS Digital IC Design 3. Soft Computing Techniques 4. Cyber Security	4	1	3
6	Elective II 1. Advanced Operating Systems 2. System on Chip Design 3. Network Security and Cryptography	4	-	3
7	VLSI Laboratory	-	3	2
Total Credits			20	

S. No.	Name of the Subject	L	P	C
1	Embedded System Design	4	-	3
2	CMOS Mixed Signal Circuit Design	4	-	3
3	Embedded Real Time Operating Systems	4	-	3
4	Design For Testability	4	ı	3
5	Elective III 1. DSP Processors & Architectures 2. Low Power VLSI Design 3. VLSI Signal Processing	4	ı	3
6	 Elective IV Micro Electro Mechanical Systems (MEMS) Design CPLD and FPGA Architectures and Applications. Semiconductor Memory Design and Testing. 	4	ı	3
7	Embedded System Design Laboratory	_	3	2
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	

For

VLSI, VLSID, VLSISD

(Applicable for batches admitted from 2016-2017)



S. No.	Name of the Subject	L	P	C
1	Digital System Design	4	-	3
2	VLSI Technology and Design	4	-	3
3	CMOS Analog IC Design	4	-	3
4	CMOS Digital IC Design	4	-	3
5	Elective I 1. Digital Design using HDL 2. Advanced Operating Systems 3 Soft Computing Techniques 4. Cyber Security	4	-	3
6	Elective II 1. CPLD and FPGA Architectures and Applications 2. Advanced Computer Architecture 3. Hardware Software Co-Design	4	-	3
7	Front end VLSI Design Laboratory	-	3	2
Total Credits				20

S. No.	Name of the Subject	L	P	C
1	CMOS Mixed Signal Circuit Design	4	-	3
2	Embedded System Design	4	-	3
3	Low Power VLSI Design	4	-	3
4	Design For Testability	4	-	3
5	Elective III 1. CAD for VLSI 2. DSP Processors & Architectures 3. VLSI Signal Processing	4	-	3
6	Elective IV 1. System on Chip Design 2. Optimization Techniques in VLSI Design 3. Semiconductor Memory Design and Testing	4	-	3
7	Back end VLSI Design Laboratory	-	3	2
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce			2
2	Seminar – I			2
3	Project Work Part – I			16
Total Credits			20	

S. No.	Subject	L	P	Credits
1	Seminar – II			2
2	Project Work Part - II			18
Total Credits			20	