University of Engineering & Management, Jaipur

Third Semester							
Theory							
Sl No.	**Type**	**Subject Code**	**Topic**	**L**	**T**	**P**	**Credit Points**
1	BS	BM301	Mathematics & Statistics-II	3	0	0	3
2	EC	ECC301	Electronics Devices	3	0	0	3
3	EC	ECC302	Analog Circuits	3	0	0	3
4	EC	ECC303	Network Theory	3	1	0	3
5	EC	ECC304	Signals and Systems	3	0	0	3
6	HS	GSC303	ESP & SDP-III	2	0	0	2
7	BS	BIO301	Biology for Engineers	2	0	0	1
8		NPT301	(NPTEL)	-	-	-	2
			Total Credits (Theory)				20
## NPTEL courses are based on the respective year's offered course							
Practical							
Sl No.	**Type**	**Subject Code**	**Topic**	**L**	**T**	**P**	**Credit Points**
1	EC	ECC391	Electronic Devices Lab	0	0	2	1
2	EC	ECC392	Analog Circuits Lab	0	0	2	1
2	EC	ECC394	Signals & Systems Lab	0	0	2	1
3	ES	OEC381	Data Structure and Algorithm (Sessional)	0	0	2	1
4	ECP	INT-301	Mini PROJECT I	0	0	2	1
			Total Credits (Practical)				5
			Total Credits (Semester)				25

Department of Electronics & Communication Engineering

University of Engineering & Management, Jaipur

			Fourth Semester				
			Theory				
SI No.	Type	Subject Code	Topic	L	T	P	Credit Points
1	EC	ECC401	Microcontrollers	3	0	0	3
2	EC	ECC402	Digital System Design	3	0	0	3
3	EC	ECC403	Analog and Digital Communication	3	0	0	3
4	ES	ECC404	Object Oriented Programming	2	0	0	2
5	HS	GSC404	ESP & SDP- IV	2	0	0	2
6	BS	BM401	Mathematics & Statistics IV	3	0	0	3
7		MC401	Environmental Science(non-credited)	-	-	-	0
		NPT401	(NPTEL/MOOCs)				2
			Total Credits (Theory)				18
			## NPTEL courses are based on the respective year's offered course				
			Practical				
SI No.		Subject Code	Topic	L	T	P	Credit Points
1	EC	ECC492	Digital System Design Lab	0	0	2	1
2	EC	ECC491	Microcontrollers Lab	0	0	2	1
3	ES	ECC494	Object Oriented Programming	0	0	2	1
4	EC	ECC493	Analog and Digital Communication lab	0	0	2	1
6	ECP	INT-401	Mini Project-II	0	0	4	2
			Total Credits (Practical)				6
			Total Credits (Semester)				24

Department of Electronics & Communication Engineering

University of Engineering & Management, Jaipur

Fifth Semester								
Theory								
Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points	
1	EC	ECC501	Electromagnetic Waves	3	0	0	3	
2	EC	ECC502	Digital Signal Processing	3	0	0	3	
3	EC	ECC503	Computer Architecture	3	0	0	3	
4	ECEL	ECC504	**Program Elective:**	2	0	0	2	
			A. Bio-Medical Electronics					
			B. Information Theory and Coding					
			C. Scientific Computing					
			D. CMOS Design					
5	OE	OEC505	**Open Elective**	2	0	0	2	
			A. Probability Theory and Stochastic Processes					
			B. Cyber Law & Intellectual Property Rights					
			C. Artificial Intelligence & Expert Systems					
6	MC	MC501	Disaster Management	0	0	0	0	
7	HS	GSC505	Essentials studies for Professionals V	3	0	0	2	
8		NPT501	NPTEL				2	
			Total Credits (Theory)				17	
## NPTEL courses are based on the respective year's offered course								
Practical								
Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points	
1	EC	ECC591	Electromagnetic Waves Lab	0	0	2	1	
2	EC	ECC592	Digital Signal Processing Lab	0	0	2	1	
3	EC	ECC593	Computer Architecture Lab	0	0	2	1	
4	ECP	INT501	Internship/Mini Project-III	0	0	2	1	
5	ES	OEC581	Circuit Design using SPICE (Sessional)	1	0	3	2	
			Total Credits (Practical)				6	
			Total Credits (Semester)				23	

Department of Electronics & Communication Engineering

University of Engineering & Management, Jaipur

Sixth Semester

Theory

Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points
1	HS	HSM601	Principles of Management	2	0	0	2
2	EC	ECC601	Control Systems	3	0	0	3
3	EC	ECC603	Computer Network	2	0	0	3
4	ECEL	ECC604	**Program Elective:**	2	0	0	2
			A. Nano Electronics				
			B. Speech and Audio Processing				
			C. Power Electronics				
			D. Introduction to MEMS				
			E. Antennas and Propagation				
5	OE	OEC605	**Open Elective:**	2	0	0	2
			A. Database Management Systems				
			B. Internet Of Things				
			C. Cloud Computing				
			D. Software Engineering				
6	HS	GSC606	ESP & SDP VI	3	0	0	1
7		NPT601	NPTEL				2
			Total credits				16

NPTEL courses are based on the respective year's offered course

Practical

Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points
1	EC	ECC691	Control Systems Lab	0	0	2	1
2	EC	ECC692	Computer Network Lab	0	0	4	1
3	ES	OEC681	Machine Learning Theory & Lab (Sessional)	0	0	2	2
4	ECP	INT601	Mini Project/Electronics Design Workshop	0	0	4	2
			Total Credit (Practical)				6
			Total Credit (Semester)				22

Department of Electronics & Communication Engineering

University of Engineering & Management, Jaipur

**Seventh Semester**							
Theory							
SI No.	Type	Subject Code	Topic	L	T	P	Credit Points
1	HU	HSM701	Financial Accounting & Economics	2	1	0	3
2	ECEL	ECC701	**Program Elective 1:**	3	0	0	3
			A. Renewable Energy				
			B. Fiber Optic Communications				
			C. Adaptive Signal Processing				
3	ECEL	ECC702	**Program Elective 2:**	3	0	0	3
			A. Microwave Theory and Techniques				
			B.Satellite Communication				
			C. Embedded systems				
4	ECEL	ECC703	**Program Elective 3:**	3	0	0	3
			A. Industrial Automation and Control				
			B. VLSI Design Automation				
			C. Digital Image and Video Processing				
4	OE	ECC704	**Open Elective**	3	0	0	3
			A. Optimisation Technique				
			B. Entrepreneurship				
			C. Web technology				
			D. Deep Learning				
5	HS	GSC707	ESP & SDP VII	2	0	0	1
			Total credits (Theory)				16

Department of Electronics & Communication Engineering

University of Engineering & Management, Jaipur

SI No.	Type	Subject Code	Topic	L	T	P	Credit Points
Eighth Semester								

			Eighth Semester				
			Theory				
SI No.	**Type**	**Subject Code**	**Topic**	**L**	**T**	**P**	**Credit Points**
1	ECEL	PEC801	**Program Elective 1**	3	0	0	3
			A. Wireless Sensor Networks				
			B. Mixed Signal Design				
			C. Wavelets				
2	ECEL	PEC802	**Program Elective 2**	3	0	0	3
			A. Sensors & Transducers				
			B. Error Correcting Codes				
			C. Microwave Integrated Circuits				
3	OE	PEC803	**Open Elective 1**	3	0	0	3
			A. Organisational Behaviour				
			B. Cyber Security				
4	OE	PEC804	**Open Elective 2**	3	0	0	3
			A. Data Science Using Python				
			B. Big Data Analysis				
5	HS	GSC808	ESP & SDP - VIII	2	0	0	1
			Total credits (Theory)				13
			Practical				
SI No.		**Subject Code**	**Topic**	**L**	**T**	**P**	**Credit Points**
1	ECP	ECP881	Project	0	0	15	7.5
2	ECP	ECP882	Grand Viva				1.5
			Total Credit (Practical)				9
			Total Credit (Semester)				22

Department of Electronics & Communication Engineering