For

CIVIL ENGINEERING

(Applicable for batches admitted from 2016-2017)



S. No.	Subjects	L	T	P	Credits
1	Management Science	4	-		3
2	Engineering Geology	4	-		3
3	Structural Analysis -II	4			3
4	Design & Drawing of Reinforced Concrete Structures	4	2		3
5	Transportation Engineering - II	4	ľ		3
6	Concrete Technology Lab		-	3	2
7	Geology Lab			3	2
8	Transportation Engineering Lab			3	2
	Total Credits		·		21

III Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Design & Drawing of Steel Structures	4	2		3
2	Geotechnical Engineering - I	4			3
3	Environmental Engineering -I	4			3
4	Water Resource Engineering -I	4			3
5	i. Electronic Instrumentation ii. Data Base Management Systems iii. Alternative Energy Sources iv. Waste water Management v. Fundamentals of Liquefied Natural Gas vi. Green Fuel Technologies	4			3
6	Geotechnical Engineering Lab			3	2
7	Environmental Engineering Lab			3	2
8	Computer Aided Engineering Lab			3	2
	Total Credits				21

S. No.	Subjects	${f L}$	T	P	Credits
1	Environmental Engineering - II	4			3
2	Water Resource Engineering - II	4	-	-	3
3	Geotechnical Engineering - II	4			3
4	Remote Sensing & GIS Applications	4			3
5	i. Finite Element Methods ii. Ground Improvement Techniques iii. Air Pollution & Control iv. Urban Hydrology v. Traffic Engineering	4	1	1	3
6	i. Advanced Structural Engineering ii. Advanced Foundation Engineering iii.Environmental Impact Assessment & Management iv.Ground Water Development v. Pavement Analysis and Design	4	ł	1	3
7	IPR & Patents		2		
8	GIS & CAD Lab			2	2
9	Irrigation Design & Drawing			2	2
	Total Credits	-			22

IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Estimation Specification & Contracts	4			3
2	Construction Technology & Management	4			3
3	Prestressed Concrete	4			3
4	 i. Bridge Engineering ii. Soil Dynamics and Foundations iii. Solid and Hazardous Waste	4			3
5	Seminar on Internship Project		3		2
6	Project				10
	Total Credits				24

For

COMPUTER SCIENCE AND ENGINEERING

(Applicable for batches admitted from 2016-2017)



S. No.	Subjects	L	T	P	Credits
1	Compiler Design	4	1	1	3
2	Unix Programming	4			3
3	Object Oriented Analysis and Design using UML	4			3
4	Database Management Systems	4	-	1	3
5	Operating Systems	4			3
6	Unified Modeling Lab		I	3	2
7	Operating System & Linux Programming Lab			3	2
8	Database Management System Lab		-	3	2
MC	Professional Ethics & Human Values		3		
	Total Credits				21

III Year - II Semester

S. No.	Subjects	${f L}$	T	P	Credits
1	Computer Networks	4	2	1	3
2	Data Warehousing and Mining	4	-	1	3
3	Design and Analysis of Algorithms	4			3
4	Software Testing Methodologies	4			3
5	Open Elective: i. Artificial Intelligence ii. Internet of Things iii Cyber Security iv.Digital Signal Processing v.Embbeded Systems vi. Robotics	4	-1-	-1-	3
6	Network Programming Lab	1	Ī	3	2
7	Software Testing Lab	-		3	2
8	Data Warehousing and Mining Lab			3	2
9	IPR & Patents		2		
	Total Credits				21

S. No.	Subjects	L	T	P	Credits
1	Cryptography and Network Security	4			3
2	Software Architecture & Design Patterns	4			3
3	Web Technologies	4			3
4- HS	Managerial Economics and Financial Analysis	4			3
5	Elective-I i. Big Data Analytics ii. Information Retrieval Systems iii. Mobile Computing	4	-1		3
6	Elective-II i. Cloud Computing ii. Software Project Management iii. Scripting Languages	4	1		3
7	Software Architecture Design Patterns Lab			3	2
8	Web Technologies Lab			3	2
	Total Credits				22

IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Distributed Systems	4	1		3
2- HS	Management Science	4			3
3	Machine Learning	4			3
4	Elective-III i.Concurrent and Parallel Programming ii.Artificial Neural Networks iii. Operations Research	4	1		3
5	Seminar		3		2
6	Project		1		10
	Total Credits				24

For

ELECTRONICS AND COMMUNICATION ENGINEERING

(Applicable for batches admitted from 2016-2017)



S.No.	Subjects	L	T	P	Credits
1	Computer Architecture and	4			3
1	Organization				
2	Linear I C Applications	4			3
3	Digital I C Applications	4			3
4	Digital Communications	4			3
5	Antenna and Wave Propagation	4			3
6	Pulse and Digital Circuits Lab			3	2
7	Linear I C Applications Lab	1		3	2
8	Digital I C Applications Lab			3	2
MC	Professional Ethics & Human Values		3		
	Total Credits				21

III Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Micro Processors & Micro Controllers	4			3
2	Micro Wave Engineering	4		-	3
3	VLSI Design	4			3
4	Digital Signal Processing	4			3
5	OPEN ELECTIVE 1. OOPs through Java 2. Data Mining 3. Industrial Robotics 4. Power Electronics 5. Bio-Medical Engineering 6.Artificial Neural Networks	4			3
6	Micro Processors & Micro Controllers Lab			3	2
7	VLSI Lab			3	2
8	Digital Communications Lab			3	2
MC	IPR & Patents		2		
	Total Credits				21

S.No.	Subjects	L	T	P	Credits
1	Radar Systems	4			3
2	Digital Image Processing	4	-	-	3
3	Computer Networks	4			3
4	Optical Communications	4			3
5	Elective I 1. TV Engineering 2. Electronic Switching Systems 3. System Design through Verilog	4			3
6	Elective II 1.Embedded Systems 2. Analog IC Design 3.Network Security & Cryptography	4			3
7	Micro Wave Engineering & Optical Lab			2	2
8	Digital Signal Processing Lab			2	2
	Total Credits				22

IV Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Cellular Mobile Communications	4		-	3
2	Electronic Measurements and	4			3
	Instrumentation				
3	Satellite Communications	4			3
4	Elective III 1. Wireless sensors & Networks 2. Digital IC Design 3. Operating Systems	4			3
5	Seminar		3		2
6	Project				10
	Total Credits				24

Total Course Credits = 48+44+42+46=180

For

ELECTRICAL AND ELECTRONICS ENGINEERING

(Applicable for batches admitted from 2016-2017)



III Year – I Semester

S. No	Subjects	L	T	P	Credits
1	Power Systems-II	4			3
2	Renewable Energy Sources	4			3
3	Signals and Systems	4			3
4	Pulse & Digital Circuits	4			3
5	Power Electronics	4			3
6	Electrical Machines-II Laboratory			3	2
7	Control Systems Laboratory			3	2
8	Electrical Measurements Laboratory			3	2
9-MC	IPR & Patents		2		
Total Credits				21	

III Year – II Semester

S. No	Subjects	L	T	P	Credits
1	Power Electronic Controllers & Drives	4			3
2	Power System Analysis	4			3
3	Micro Processors and Micro controllers	4			3
4	Data Structures	4			3
5	Open Elective 1. Unix and Shell Programming 2. OOPS Through JAVA 3. VLSI Design 4. Robotics 5. Neural Networks &Fuzzy Logic 6. Energy Audit and Conservation&	4		1	3
	Management			2	2
6	Power Electronics Laboratory			3	2
7	Microprocessors & Microcontrollers Laboratory			3	2
8	Data Structures Laboratory			3	2
9-MC	Professional Ethics & Human Values		3		
	Total Credits				21

S. No	Subjects	L	T	P	Credits
1	Utilization of Electrical Energy	4			3
2	Linear IC Applications	4			3
3	Power System Operation & Control	4			3
4	Switchgear and Protection	4			3
5	Elective – I: 1. Electrical Machine Modeling and Analysis 2. Advanced Control Systems 3. Programmable Logic Controllers& Applications 4. Instrumentation	4			3
6	Elective – II: 1. Optimization Techniques 2. Electric Power Quality 3. Special Electrical Machines	4			3
7	Electrical Simulation Laboratory			2	2
8	Power Systems & Simulation Laboratory			2	2
	Total Credits	-			22

IV Year - II Semester

S. No	Subjects	L	T	P	Credits
1	Digital Control Systems	4			3
2	HVDC Transmission	4			3
3	Electrical Distribution Systems	4			3
4	Elective – III: 1. High Voltage Engineering 2. Flexible Alternating Current Transmission Systems 3. Power System Reforms	4			3
5	Seminar		3		2
6	Project				10
	Total Credits				24