

2015-16

COURSE STRUCTURE**I Year – I SEMESTER**

S. No.	Subject	T	P	Credits
1	English – I	3+1*	--	3
2	Mathematics - I	3+1*	--	3
3	Engineering Chemistry	3+1*	--	3
4	Engineering Mechanics	3+1*	--	3
5	Environmental Studies	3+1*	--	3
6	Computer Programming	3+1*	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English – Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English - II	3+1*	--	3
2	Mathematics – II (Mathematical Methods)	3+1*	--	3
3	Mathematics – III	3+1*	--	3
4	Engineering Physics	3+1*	--	3
5	Professional Ethics and Human Values	3+1*	--	3
6	Engineering Drawing	1	3	3
7	English-Communication Skills Lab - II	--	3	2
8	Engineering Physics Laboratory	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engineering Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Electrical & Electronics Engineering	3+1*	--	3
2	Probability & Statistics	3+1*	--	3
3	Strength of Materials-I	3+1*	--	3
4	Building Materials and Construction	3+1*	--	3
5	Surveying	3+1*	--	3
6	Fluid Mechanics	3+1*	--	3
7	Surveying Field work-I	--	3	2
8	Strength of Materials Lab	--	3	2
Total Credits				24

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Building Planning & Drawing	3+1*	--	3
2	Managerial Economics and Financial Analysis	3+1*	--	3
3	Strength of Materials- II	3+1*	--	3
4	Hydraulics and Hydraulic Machinery	3+1*	--	3
5	Concrete Technology	3+1*	--	3
6	Structural Analysis - I	3+1*	--	3
7	Fluid Mechanics and Hydraulic Machinery Lab	--	3	2
8	Concrete Technology Lab	--	3	2
9	Surveying Field work-II	--	3	2
Total Credits				24

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Engineering Geology	3+1*	--	3
2	Structural Analysis – II	3+1*	--	3
3	Design and Drawing of Reinforced Concrete Structures	3+1*	--	3
4	Geotechnical Engineering – I	3+1*	--	3
5	Transportation Engineering – I	3+1*	--	3
6	IPR & Patents	3+1*	--	2
7	Geotechnical Engineering Lab	--	3	2
8	Engineering Geology Lab	--	3	2
Total Credits				21

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Design and Drawing of Steel Structures	3+1*	--	3
2	Geotechnical Engineering – II	3+1*	--	3
3	Water Resources Engineering-I	3+1*	--	3
4	Environmental Engineering – I	3+1*	--	3
5	Transportation Engineering – II	3+1*	--	3
6	OPEN ELECTIVE	3+1*	--	3
7	Computer Aided Engineering Drawing	--	3	2
8	Transportation Engineering Lab	--	3	2
Total Credits				22

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w.e.f. 2010-2011 academic year



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA-533003, Andhra Pradesh (India)

CIVIL ENGINEERING

COURSE STRUCTURE

IV YEAR		I SEMESTER		
S. No.	Subject	T	P	Credits
1	Geotechnical Engineering-II	4	--	4
2	Design & Drawing of Irrigation Structures	4	--	4
3	Environmental Engineering	4	--	4
4	Remote Sensing and GIS Applications	4	--	4
5	ELECTIVE -I a) Earthquake Resistant Design b) Ground Improvement Techniques c) Urban Transportation Planning	4	--	4
6	OPEN ELECTIVE a) Air Pollution and Control b) Disaster Management c) Industrial Water & Waste Water Management d) Architecture and Town Planning	4	--	4
7	GIS and CAD Lab	-	3	2
8	Water and Wastewater Engineering Lab	-	3	2
		Total		28
IV YEAR		II SEMESTER		
S. No.	Subject	T	P	Credits
1	Estimation, Specifications & Contracts	4	--	4
2	ELECTIVE - II a) Advanced Structural Design b) Ground Water Development and Management c) Environmental Impact Assessment and Management d) Quality Control and Quality Assurance	4	--	4
3	ELECTIVE - III a) Water Shed Management b) Finite Element Method c) Pavement Analysis and Design	4	--	4
4	ELECTIVE - IV a) Soil Dynamics and Machine Foundations b) Advanced Structural Analysis c) Water Resources System Planning and Management	4	--	4
5	Project Work	4	--	12
		Total		28

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COURSE STRUCTURE**I Year – I SEMESTER**

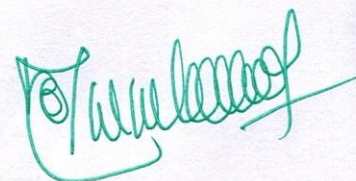
S. No.	Subject	T	P	Credits
1	English - I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Mathematics – II (Mathematical Methods)	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English – Communication Skills Lab - I	--	3	2
8	Engineering Physics Laboratory	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engineering Workshop & IT Workshop	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – III	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Electrical Circuit Analysis - I	3+1	--	3
6	Computer Programming	3+1	--	3
7	Engineering Chemistry Lab	--	3	2
8	English – Communication Skills Lab - II	--	3	2
9	C Programming lab	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Electrical Circuit Analysis-II	3+1	--	3
2	Thermal and Hydro Prime movers	3+1	--	3
3	Basic Electronics And Devices	3+1	--	3



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4	Complex Variables and Statistical Methods	3+1	--	3
5	Electro Magnetic Fields	3+1	--	3
6	Electrical Machines-I	3+1	--	3
7	Thermal and Hydro Lab	--	3	2
8	Electrical Circuits Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental studies	3+1	--	3
2	Switching Theory and Logic Design	3+1	--	3
3	Pulse & Digital Circuits	3+1	--	3
4	Power Systems-I	3+1	--	3
5	Electrical Machines-II	3+1	--	3
6	Control Systems	3+1	--	3
7	Electrical Machines -I Lab	--	3	2
8	Electronic Devices & Circuits Lab	--	3	2
Total Credits				22

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electrical Measurements	3+1	--	3
3	Power Systems-II	3+1	--	3
4	Electrical Machines-III	3+1	--	3
5	Power Electronics	3+1	--	3
6	Linear & Digital IC Applications	3+1	--	3
7	Electrical Machines-II Lab	--	3	2
8	Control Systems Lab	--	3	2
9	IPR & Patents	3+1		2
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Switchgear and Protection	3+1	--	3

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w.e.f. 2010-2011 academic year



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA-533003, Andhra Pradesh (India)

ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE

IV YEAR		I SEMISTER		
S. No.	Subject	T	P	Credits
1	Computer Organization	4	-	4
2	High Voltage Engineering *	4	-	4
3	Switch Gear & Protection *	4	-	4
4	Power System Operation & Control *	4	-	4
5	Open Elective *	4	-	4
6	Elective - I *	4	-	4
7	Microprocessors & Microcontrollers Lab	-	3	2
8	Electrical Simulation Lab *	-	3	2
Total				28

IV YEAR		II SEMISTER		
S. No.	Subject	T	P	Credits
1	Digital Control Systems *	4	-	4
2	Elective - II *	4	-	4
3	Elective - III *	4	-	4
4	Elective - IV *	4	-	4
5	Project *	-	-	12
Total				28

Total Credits Obtained: 38+58+56+56 = 208 Credits

Out of 208 Credits a Student who obtains a Minimum of 200 Credits (with the credits of all Laboratories and Project) is Eligible to get Degree.

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Open Elective:

1. Energy Audit, Conservation and Management
2. Instrumentation
3. Non Conventional Sources of Energy
4. Optimization Techniques

Elective – I:

1. VLSI Design
2. Electrical Distribution Systems
3. Optimization Techniques

Elective – II:

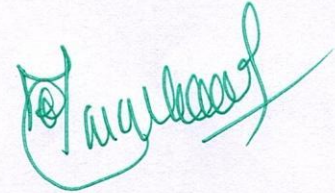
1. Advanced Control Systems
2. Extra High Voltage Transmission
3. Special Electrical Machines

Elective – III:

1. Non Conventional Sources of Energy
2. Digital Signal Processing
3. FACTS: Flexible Alternating Current Transmission Systems.

Elective-IV:

1. OOPS through Java
2. UNIX and Shell Programming
3. AI techniques



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COURSE STRUCTURE**I Year – I SEMESTER**

S. No.	Subject	T	P	Credits
1	English – I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	--	3
6	Environmental Studies	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – II (Mathematical Methods)	3+1	--	3
3	Mathematics – III	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English - Communication Skills Lab - II	--	3	2
8	Engineering Physics Lab	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engg. Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Metallurgy & Materials Science	3+1*	--	3
2	Mechanics of Solids	3+1*	--	3

3	Thermodynamics	3+1*	--	3
4	Managerial Economics & Financial Analysis	3+1*	--	3
5	Basic Electrical & Electronics Engineering	3+1*	--	3
6	Computer aided Engineering Drawing Practice	3+1*	--	3
7	Basic Electrical & Electronics Engg. Lab	--	3	2
8	Mechanics of Solids & Metallurgy lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Kinematics of Machinery	3+1*	--	3
2	Thermal Engineering -I	3+1*	--	3
3	Production Technology	3+1*	--	3
4	Fluid Mechanics & Hydraulic machinery	3+1*	--	3
5	Machine Drawing	3+1*	--	3
6	Fluid mechanics & Hydraulic machinery Lab	--	3	2
7	Production Technology Lab	--	3	2
8	Thermal Engineering Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Dynamics of Machinery	3+1*		3
2	Metal Cutting & Machine Tools	3+1*		3
3	Design of Machine Members-I	3+1*		3
4	Instrumentation & Control Systems	3+1*		3
5	Thermal Engineering -II	3+1*		3
6	Metrology	3+1*		3
7	Metrology & Instrumentation Lab		3	2
8	Machine Tools Lab		3	2
9	IPR & Patents		3	2
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Operations Research	3+1*		3
2	Interactive Computer Graphics	3+1*		3
3	Design of Machine Members– II	3+1*		3
4	Robotics	3+1*		3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*		3
7	Departmental Elective – I	3+1*		3
8	Heat Transfer Lab		3	2
Total Credits				23

IV Year – I SEMESTER

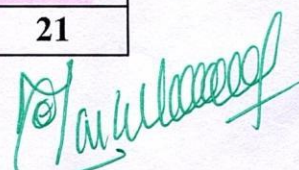
S. No.	Subject	T	P	Credits
1	Automobile Engineering	3+1*		3
2	CAD/CAM	3+1*		3
3	Finite Element Methods	3+1*		3
4	Unconventional Machining Processes	3+1*		3
5	Open Elective	3+1*		3
6	Departmental Elective – II	3+1*		3
7	Simulation Lab		3	2
8	Design/Fabrication Project		2	1
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Production Planning and Control	3+1*		3
2	Green Engineering Systems	3+1*		3
3	Departmental Elective – III	3+1*		3
4	Departmental Elective – IV	3+1*		3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- MEMS
- Nanotechnology



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IV YEAR I Semester

Code	Subject (Click on subject to view Syllabus)	T	P	C
1	Refrigeration & Air Conditioning	4	--	4
2	CAD/CAM	4	--	4
3	Alternative Source of Energy	4	--	4
4	Unconventional Machining Processes	4	--	4
5	Open Elective	4	--	4
	1. MEMS			
	2. Industrial Robotics (Except for Mechanical Students)			
6	Departmental Elective - I	4	--	4
	1. Automobile Engineering			
	2. Computational Fluid Dynamics			
	3. Condition Monitoring			
	4. Rapid Prototyping			
7	Simulation Lab	--	2	2
8	Advanced Communication skills lab	--	2	2
	TOTAL			28

IV YEAR II Semester

Code	Subject (Click on subject to view Syllabus)	T	P	C
1	Interactive Computer Graphics	4	--	4
2	Departmental Elective - II	4	--	4
	1. Metal Corrosion			
	2. Nanotechnology			
	3. Automation in Manufacturing			
	4. Industrial Hydraulics & Pneumatics			
3	Departmental Elective - III	4	--	4
	1. Non Destructive Evaluation			
	2. DBMS			
	3. Advanced Materials			
	4. Power Plant Engineering			
4	Departmental Elective - IV	4	--	4
	1. Production Planning and Control			
	2. Advanced Optimization Techniques			
	3. Gas Dynamics & Jet Propulsion			
	4. Quality and Reliability Engineering			
5	Project Work	--	--	12
	TOTAL			28


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COURSE STRUCTURE

I Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	English – I	3	--	3
2	Mathematics - I	3+1	--	3
3	Mathematics – II (Mathematical Methods)	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	1+3	--	3
7	English - Communication Skills Lab -1	--	3	2
8	Engineering Physics Laboratory	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engineering Workshop & IT Workshop	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3	--	3
2	Mathematics – III	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	--	3
6	Network Analysis	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab -2	--	3	2
9	Computer Programming Lab	--	3	2
Total Credits				24

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II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electronic Devices and Circuits	3+1	--	3
3	Data Structures	3+1	--	3
4	Environmental Studies	3	--	3
5	Signals & Systems	3+1	--	3
6	Electrical Technology	3+1	--	3
7	Electronic Devices and Circuits Lab	--	3	2
8	Networks & Electrical Technology Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Electronic Circuit Analysis	3+1	--	3
2	Management Science	3+1	--	3
3	Random Variables & Stochastic Processes	3+1	--	3
4	Switching Theory & Logic Design	3+1	--	3
5	EM Waves and Transmission Lines	3+1	--	3
6	Analog Communications	3+1	--	3
7	Electronic Circuit Analysis Lab	--	3	2
8	Analog Communications Lab	--	3	2
Total Credits				22

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Pulse & Digital Circuits	3+1	-	3
2	Linear IC Applications	3+1	-	3
3	Control Systems	3+1	-	3
4	Digital System Design & Digital IC Applications	3+1	-	3
5	Antennas and Wave Propagation	3+1	-	3
6	Pulse & Digital Circuits Lab		3	2
7	LIC Applications Lab	-	3	2
8	Digital System Design & DICA Lab		3	2
9	IPR& Patents	3		2
Total Credits				23

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Microprocessors and Microcontrollers	3+1	-	3
2	Digital Signal Processing	3+1	-	3
3	Digital Communications	3+1	-	3
4	Microwave Engineering	3+1	-	3
5	Open Elective	3+1	-	3
6	Microprocessors and Microcontrollers Lab	-	3	2
7	Digital Communications Lab	-	3	2
8	Digital Signal Processing Lab		3	2
9	Seminar		2	1
Total Credits				22

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w.e.f. 2010-2011 academic year



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA-533003, Andhra Pradesh (India)

ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE STRUCTURE

IV YEAR		I SEMESTER		
S. No.	Subject	T	P	Credits
1	Optical Communication	4	-	4
2	Embedded Systems	4	-	4
3	Digital Image Processing	4	-	4
4	Radar Systems	4	-	4
5	Open Elective	4	-	4
6	Elective - I	4	-	4
	1. Telecommunication Switching Systems			
	2. Analog IC Design			
	3. Object Oriented Programming			
7	Digital Signal Processing Lab	-	3	2
8	Microwave and Optical Communications Lab	-	3	2
Total				28

IV YEAR		II SEMESTER		
S. No.	Subject	T	P	Credits
1	Cellular and Mobile Communications	4	-	4
2	Elective - II	4	-	4
	1. Network Security & Cryptography			
	2. Satellite Communications			
3. Digital Control Systems				
3	Elective - III	4	-	4
	1. Operating Systems			
	2. Structured Digital Design			
3. Wireless Sensor Networks				
4	Elective - IV	4	-	4
	1. Analytical Instrumentation			
	2. Real Time Operating Systems			
3. TV Engineering				
5	PROJECT			12
Total				28

Open Electives:

1. Bio Medical Engineering
2. Image Processing
3. Signals & Communication Systems

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COURSE STRUCTURE

I Year – I SEMESTER

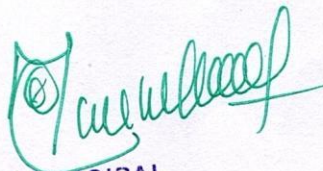
S. No.	Subject	T	P	Credits
1	English – I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	--	3
6	Environmental Studies	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – II (Mathematical Methods)	3+1	--	3
3	Mathematics – III	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English - Communication Skills Lab - II	--	3	2
8	Engineering Physics Lab	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engg. Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	4	--	3
2	Object Oriented Programming through C++	4	--	3
3	Mathematical Foundations of Computer Science	4	--	3
4	Digital Logic Design	4	--	3
5	Data Structures	4	--	3
6	Object Oriented Programming Lab	--	3	2
7	Data Structures Lab	--	3	2
8	Digital Logic Design Lab	--	3	2
9	Seminar	--	--	1
Total Credits				22


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II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Formal Languages and Automata Theory	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER


S. No.	Subject	T	P	Credits
1	Compiler Design	4	-	3
2	Data Communication	4	-	3
3	Principles of Programming Languages	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Compiler Design Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab		3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Engineering	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Engineering Lab	-	3	2
8	Web Technologies Lab	-	3	2
9	IPR and Patents- II	2	--	--
Total Credits				21

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective –I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2


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IV YEAR

I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	4
2	UML & Design Patterns	4	-	4
3	Data Ware Housing and Data Mining	4	-	4
4	Mobile Computing	4	-	4
5	Open Elective i. MATLAB (except CSE, IT, ECE, EEE) ii. Web Services (except CSE, IT) iii. Open Source Software iv. Cyber Laws	4	-	4
6	Elective -I: i. Computer Forensics ii. Cloud Computing iii. Software Project Management iv. Machine Learning v. Distributed Databases	4	-	4
7	UML & Design Patterns Lab	-	3	2
8	Mobile Application Development Lab	-	3	2
	Total			28

IV YEAR

II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective -II i) Human Computer Interaction ii) Advanced Operating Systems iii) Mobile Adhoc & Sensor Networks iv) Pattern Recognition v) Digital Image Processing	4	-	4
2	Elective -III i) Embedded and Real Time Systems ii) Simulation Modeling iii) Information Retrieval Systems iv) Artificial Intelligence v) Multimedia & Application Development	4	-	4
3	Elective -IV i) Software Testing Methodologies ii) Neural Networks & Soft Computing iii) Social Networks and the Semantic Web iv) Parallel Computing v) E- Commerce	4	-	4
4	Distributed Systems	4	-	4
5	Project	4	-	4
	Total			12

COURSE STRUCTURE

I Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	English – I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	-	3
6	Environmental Studies	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

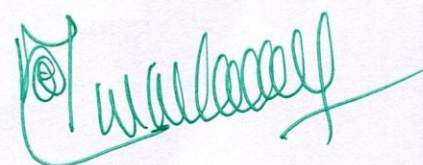
I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – II (Mathematical Methods)	3+1	--	3
3	Mathematics – III	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English - Communication Skills Lab - II	--	3	2
8	Engineering Physics Lab	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engg. Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	4	--	3
2	Object Oriented Programming through C++	4	--	3
3	Mathematical Foundations of Computer Science	4	--	3
4	Digital Logic Design	4	--	3
5	Data Structures	4	--	3
6	Object Oriented Programming Lab	--	3	2
7	Data Structures Lab	--	3	2
8	Digital Logic Design Lab	--	3	2
9	Seminar	--	--	1
Total Credits				22

II Year – II SEMESTER



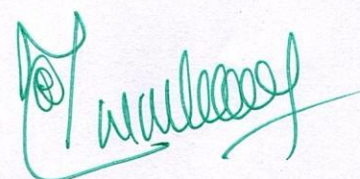
S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Language Processors (50% FLAT + 50% CD)	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Software Engineering	4	-	3
2	Data Communication	4	-	3t
3	Advanced JAVA	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Advanced JAVA Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab		3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Testing	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Testing Lab	-	3	2
8	Web Technologies Lab	-	3	2
10	IPR and Patents-II	2	--	--
Total Credits				21



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w.e.f. 2010-2011 academic year



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA-533003, Andhra Pradesh (India)

INFORMATION TECHNOLOGY

COURSE STRUCTURE

IV

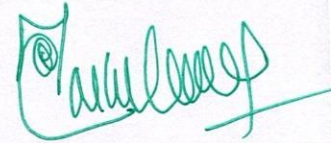
S. No.	Subject	I SEMESTER		
		T	P	Credits
1	Cryptography and Network Security	4	-	4
2	Design Patterns	4	-	4
3	Data Ware Housing and Data Mining	4	-	4
4	Mobile Computing	4	-	4
	Open Elective			
5	i. MATLAB ii. Web Services iii. Open Source Software iv. Cyber Laws	4	-	4
	Elective -I:			
6	i. Information Retrieval Systems ii. Parallel Computing iii. Distributed Systems iv. Artificial Intelligence v. Computer Architecture	4	-	4
7	UML & Design Patterns Lab	-	3	2
8	Mobile Application Development Lab	-	3	2
	Total			28

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IV YEAR

II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective –II	4	-	4
	i) Human Computer Interaction			
	ii) Advanced Operating Systems			
	iii) Mobile Adhoc & Sensor Networks			
	iv) Pattern Recognition			
v) Digital Image Processing				
2	Elective –III	4	-	4
	i) Embedded and Real time Systems			
	ii) Simulation and Modeling			
	iii) Computer Forensics			
	iv) Machine Learning			
v) Multimedia & Application Development				
3	Elective –IV	4	-	4
	i) Software Testing Methodologies			
	ii) Neural Networks & Soft Computing			
	iii) Social Networks and the Semantic Web			
	iv) Cloud Computing			
v) E- Commerce				
4	Software Project Management	4	-	4
5	Project			12
	Total			28



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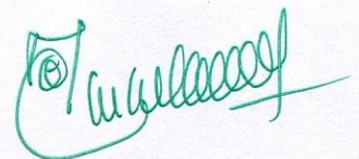
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
Specialization: COMPUTER SCIENCE & ENGINEERING
COURSE STRUCTURE

I SEMESTER

S.NO	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	-	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	-	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	-	3
4	DATABASE MANAGEMENT SYSTEMS	4	-	3
5	OPERATING SYSTEMS	4	-	3
6	SOFTWARE ENGINEERING	4	-	3
7	CSE LAB I	-	3	2
	TOTAL			20

II SEMESTER

1	INFORMATION SECURITY	4	-	3
2	COMPUTER NETWORKS	4	-	3
3	DATA WAREHOUSING AND DATA MINING	4	-	3
4	ELECTIVE 1 MOBILE COMPUTING COMPILER DESIGN HUMAN COMPUTER INTERACTION	4	-	3
5	ELECTIVE 2 IMAGE PROCESSING SOFT COMPUTING OBJECT ORIENTED ANALYSIS AND DESIGN	4	-	3
6	ELECTIVE 3 ADVANCED UNIX PROGRAMMING BIO INFORMATICS CLOUD COMPUTING	4	-	3
7	CSE LAB2		3	2
	TOTAL			20



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III SEMESTER				
S.NO.	SUBJECT	L	P	C
1	COMPREHENSIVE VIVA	—	—	2
2	SEMINAR-I	—	—	2
3	PROJECT WORK PART - I	—	—	16
	TOTAL			20

IV SEMESTER				
S.NO.	SUBJECT	L	P	C
1	SEMINAR-II	—	—	2
2	PROJECT WORK PART - II	—	—	18
	TOTAL			20



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

Specialization: Communication Systems

COURSE STRUCTURE

I SEMESTER

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

II SEMESTER				
1	1. Coding Theory & Applications	4	-	3
2	2. Embedded Real Time Operating Systems	4	-	3
3	3. Image and Video Processing	4	-	3
4	4. Wireless Communications & Networks	4	-	3
5	Elective III 1. CMOS Analog & Digital IC Design 2. Advanced Computer Architecture	4	-	3
6	Elective IV 1. DSP Processors and Architectures 2. EMI / EMC	4	-	3
7	Laboratory 1. Advanced Communications Laboratory	-	3	2

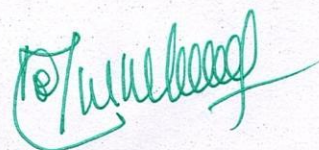
III – SEMESTER

1	Seminar	—	—	2
2	Project	—	—	18
	Total			20

IV – SEMESTER

1	Seminar	—	—	2
2	Project (Continued)	—	—	18
	Total			20

The project will be evaluated at the end of the IV Semester .



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MASTER OF COMPUTER APPLICATION

I SEMESTER

S.No	Subject	T	P
1	C PROGRAMMING AND DATA STRUCTURES	4	-
2	DIGITAL LOGIC AND COMPUTER ORGANIZATION	4	-
3	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	4	-
4	PROBABILITY AND STATISTICAL APPLICATIONS	4	-
5	ACCOUNTING AND FINANCIAL MANAGEMENT	4	-
6	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB		3
7	C PROGRAMMING AND DATA STRUCTURES LAB	-	3
8	DIGITAL LOGIC AND COMPUTER ORGANIZATION LAB	-	3

II SEMESTER

S.No	Subject	T	P
1	OOPS THROUGH JAVA	4	-
2	OPERATING SYSTEMS	4	-
3	ORGANIZATIONAL STRUCTURES AND HUMAN RESOURCE MANAGEMENT	4	-
4	OPTIMIZATION TECHNIQUES	4	-
5	BUSINESS DATA PROCESSING	4	-
6	OOPS THROUGH JAVA LAB	-	3
7	BUSINESS DATA PROCESSING LAB		3

III SEMESTER

S.No	Subject	T	P
1	DATA BASE MANAGEMENT SYSTEMS	4	-
2	COMPUTER COMMUNICATION	4	-
3	UNIX PROGRAMMING	4	-
4	MANAGEMENT INFORMATION SYSTEM	4	-
5	DESIGN AND ANALYSIS OF ALGORITHMS	4	-
6	DATA BASE MANAGEMENT SYSTEMS LAB	-	3
7	UNIX PROGRAMMING LAB	-	3



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IV SEMESTER

S.NO	SUBJECT	T	P
1	SOFTWARE ENGINEERING	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	ELECTIVE-I	4	-
	MOBILE COMPUTING		
	HUMAN COMPUTER INTERACTION		
	ERP & SUPPLY CHAIN MANAGEMENT		
5	ELECTIVE-II	4	-
	SOFTWARE TESTING METHODOLOGIES		
	ARTIFICIAL INTELLIGENCE		
	COMPUTER GRAPHICS		
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3

V SEMESTER

S.NO	SUBJECT	T	P
1	INFORMATION SECURITY	4	-
2	NETWORK PROGRAMMING	4	-
3	OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)	4	-
4	ELECTIVE-III	4	
	ANIMATION & GAMING		
	COMPUTER FORENSICS		
	E-COMMERCE		
5	ELECTIVE-IV	4	-
	MIDDLE WARE TECHNOLOGIES		
	MULTIMEDIA APPLICATION DEVELOPMENT		
	SOFTWARE PROJECT MANAGEMENT		
6	UML LAB	-	3
7	NETWORK PROGRAMMING LAB	-	3

VI SEMESTER

S.NO	SUBJECT		
1	PROJECT SEMINAR		
2	DISSERTATION/ THESIS EXCELLENT / GOOD / SATISFACTORY/ NOT SATISFACTORY		



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Course Structure MBA (Regular) 2013-2014

(Effective for the students admitted into first year from the academic year 2013-2014)

I SEMESTER

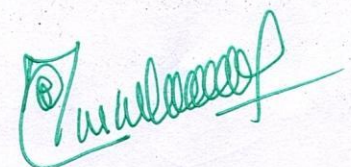
Subject	Title	Marks	Credits
1	Management Theory & Organization Behavior	100	3
2	Managerial Economics	100	3
3	Accounting for Managers	100	3
4	Managerial Communication & Soft Skills	100	3
5	Business Environment	100	3
6	Quantitative Analysis for Business Decision	100	3
7	IT - LAB	100	2

SEMESTER - II

Subject	Title	Marks	Credits
1	Financial Management	100	3
2	Human Resource Management	100	3
3	Marketing Management	100	3
4	Production and Operations Management	100	3
5	Business Research Methods	100	3
6	Business Ethics and Corporate Governance	100	3
7	Mini Project+Seminar on Mini Project	50+50	2+2

SEMESTER - III

Subject	Title	Marks	Credits
1	Strategic Management	100	3
2	Legal Aspects of Business	100	3
3	Retail Management	100	3
4	Elective -I	100	3
5	Elective -II	100	3
6	Elective -I	100	3
7	Elective -II	100	3



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SEMESTER - IV

Subject	Title	Marks	Credits
1	Logistic and Supply Chain Management	100	3
2	Entrepreneurship Development	100	3
3	Elective -III	100	3
4	Elective -IV	100	3
5	Elective -III	100	3
6	Elective -IV	100	3
7	Major Project & Comprehensive Viva	Grade	8
	Total Marks / Credits	2700	90

Dual Electives:

The elective papers will be offered in the areas of Marketing, Finance, Human Resource Management (HRM), and Systems. The students should choose any **Two** of the following **elective areas** in the beginning of the third semester of MBA. Specialization will be offered subject to a minimum of 20 students.

Marketing (Elective-I)

- I. Product Management
- II. Promotion and Distribution Management
- III. Services Marketing
- IV. Consumer Behavior

Finance (Elective-II)

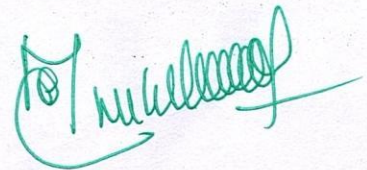
- I. Investment Management
- II. Banking and Insurance
- III. International Financial Management
- IV. Financial Risk Management

HRM (Elective-III)

- I. Compensation and Performance Management
- II. Management of Industrial Relations
- III. Global Human Resource Management
- IV. Management of Change and Development

Systems (Elective-IV)

- I. E-Business
- II. Enterprise Resource Planning
- III. Information Systems Audit & Control
- IV. Software Project Management



2016-17

I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	2	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering /Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Elements of Mechanical Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering / Applied Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24


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COURSE STRUCTURE

I Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	English – I	3+1*	--	3
2	Mathematics - I	3+1*	--	3
3	Engineering Chemistry	3+1*	--	3
4	Engineering Mechanics	3+1*	--	3
5	Environmental Studies	3+1*	--	3
6	Computer Programming	3+1*	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English – Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English - II	3+1*	--	3
2	Mathematics – II (Mathematical Methods)	3+1*	--	3
3	Mathematics – III	3+1*	--	3
4	Engineering Physics	3+1*	--	3
5	Professional Ethics and Human Values	3+1*	--	3
6	Engineering Drawing	1	3	3
7	English-Communication Skills Lab - II	--	3	2
8	Engineering Physics Laboratory	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engineering Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Electrical & Electronics Engineering	3+1*	--	3
2	Probability & Statistics	3+1*	--	3
3	Strength of Materials-I	3+1*	--	3
4	Building Materials and Construction	3+1*	--	3
5	Surveying	3+1*	--	3
6	Fluid Mechanics	3+1*	--	3
7	Surveying Field work-I	--	3	2
8	Strength of Materials Lab	--	3	2
Total Credits				22

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II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Building Planning & Drawing	3+1*	--	3
2	Managerial Economics and Financial Analysis	3+1*	--	3
3	Strength of Materials- II	3+1*	--	3
4	Hydraulics and Hydraulic Machinery	3+1*	--	3
5	Concrete Technology	3+1*	--	3
6	Structural Analysis - I	3+1*	--	3
7	Fluid Mechanics and Hydraulic Machinery Lab	--	3	2
8	Concrete Technology Lab	--	3	2
9	Surveying Field work-II	--	3	2
Total Credits				24

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Engineering Geology	3+1*	--	3
2	Structural Analysis – II	3+1*	--	3
3	Design and Drawing of Reinforced Concrete Structures	3+1*	--	3
4	Geotechnical Engineering – I	3+1*	--	3
5	Transportation Engineering – I	3+1*	--	3
6	IPR & Patents	3+1*	--	2
7	Geotechnical Engineering Lab	--	3	2
8	Engineering Geology Lab	--	3	2
Total Credits				21

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Design and Drawing of Steel Structures	3+1*	--	3
2	Geotechnical Engineering – II	3+1*	--	3
3	Water Resources Engineering–I	3+1*	--	3
4	Environmental Engineering – I	3+1*	--	3
5	Transportation Engineering – II	3+1*	--	3
6	OPEN ELECTIVE	3+1*	--	3
7	Computer Aided Engineering Drawing	--	3	2
8	Transportation Engineering Lab	--	3	2
Total Credits				22

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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental Engineering – II	3+1*	--	3
2	Prestressed Concrete	3+1*	--	3
3	Construction Technology and Management	3+1*	--	3
4	Water Resources Engineering–II	3+1*	--	3
5	Remote Sensing and GIS Applications	3+1*	--	3
6	ELECTIVE - I	3+1*	--	3
7	Environmental Engineering Lab	--	3	2
8	GIS & CAD Lab	--	3	2
Total Credits				22

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Estimating, Specifications & Contracts	3+1*	--	3
2	ELECTIVE –II	3+1*	--	3
3	ELECTIVE – III	3+1*	--	3
4	ELECTIVE – IV	3+1*	--	3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- Environmental Pollution and Control
- Disaster Management
- Industrial Water & Waste Water Management
- Architecture and Town Planning
- Finite Element Method
- Green Technologies

Elective-I:

- Ground Improvement Techniques
- Air Pollution and Control
- Matrix methods of Structural Analysis
- Urban Hydrology
- Advanced Surveying
- Interior Designs and Decorations



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Elective-II:

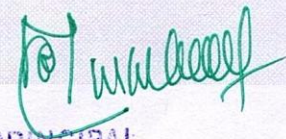
- a. Engineering with Geo-synthetics
- b. Environmental Impact Assessment and Management
- c. Advanced Structural Engineering
- d. Ground Water Development and Management
- e. Traffic Engineering
- f. Infrastructure Management

Elective-III:

- a) Advanced foundation Engineering
- b) Solid waste Management
- c) Earthquake Resistant Design
- d) Water Shed Management
- e) Pavement Analysis and Design
- f) Green Buildings

Elective-IV:

- a) Soil Dynamics and Machine Foundations
- b) Environmental and Industrial Hygiene
- c) Repair and Rehabilitation of Structures
- d) Water Resources System Planning and Management
- e) Urban Transportation Planning
- f) Safety Engineering
- g) Bridge Engineering



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I Year – I Semester

S. No	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Applied Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-BS	English- Communication Skills Laboratory - I	--	--	3	2
9-ES	Computer Programming Laboratory	--	--	3	2
Total Credits					24

I Year – II Semester

S. No	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Applied Physics	4	--	--	3
5	Electrical Circuit Analysis - I	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Laboratory - II	--	--	3	2
8-HS	Applied / Engineering Physics Laboratory	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24


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COURSE STRUCTURE**I Year – I SEMESTER**


S. No.	Subject	T	P	Credits
1	English - I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Mathematics – II (Mathematical Methods)	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English – Communication Skills Lab - I	--	3	2
8	Engineering Physics Laboratory	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engineering Workshop & IT Workshop	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – III	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Electrical Circuit Analysis - I	3+1	--	3
6	Computer Programming	3+1	--	3
7	Engineering Chemistry Lab	--	3	2
8	English – Communication Skills Lab - II	--	3	2
9	C Programming lab	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Electrical Circuit Analysis-II	3+1	--	3
2	Thermal and Hydro Prime movers	3+1	--	3
3	Basic Electronics And Devices	3+1	--	3



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4	Complex Variables and Statistical Methods	3+1	--	3
5	Electro Magnetic Fields	3+1	--	3
6	Electrical Machines-I	3+1	--	3
7	Thermal and Hydro Lab	--	3	2
8	Electrical Circuits Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental studies	3+1	--	3
2	Switching Theory and Logic Design	3+1	--	3
3	Pulse & Digital Circuits	3+1	--	3
4	Power Systems-I	3+1	--	3
5	Electrical Machines-II	3+1	--	3
6	Control Systems	3+1	--	3
7	Electrical Machines -I Lab	--	3	2
8	Electronic Devices & Circuits Lab	--	3	2
Total Credits				22

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electrical Measurements	3+1	--	3
3	Power Systems-II	3+1	--	3
4	Electrical Machines-III	3+1	--	3
5	Power Electronics	3+1	--	3
6	Linear & Digital IC Applications	3+1	--	3
7	Electrical Machines-II Lab	--	3	2
8	Control Systems Lab	--	3	2
9	IPR & Patents	3+1		2
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Switchgear and Protection	3+1	--	3

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2	Microprocessors & Microcontrollers	3+1	--	3
3	Utilization of Electrical Energy	3+1	--	3
4	Power System Analysis	3+1	--	3
5	Power Semiconductor Drives	3+1	--	3
6	Management Science	3+1	--	3
7	Power Electronics Lab	--	3	2
8	Electrical Measurements Lab	--	3	2
Total Credits				22

IV Year – I SEMESTER

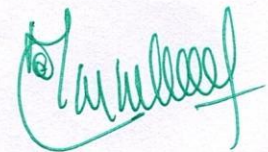
S. No.	Subject	T	P	Credits
1	Renewable Energy Sources and Systems	3+1	-	3
2	HVAC & DC Transmission	3+1	-	3
3	Power System Operation & Control	3+1	-	3
4	Open Elective	3+1	-	3
5	Elective – I	3+1	-	3
6	Microprocessors & Microcontrollers Lab	-	3	2
7	Electrical Simulation Lab	-	3	2
8	Power systems lab		3	2
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Digital Control Systems	3+1	-	3
2	Elective – II	3+1	-	3
3	Elective – III	3+1	-	3
4	Elective – IV	3+1	-	3
5	Project	-	-	9
Total Credits				21

Open Elective:

1. Energy Audit, Conservation and Management
2. Instrumentation
3. Non Conventional Sources of Energy
4. Optimization Techniques



Elective – I:

1. VLSI Design
2. Electrical Distribution Systems
3. Optimization Techniques

Elective – II:

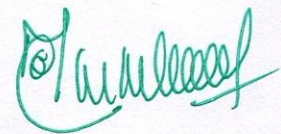
1. Advanced Control Systems
2. Extra High Voltage Transmission
3. Special Electrical Machines

Elective – III:

1. Electric Power Quality
2. Digital Signal Processing
3. FACTS: Flexible Alternating Current Transmission Systems.

Elective-IV:

1. OOPS Through Java
2. UNIX and Shell Programming
3. AI Techniques
4. Power System Reforms
5. Systems Engineering



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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering/Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Basic Electrical and Electronics Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering /Applied Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24



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COURSE STRUCTURE**I Year – I SEMESTER**


S. No.	Subject	T	P	Credits
1	English – I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	--	3
6	Environmental Studies	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – II (Mathematical Methods)	3+1	--	3
3	Mathematics – III	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English - Communication Skills Lab - II	--	3	2
8	Engineering Physics Lab	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engg. Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Metallurgy & Materials Science	3+1*	--	3
2	Mechanics of Solids	3+1*	--	3


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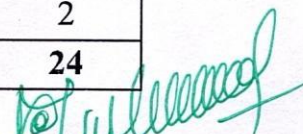
3	Thermodynamics	3+1*	--	3
4	Managerial Economics & Financial Analysis	3+1*	--	3
5	Basic Electrical & Electronics Engineering	3+1*	--	3
6	Computer aided Engineering Drawing Practice	3+1*	--	3
7	Basic Electrical & Electronics Engg. Lab	--	3	2
8	Mechanics of Solids & Metallurgy lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Kinematics of Machinery	3+1*	--	3
2	Thermal Engineering -I	3+1*	--	3
3	Production Technology	3+1*	--	3
4	Fluid Mechanics & Hydraulic machinery	3+1*	--	3
5	Machine Drawing	3+1*	--	3
6	Fluid mechanics & Hydraulic machinery Lab	--	3	2
7	Production Technology Lab	--	3	2
8	Thermal Engineering Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Dynamics of Machinery	3+1*		3
2	Metal Cutting & Machine Tools	3+1*		3
3	Design of Machine Members-I	3+1*		3
4	Instrumentation & Control Systems	3+1*		3
5	Thermal Engineering -II	3+1*		3
6	Metrology	3+1*		3
7	Metrology & Instrumentation Lab		3	2
8	Machine Tools Lab		3	2
9	IPR & Patents		3	2
Total Credits				24


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III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Operations Research	3+1*		3
2	Interactive Computer Graphics	3+1*		3
3	Design of Machine Members– II	3+1*		3
4	Robotics	3+1*		3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*		3
7	Departmental Elective – I	3+1*		3
8	Heat Transfer Lab		3	2
Total Credits				23

IV Year – I SEMESTER

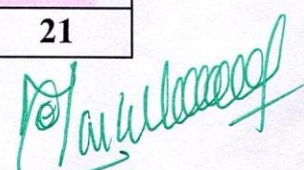
S. No.	Subject	T	P	Credits
1	Automobile Engineering	3+1*		3
2	CAD/CAM	3+1*		3
3	Finite Element Methods	3+1*		3
4	Unconventional Machining Processes	3+1*		3
5	Open Elective	3+1*		3
6	Departmental Elective – II	3+1*		3
7	Simulation Lab		3	2
8	Design/Fabrication Project		2	1
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Production Planning and Control	3+1*		3
2	Green Engineering Systems	3+1*		3
3	Departmental Elective – III	3+1*		3
4	Departmental Elective – IV	3+1*		3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- MEMS
- Nanotechnology


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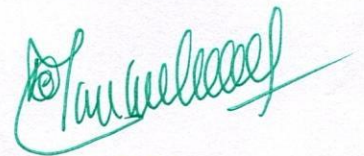
IV Year - I Semester

S. NO	Subjects	L	T	P	Credits
1	Mechatronics	4	--	--	3
2	CAD/CAM	4	--	--	3
3	Finite Element Methods	4	--	--	3
4	Power Plant Engineering	4	--	--	3
5	Elective I 1. Computational Fluid Dynamics 2. Condition Monitoring 3. Additive Manufacturing	4	--	--	3
6	Elective II 1. Advanced Materials 2. Design for Manufacture 3. Gas Dynamics & Jet Propulsion	4	--	--	3
7	CAD/CAM Lab	--	--	2	2
8	Mechatronics Lab	--	--	2	2
Total Credits					22

IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Production Planning and Control	4	--	--	3
T 2	Unconventional Machining Processes	4	--	--	3
3	Automobile Engineering	4	--	--	3
4	Elective III 1. Thermal Equipment Design 2. Non Destructive Evaluation 3. Quality and Reliability Engineering	4	--	--	3
5	Seminar	--	3	--	2
6	Project	--	--	--	10
Total Credits					24

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



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Departmental Elective -I:

1. Refrigeration & Air-conditioning
2. Computational Fluid Dynamics
3. Condition Monitoring
4. Rapid Prototyping

Departmental Elective -II:

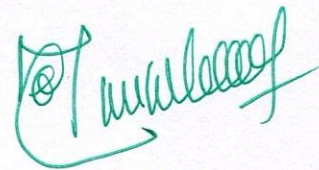
1. Material Characterization Techniques
2. Design for Manufacture
3. Automation in Manufacturing
4. Industrial Hydraulics & Pneumatics

Departmental Elective -III:

1. Experimental Stress Analysis
2. Mechatronics
3. Advanced Materials
4. Power Plant Engineering

Departmental Elective -IV:

1. Non Destructive Evaluation
2. Advanced Optimization Techniques
3. Gas Dynamics & Jet Propulsion
4. Quality and Reliability Engineering



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I Year - I Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Mathematics -II (Numerical Methods and Complex Variables)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5-ES	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	1	--	3	3
7-HS	English - Communication Skills Lab -1	--	--	3	2
8-BS	Applied / Engineering Physics Laboratory	--	--	3	2
9-BS	Applied / Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10-ES	Engineering Workshop & IT Workshop	--	--	3	2
Total Credits					24

I Year - II Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics -III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4-ES	Electrical and Mechanical Technology	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Data Structures	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab -2	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

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II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electronic Devices and Circuits	3+1	--	3
3	Data Structures	3+1	--	3
4	Environmental Studies	3	--	3
5	Signals & Systems	3+1	--	3
6	Electrical Technology	3+1	--	3
7	Electronic Devices and Circuits Lab	--	3	2
8	Networks & Electrical Technology Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Electronic Circuit Analysis	3+1	--	3
2	Management Science	3+1	--	3
3	Random Variables & Stochastic Processes	3+1	--	3
4	Switching Theory & Logic Design	3+1	--	3
5	EM Waves and Transmission Lines	3+1	--	3
6	Analog Communications	3+1	--	3
7	Electronic Circuit Analysis Lab	--	3	2
8	Analog Communications Lab	--	3	2
Total Credits				22

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Pulse & Digital Circuits	3+1	-	3
2	Linear IC Applications	3+1	-	3
3	Control Systems	3+1	-	3
4	Digital System Design & Digital IC Applications	3+1	-	3
5	Antennas and Wave Propagation	3+1	-	3
6	Pulse & Digital Circuits Lab		3	2
7	LIC Applications Lab	-	3	2
8	Digital System Design & DICA Lab		3	2
9	IPR& Patents	3		2
Total Credits				23

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Microprocessors and Microcontrollers	3+1	-	3
2	Digital Signal Processing	3+1	-	3
3	Digital Communications	3+1	-	3
4	Microwave Engineering	3+1	-	3
5	Open Elective	3+1	-	3
6	Microprocessors and Microcontrollers Lab	-	3	2
7	Digital Communications Lab	-	3	2
8	Digital Signal Processing Lab		3	2
9	Seminar		2	1
Total Credits				22

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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	VLSI Design	3+1	-	3
2	Computer Networks	3+1	-	3
3	Digital Image Processing	3+1	-	3
4	Computer Architecture & Organization	3+1	-	3
5	Elective – I	3+1	-	3
	1. Electronic Switching Systems			
	2. Analog IC Design			
	3. Object Oriented Programming & O S			
	4. Radar Systems			
5. Advanced Computer Architecture				
6	Elective – II	3+1	-	3
	1. Optical Communication			
	2. Digital IC Design			
	3. Speech Processing			
	4. Artificial Neural Network & Fuzzy Logic			
5. Network Security & Cryptography				
7	VLSI Lab	-	3	2
8	Microwave Engineering Lab	-	3	2
Total Credits				22

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Cellular Mobile Communication	3+1		3
2	Electronic Measurements and Instrumentation	3+1		3
3	Elective III	3+1		3
	1. Satellite Communication			
	2. Mixed signal Design			
	3. Embedded systems			
	4. RF Circuit Design			
5. Cloud Computing				
4	Elective IV	3+1		3
	1. Wireless Sensors and Networks			
	2. System on Chip			
	3. Low Power IC Design			
	4. Bio-Medical Instrumentation			
5. EMI/EMC				
5	Project & Seminar			9
Total Credits				21



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KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India**

I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs – Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab – 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
Total Credits					24


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COURSE STRUCTURE

I Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	English – I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	--	3
6	Environmental Studies	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – II (Mathematical Methods)	3+1	--	3
3	Mathematics – III	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English - Communication Skills Lab - II	--	3	2
8	Engineering Physics Lab	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engg. Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	4	--	3
2	Object Oriented Programming through C++	4	--	3
3	Mathematical Foundations of Computer Science	4	--	3
4	Digital Logic Design	4	--	3
5	Data Structures	4	--	3
6	Object Oriented Programming Lab	--	3	2
7	Data Structures Lab	--	3	2
8	Digital Logic Design Lab	--	3	2
9	Seminar	--	--	1
Total Credits				22

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II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Formal Languages and Automata Theory	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

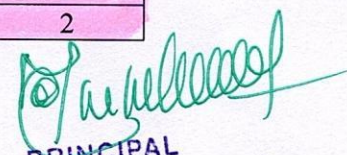
S. No.	Subject	T	P	Credits
1	Compiler Design	4	-	3
2	Data Communication	4	-	3
3	Principles of Programming Languages	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Compiler Design Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab	-	3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Engineering	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Engineering Lab	-	3	2
8	Web Technologies Lab	-	3	2
9	IPR and Patents- II	2	--	--
Total Credits				21

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective –I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2


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8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
Total Credits				23

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective – III	4	-	3
2	Elective – IV	4	-	3
3	Distributed Systems	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
Total Credits				21

Elective – I:

- i) Software Testing Methodologies
- ii) Simulation Modeling
- iii) Information Retrieval Systems
- iv) Artificial Intelligence
- v) Multimedia Computing
- vi) High Performance Computing

Elective – II:

- i. Digital Forensics
- ii. Hadoop and Big Data
- iii. Software Project Management
- iv. Machine Learning
- v. Advanced Databases

Elective – III:

- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition
- v) Digital Image Processing
- vi) Micro processors and Multi Core Systems

Elective-IV:

- i) Embedded and Real Time Systems
- ii) Neural Networks & Soft Computing
- iii) Social Networks and the Semantic Web
- iv) Cloud Computing

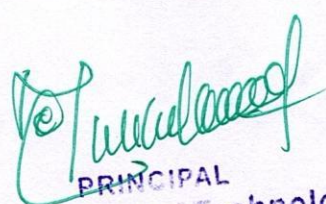

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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs – Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab – 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
Total Credits					24


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COURSE STRUCTURE

I Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	English – I	3+1	--	3
2	Mathematics - I	3+1	--	3
3	Engineering Chemistry	3+1	--	3
4	Engineering Mechanics	3+1	--	3
5	Computer Programming	3+1	-	3
6	Environmental Studies	3+1	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English - Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				24

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English – II	3+1	--	3
2	Mathematics – II (Mathematical Methods)	3+1	--	3
3	Mathematics – III	3+1	--	3
4	Engineering Physics	3+1	--	3
5	Professional Ethics and Human Values	3+1	--	3
6	Engineering Drawing	3+1	--	3
7	English - Communication Skills Lab - II	--	3	2
8	Engineering Physics Lab	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engg. Workshop & IT Workshop	--	3	2
Total Credits				24

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	4	--	3
2	Object Oriented Programming through C++	4	--	3
3	Mathematical Foundations of Computer Science	4	--	3
4	Digital Logic Design	4	--	3
5	Data Structures	4	--	3
6	Object Oriented Programming Lab	--	3	2
7	Data Structures Lab	--	3	2
8	Digital Logic Design Lab	--	3	2
9	Seminar	--	--	1
Total Credits				22

II Year – II SEMESTER



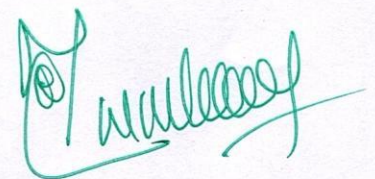
S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Language Processors (50% FLAT + 50% CD)	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Software Engineering	4	-	3
2	Data Communication	4	-	3t
3	Advanced JAVA	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Advanced JAVA Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab	-	3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Testing	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Testing Lab	-	3	2
8	Web Technologies Lab	-	3	2
10	IPR and Patents-II	2	--	--
Total Credits				21



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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective – I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2
8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
Total Credits				23

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective – III	4	-	3
2	Distributed Systems	4	-	3
3	Mathematical Optimization (LP, Scheduling, Simulation, QT, Markov analysis, NLP, PERT CPM Network related problems etc)	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
Total Credits				21

Elective – I:

- i) Embedded and Real Time Systems
- ii) Information Retrieval Systems
- iii) Multimedia Computing

Elective – II:

- i. Hadoop and Big Data
- ii. Software Project Management
- iii. Computer Vision
- iv. Advanced Databases

Elective – III:

- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition



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I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
5	Elective – 1	4	--	3
	1. SOFTWARE ENGINEERING			
	2. ARTIFICIAL INTELLIGENCE			
	3. COMPILER DESIGN			
	4. MACHINE LEARNING			
6	Elective – 2	4	--	3
	1. IMAGE PROCESSING			
	2. PARALLEL ALGORITHMS			
	3. CLOUD COMPUTING			
	4. MOBILE COMPUTING			
7	CSE LAB 2	--	3	2
Total Credits				20

III Semester

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

IV Semester

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



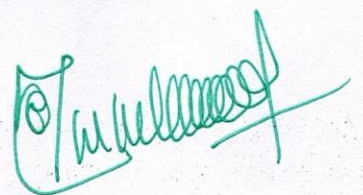
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I Semester

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	4	-	3
	I. Transform Techniques			
	II. VLSI Technology & Design			
	III. Radar Signal Processing			
6	Elective II	4	-	3
	I. Statistical Signal Processing			
	II. Optical Communication Technology			
	III. Network Security & Cryptography			
7	1. System Design & Data Communications Lab	-	3	2
Total Credits				20

II Semester

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
5	Elective III	4	-	3
	I. CMOS Analog & Digital IC Design			
	II. Advanced Computer Architecture			
	III. Soft Computing Techniques			
	IV. Cyber Security			
6	Elective IV	4	-	3
	I. DSP Processors and Architectures			
	II. EMI / EMC			
	III. Object Oriented Programming			
7	Advanced Communications Laboratory	-	3	2
Total Credits				20



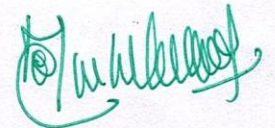
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III Semester

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

IV Semester

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



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I Semester

Subject	Title	Marks	Credits
C-101	Principles of Management	100	3
C-102	Managerial Economics	100	3
C-103	Accounting for Managers	100	3
C-104	Managerial Communication & Soft skills	100	3
C-105	Business Environment	100	3
C-106	Quantitative Analysis for Business Decision	100	3
C-107	IT – LAB	100	3
Total Credits			21

II Semester

Subject	Title	Marks	Credits
C-201	Financial Management	100	3
C-202	Human Resource Management	100	3
C-203	Marketing Management	100	3
C-204	Production and Operations Management	100	3
C-205	Business Research Methods	100	3
C-206	Organizational Behavior	100	3
C-207	Mini Project *	50	2
	Seminar on Mini Project	50	2

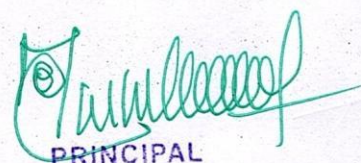
III Semester

Subject	Title	Marks	Credits
C-301	Strategic Management	100	3
C-302	Legal Aspects of Business	100	3
C-303	Business Ethics & Corporate Governance	100	3
E-301	Elective – 1	100	3
E-302	Elective – 2	100	3
E-303	Elective – 3	100	3
E-304	Elective – 4	100	3

IV Semester

Subject	Title	Marks	Credits
C-401	Logistic and Supply Chain Management	100	3
C-402	Entrepreneurship Development	100	3
E-401	Elective – 5	100	3
E-402	Elective – 6	100	3
E-403	Elective – 7	100	3
E-404	Elective – 8	100	3
	Major Project & Comprehensive Viva	Grade	8
Total Marks / Credits		2700	90

Elective: The student has to choose any **ONE** Specialization from the following areas in the beginning of III Semester



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Course Structure MBA (Regular) 2013-2014

(Effective for the students admitted into first year from the academic year 2013-2014)

I SEMESTER

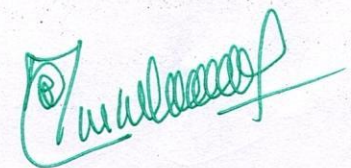
Subject	Title	Marks	Credits
1	Management Theory & Organization Behavior	100	3
2	Managerial Economics	100	3
3	Accounting for Managers	100	3
4	Managerial Communication & Soft Skills	100	3
5	Business Environment	100	3
6	Quantitative Analysis for Business Decision	100	3
7	IT - LAB	100	2

SEMESTER - II

Subject	Title	Marks	Credits
1	Financial Management	100	3
2	Human Resource Management	100	3
3	Marketing Management	100	3
4	Production and Operations Management	100	3
5	Business Research Methods	100	3
6	Business Ethics and Corporate Governance	100	3
7	Mini Project+Seminar on Mini Project	50+50	2+2

SEMESTER - III

Subject	Title	Marks	Credits
1	Strategic Management	100	3
2	Legal Aspects of Business	100	3
3	Retail Management	100	3
4	Elective -I	100	3
5	Elective -II	100	3
6	Elective -I	100	3
7	Elective -II	100	3



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SEMESTER - IV

Subject	Title	Marks	Credits
1	Logistic and Supply Chain Management	100	3
2	Entrepreneurship Development	100	3
3	Elective -III	100	3
4	Elective -IV	100	3
5	Elective -III	100	3
6	Elective -IV	100	3
7	Major Project & Comprehensive Viva	Grade	8
Total Marks / Credits		2700	90

Dual Electives:

The elective papers will be offered in the areas of Marketing, Finance, Human Resource Management (HRM), and Systems. The students should choose any **Two** of the following **elective areas** in the beginning of the third semester of MBA. Specialization will be offered subject to a minimum of 20 students.

Marketing (Elective-I)

- I. Product Management
- II. Promotion and Distribution Management
- III. Services Marketing
- IV. Consumer Behavior

Finance (Elective-II)

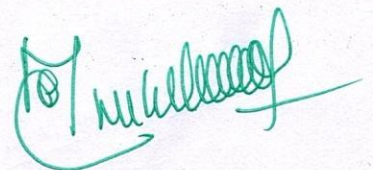
- I. Investment Management
- II. Banking and Insurance
- III. International Financial Management
- IV. Financial Risk Management

HRM (Elective-III)

- I. Compensation and Performance Management
- II. Management of Industrial Relations
- III. Global Human Resource Management
- IV. Management of Change and Development

Systems (Elective-IV)

- I. E-Business
- II. Enterprise Resource Planning
- III. Information Systems Audit & Control
- IV. Software Project Management



I Semester

S. No.	Subject	T	P
1	C PROGRAMMING AND DATA STRUCTURES	4	-
2	COMPUTER ORGANIZATION	4	-
3	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	4	-
4	STATISTICAL PROGRAMMING WITH R	4	-
5	ACCOUNTING AND FINANCIAL MANAGEMENT	4	-
6	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB		3
7	C PROGRAMMING LAB	-	3
8	STATISTICAL PROGRAMMING WITH R LAB	-	3

II Semester

S. No.	Subject	T	P
1	OOPS THROUGH JAVA	4	-
2	OPERATING SYSTEMS	4	-
3	SOFTWARE ENGINEERING	4	-
4	OPTIMIZATION TECHNIQUES	4	-
5	COMPUTER GRAPHICS	4	-
6	OOPS THROUGH JAVA LAB	-	3
7	DATA STRUCTURES LAB	-	3
8	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	-	3


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MASTER OF COMPUTER APPLICATION

I SEMESTER

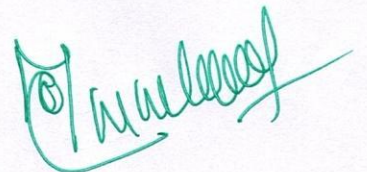
S.No	Subject	T	P
1	C PROGRAMMING AND DATA STRUCTURES	4	-
2	DIGITAL LOGIC AND COMPUTER ORGANIZATION	4	-
3	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	4	-
4	PROBABILITY AND STATISTICAL APPLICATIONS	4	-
5	ACCOUNTING AND FINANCIAL MANAGEMENT	4	-
6	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	-	3
7	C PROGRAMMING AND DATA STRUCTURES LAB	-	3
8	DIGITAL LOGIC AND COMPUTER ORGANIZATION LAB	-	3

II SEMESTER

S.No	Subject	T	P
1	OOPS THROUGH JAVA	4	-
2	OPERATING SYSTEMS	4	-
3	ORGANIZATIONAL STRUCTURES AND HUMAN RESOURCE MANAGEMENT	4	-
4	OPTIMIZATION TECHNIQUES	4	-
5	BUSINESS DATA PROCESSING	4	-
6	OOPS THROUGH JAVA LAB	-	3
7	BUSINESS DATA PROCESSING LAB	-	3

III SEMESTER

S.No	Subject	T	P
1	DATA BASE MANAGEMENT SYSTEMS	4	-
2	COMPUTER COMMUNICATION	4	-
3	UNIX PROGRAMMING	4	-
4	MANAGEMENT INFORMATION SYSTEM	4	-
5	DESIGN AND ANALYSIS OF ALGORITHMS	4	-
6	DATA BASE MANAGEMENT SYSTEMS LAB	-	3
7	UNIX PROGRAMMING LAB	-	3



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IV SEMESTER

S.NO	SUBJECT	T	P
1	SOFTWARE ENGINEERING	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	ELECTIVE-I	4	-
	MOBILE COMPUTING		
	HUMAN COMPUTER INTERACTION		
	ERP & SUPPLY CHAIN MANAGEMENT		
5	ELECTIVE-II	4	-
	SOFTWARE TESTING METHODOLOGIES		
	ARTIFICIAL INTELLIGENCE		
	COMPUTER GRAPHICS		
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3

V SEMESTER

S.NO	SUBJECT	T	P
1	INFORMATION SECURITY	4	-
2	NETWORK PROGRAMMING	4	-
3	OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)	4	-
4	ELECTIVE-III	4	
	ANIMATION & GAMING		
	COMPUTER FORENSICS		
	E-COMMERCE		
5	ELECTIVE-IV	4	-
	MIDDLE WARE TECHNOLOGIES		
	MULTIMEDIA APPLICATION DEVELOPMENT		
	SOFTWARE PROJECT MANAGEMENT		
6	UML LAB	-	3
7	NETWORK PROGRAMMING LAB	-	3

VI SEMESTER

S.NO	SUBJECT		
1	PROJECT SEMINAR		
2	DISSERTATION/ THESIS EXCELLENT / GOOD / SATISFACTORY/ NOT SATISFACTORY		



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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	2	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering /Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Elements of Mechanical Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering / Applied Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24

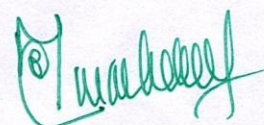
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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Probability & Statistics	4	--	--	3
2	Basic Electrical & Electronics Engineering	4	--	--	3
3	Strength of Materials-I	4	--	--	3
4	Building Materials & Construction	4	--	--	3
5	Surveying	4	--	--	3
6	Fluid Mechanics	4	--	--	3
7	Survey Field Work - I	--	--	3	2
8	Strength of Materials Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Building Planning & Drawing	4	--	--	3
2	Strength of Materials - II	4	--	--	3
3	Hydraulics & Hydraulic Machinery	4	--	--	3
4	Concrete Technology	4	--	--	3
5	Structural Analysis - I	4	--	--	3
6	Transportation Engineering - I	4	--	--	3
7	FM & HM Lab	--	--	3	2
8	Survey Field Work - II	--	--	3	2
MC	Managerial Economics & Financial Analysis	2	--	--	--
Total Credits					22



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II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Building Planning & Drawing	3+1*	--	3
2	Managerial Economics and Financial Analysis	3+1*	--	3
3	Strength of Materials- II	3+1*	--	3
4	Hydraulics and Hydraulic Machinery	3+1*	--	3
5	Concrete Technology	3+1*	--	3
6	Structural Analysis - I	3+1*	--	3
7	Fluid Mechanics and Hydraulic Machinery Lab	--	3	2
8	Concrete Technology Lab	--	3	2
9	Surveying Field work-II	--	3	2
Total Credits				24

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Engineering Geology	3+1*	--	3
2	Structural Analysis – II	3+1*	--	3
3	Design and Drawing of Reinforced Concrete Structures	3+1*	--	3
4	Geotechnical Engineering – I	3+1*	--	3
5	Transportation Engineering – I	3+1*	--	3
6	IPR & Patents	3+1*	--	2
7	Geotechnical Engineering Lab	--	3	2
8	Engineering Geology Lab	--	3	2
Total Credits				21

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Design and Drawing of Steel Structures	3+1*	--	3
2	Geotechnical Engineering – II	3+1*	--	3
3	Water Resources Engineering-I	3+1*	--	3
4	Environmental Engineering – I	3+1*	--	3
5	Transportation Engineering – II	3+1*	--	3
6	OPEN ELECTIVE	3+1*	--	3
7	Computer Aided Engineering Drawing	--	3	2
8	Transportation Engineering Lab	--	3	2
Total Credits				22

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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental Engineering – II	3+1*	--	3
2	Prestressed Concrete	3+1*	--	3
3	Construction Technology and Management	3+1*	--	3
4	Water Resources Engineering–II	3+1*	--	3
5	Remote Sensing and GIS Applications	3+1*	--	3
6	ELECTIVE - I	3+1*	--	3
7	Environmental Engineering Lab	--	3	2
8	GIS & CAD Lab	--	3	2
Total Credits				22

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Estimating, Specifications & Contracts	3+1*	--	3
2	ELECTIVE –II	3+1*	--	3
3	ELECTIVE – III	3+1*	--	3
4	ELECTIVE – IV	3+1*	--	3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- Environmental Pollution and Control
- Disaster Management
- Industrial Water & Waste Water Management
- Architecture and Town Planning
- Finite Element Method
- Green Technologies

Elective-I:

- Ground Improvement Techniques
- Air Pollution and Control
- Matrix methods of Structural Analysis
- Urban Hydrology
- Advanced Surveying
- Interior Designs and Decorations



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Elective-II:

- a. Engineering with Geo-synthetics
- b. Environmental Impact Assessment and Management
- c. Advanced Structural Engineering
- d. Ground Water Development and Management
- e. Traffic Engineering
- f. Infrastructure Management

Elective-III:

- a) Advanced foundation Engineering
- b) Solid waste Management
- c) Earthquake Resistant Design
- d) Water Shed Management
- e) Pavement Analysis and Design
- f) Green Buildings

Elective-IV:

- a) Soil Dynamics and Machine Foundations
- b) Environmental and Industrial Hygiene
- c) Repair and Rehabilitation of Structures
- d) Water Resources System Planning and Management
- e) Urban Transportation Planning
- f) Safety Engineering
- g) Bridge Engineering


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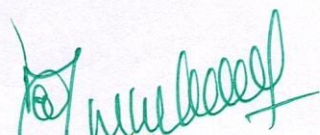
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I Year – I Semester

S. No	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Applied Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-BS	English- Communication Skills Laboratory - I	--	--	3	2
9-ES	Computer Programming Laboratory	--	--	3	2
Total Credits					24

I Year – II Semester

S. No	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Applied Physics	4	--	--	3
5	Electrical Circuit Analysis - I	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Laboratory - II	--	--	3	2
8-HS	Applied / Engineering Physics Laboratory	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24

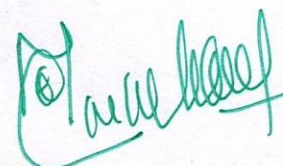

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II Year – I Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Circuit Analysis - II	4	--	--	3
2	Electrical Machines-I	4	--	--	3
3	Basic Electronics and Devices	4	--	--	3
4	Electro Magnetic Fields	4	--	--	3
5	Thermal and Hydro Prime Movers	4	--	--	3
6	Managerial Economics & Financial Analysis	4	--	--	3
7	Thermal and Hydro Laboratory	--	--	3	2
8	Electrical Circuits Laboratory	--	--	3	2
Total Credits					22

II Year – II Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Measurements	4	--	--	3
2	Electrical Machines-II	4	--	--	3
3	Switching Theory and Logic Design	4	--	--	3
4	Control Systems	4	--	--	3
5	Power Systems-I	4	--	--	3
6	Management Science	4	--	--	3
7	Electrical Machines -I Laboratory	--	--	3	2
8	Electronic Devices & Circuits Laboratory	--	--	3	2
Total Credits					22



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4	Complex Variables and Statistical Methods	3+1	--	3
5	Electro Magnetic Fields	3+1	--	3
6	Electrical Machines-I	3+1	--	3
7	Thermal and Hydro Lab	--	3	2
8	Electrical Circuits Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental studies	3+1	--	3
2	Switching Theory and Logic Design	3+1	--	3
3	Pulse & Digital Circuits	3+1	--	3
4	Power Systems-I	3+1	--	3
5	Electrical Machines-II	3+1	--	3
6	Control Systems	3+1	--	3
7	Electrical Machines -I Lab	--	3	2
8	Electronic Devices & Circuits Lab	--	3	2
Total Credits				22

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electrical Measurements	3+1	--	3
3	Power Systems-II	3+1	--	3
4	Electrical Machines-III	3+1	--	3
5	Power Electronics	3+1	--	3
6	Linear & Digital IC Applications	3+1	--	3
7	Electrical Machines-II Lab	--	3	2
8	Control Systems Lab	--	3	2
9	IPR & Patents	3+1		2
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Switchgear and Protection	3+1	--	3

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2	Microprocessors & Microcontrollers	3+1	--	3
3	Utilization of Electrical Energy	3+1	--	3
4	Power System Analysis	3+1	--	3
5	Power Semiconductor Drives	3+1	--	3
6	Management Science	3+1	--	3
7	Power Electronics Lab	--	3	2
8	Electrical Measurements Lab	--	3	2
Total Credits				22

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Renewable Energy Sources and Systems	3+1	-	3
2	HVAC & DC Transmission	3+1	-	3
3	Power System Operation & Control	3+1	-	3
4	Open Elective	3+1	-	3
5	Elective – I	3+1	-	3
6	Microprocessors & Microcontrollers Lab	-	3	2
7	Electrical Simulation Lab	-	3	2
8	Power systems lab		3	2
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Digital Control Systems	3+1	-	3
2	Elective – II	3+1	-	3
3	Elective – III	3+1	-	3
4	Elective – IV	3+1	-	3
5	Project	-	-	9
Total Credits				21

Open Elective:

1. Energy Audit, Conservation and Management
2. Instrumentation
3. Non Conventional Sources of Energy
4. Optimization Techniques



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Elective – I:

1. VLSI Design
2. Electrical Distribution Systems
3. Optimization Techniques

Elective – II:

1. Advanced Control Systems
2. Extra High Voltage Transmission
3. Special Electrical Machines

Elective – III:

1. Electric Power Quality
2. Digital Signal Processing
3. FACTS: Flexible Alternating Current Transmission Systems.

Elective-IV:

1. OOPS Through Java
2. UNIX and Shell Programming
3. AI Techniques
4. Power System Reforms
5. Systems Engineering



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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering/Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Basic Electrical and Electronics Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering /Applied Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg.Workshop & IT Workshop	--	--	3	2
Total Credits					24



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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Metallurgy & Materials Science	4	--	--	3
2	Mechanics of Solids	4	--	--	3
3	Thermodynamics	4	--	--	3
4	Managerial Economics & Financial Analysis	4	--	--	3
5	Fluid Mechanics & Hydraulic Machines	4	--	--	3
6	Computer Aided Engineering Drawing Practice	3	3	--	3
7	Electrical & Electronics Engg. Lab	--	--	3	2
8	Mechanics of Solids & Metallurgy Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Kinematics of Machinery	4	--	--	3
2	Thermal Engineering -I	4	--	--	3
3	Production Technology	4	--	--	3
4	Design of Machine Members -I	4	--	--	3
5	Machine Drawing	3	3	--	3
6	Industrial Engineering and Management	4	--	--	3
7	Fluid Mechanics & Hydraulic Machines Lab	--	--	3	2
8	Production Technology Lab	--	--	3	2
Total Credits					22



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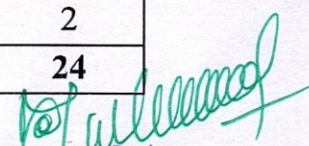
3	Thermodynamics	3+1*	--	3
4	Managerial Economics & Financial Analysis	3+1*	--	3
5	Basic Electrical & Electronics Engineering	3+1*	--	3
6	Computer aided Engineering Drawing Practice	3+1*	--	3
7	Basic Electrical & Electronics Engg. Lab	--	3	2
8	Mechanics of Solids & Metallurgy lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Kinematics of Machinery	3+1*	--	3
2	Thermal Engineering -I	3+1*	--	3
3	Production Technology	3+1*	--	3
4	Fluid Mechanics & Hydraulic machinery	3+1*	--	3
5	Machine Drawing	3+1*	--	3
6	Fluid mechanics & Hydraulic machinery Lab	--	3	2
7	Production Technology Lab	--	3	2
8	Thermal Engineering Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Dynamics of Machinery	3+1*		3
2	Metal Cutting & Machine Tools	3+1*		3
3	Design of Machine Members-I	3+1*		3
4	Instrumentation & Control Systems	3+1*		3
5	Thermal Engineering -II	3+1*		3
6	Metrology	3+1*		3
7	Metrology & Instrumentation Lab		3	2
8	Machine Tools Lab		3	2
9	IPR & Patents		3	2
Total Credits				24


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III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Operations Research	3+1*		3
2	Interactive Computer Graphics	3+1*		3
3	Design of Machine Members– II	3+1*		3
4	Robotics	3+1*		3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*		3
7	Departmental Elective – I	3+1*		3
8	Heat Transfer Lab		3	2
Total Credits				23

IV Year – I SEMESTER

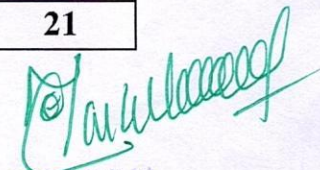
S. No.	Subject	T	P	Credits
1	Automobile Engineering	3+1*		3
2	CAD/CAM	3+1*		3
3	Finite Element Methods	3+1*		3
4	Unconventional Machining Processes	3+1*		3
5	Open Elective	3+1*		3
6	Departmental Elective – II	3+1*		3
7	Simulation Lab		3	2
8	Design/Fabrication Project		2	1
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Production Planning and Control	3+1*		3
2	Green Engineering Systems	3+1*		3
3	Departmental Elective – III	3+1*		3
4	Departmental Elective – IV	3+1*		3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

1. MEMS
2. Nanotechnology


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III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Operations Research	3+1*		3
2	Interactive Computer Graphics	3+1*		3
3	Design of Machine Members– II	3+1*		3
4	Robotics	3+1*		3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*		3
7	Departmental Elective – I	3+1*		3
8	Heat Transfer Lab		3	2
Total Credits				23

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Automobile Engineering	3+1*		3
2	CAD/CAM	3+1*		3
3	Finite Element Methods	3+1*		3
4	Unconventional Machining Processes	3+1*		3
5	Open Elective	3+1*		3
6	Departmental Elective – II	3+1*		3
7	Simulation Lab		3	2
8	Design/Fabrication Project		2	1
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Production Planning and Control	3+1*		3
2	Green Engineering Systems	3+1*		3
3	Departmental Elective – III	3+1*		3
4	Departmental Elective – IV	3+1*		3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- MEMS
- Nanotechnology

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Departmental Elective -I:

1. Refrigeration & Air-conditioning
2. Computational Fluid Dynamics
3. Condition Monitoring
4. Rapid Prototyping

Departmental Elective -II:

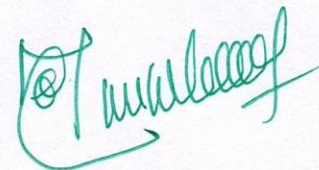
1. Material Characterization Techniques
2. Design for Manufacture
3. Automation in Manufacturing
4. Industrial Hydraulics & Pneumatics

Departmental Elective -III:

1. Experimental Stress Analysis
2. Mechatronics
3. Advanced Materials
4. Power Plant Engineering

Departmental Elective -IV:

1. Non Destructive Evaluation
2. Advanced Optimization Techniques
3. Gas Dynamics & Jet Propulsion
4. Quality and Reliability Engineering



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I Year - I Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Mathematics -II (Numerical Methods and Complex Variables)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5-ES	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	1	--	3	3
7-HS	English - Communication Skills Lab -1	--	--	3	2
8-BS	Applied / Engineering Physics Laboratory	--	--	3	2
9-BS	Applied / Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10-ES	Engineering Workshop& IT Workshop	--	--	3	2
Total Credits					24

I Year - II Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics -III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4-ES	Electrical and Mechanical Technology	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Data Structures	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab -2	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

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II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electronic Devices and Circuits	3+1	--	3
3	Data Structures	3+1	--	3
4	Environmental Studies	3	--	3
5	Signals & Systems	3+1	--	3
6	Electrical Technology	3+1	--	3
7	Electronic Devices and Circuits Lab	--	3	2
8	Networks & Electrical Technology Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Electronic Circuit Analysis	3+1	--	3
2	Management Science	3+1	--	3
3	Random Variables & Stochastic Processes	3+1	--	3
4	Switching Theory & Logic Design	3+1	--	3
5	EM Waves and Transmission Lines	3+1	--	3
6	Analog Communications	3+1	--	3
7	Electronic Circuit Analysis Lab	--	3	2
8	Analog Communications Lab	--	3	2
Total Credits				22

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Pulse & Digital Circuits	3+1	-	3
2	Linear IC Applications	3+1	-	3
3	Control Systems	3+1	-	3
4	Digital System Design & Digital IC Applications	3+1	-	3
5	Antennas and Wave Propagation	3+1	-	3
6	Pulse & Digital Circuits Lab		3	2
7	LIC Applications Lab	-	3	2
8	Digital System Design & DICA Lab		3	2
9	IPR& Patents	3		2
Total Credits				23

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Microprocessors and Microcontrollers	3+1	-	3
2	Digital Signal Processing	3+1	-	3
3	Digital Communications	3+1	-	3
4	Microwave Engineering	3+1	-	3
5	Open Elective	3+1	-	3
6	Microprocessors and Microcontrollers Lab	-	3	2
7	Digital Communications Lab	-	3	2
8	Digital Signal Processing Lab		3	2
9	Seminar		2	1
Total Credits				22

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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	VLSI Design	3+1	-	3
2	Computer Networks	3+1	-	3
3	Digital Image Processing	3+1	-	3
4	Computer Architecture & Organization	3+1	-	3
5	Elective – I	3+1	-	3
	1. Electronic Switching Systems			
	2. Analog IC Design			
	3. Object Oriented Programming & O S			
	4. Radar Systems			
5. Advanced Computer Architecture				
6	Elective – II	3+1	-	3
	1. Optical Communication			
	2. Digital IC Design			
	3. Speech Processing			
	4. Artificial Neural Network & Fuzzy Logic			
5. Network Security & Cryptography				
7	VLSI Lab	-	3	2
8	Microwave Engineering Lab	-	3	2
Total Credits				22

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Cellular Mobile Communication	3+1		3
2	Electronic Measurements and Instrumentation	3+1		3
3	Elective III	3+1		3
	1. Satellite Communication			
	2. Mixed signal Design			
	3. Embedded systems			
	4. RF Circuit Design			
5. Cloud Computing				
4	Elective IV	3+1		3
	1. Wireless Sensors and Networks			
	2. System on Chip			
	3. Low Power IC Design			
	4. Bio-Medical Instrumentation			
5. EMI/EMC				
5	Project & Seminar			9
Total Credits				21



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:
KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India**

I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs – Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab – 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
Total Credits					24

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:
KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	Statistics with R Programming	4	--	--	3
2	Mathematical Foundations of Computer Science	4	--	--	3
3	Digital Logic Design	4	--	--	3
4	Python Programming	4	--	--	3
5	Data Structures through C++	4	--	--	3
6	Computer Graphics	4	--	--	3
7	Data Structures through C++Lab	--	--	3	2
8	Python Programming Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Software Engineering	4	--	--	3
2	Java Programming	4	--	--	3
3	Advanced Data Structures	4	--	--	3
4	Computer Organization	4	--	--	3
5	Formal Languages and Automata Theory	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Advanced Data Structures Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
Total Credits					22

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II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Formal Languages and Automata Theory	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

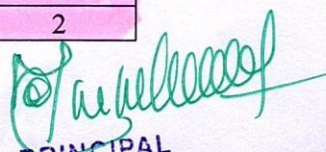
S. No.	Subject	T	P	Credits
1	Compiler Design	4	-	3
2	Data Communication	4	-	3
3	Principles of Programming Languages	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Compiler Design Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab		3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Engineering	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Engineering Lab	-	3	2
8	Web Technologies Lab	-	3	2
9	IPR and Patents- II	2	--	--
Total Credits				21

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective –I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2


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8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
Total Credits				23

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective – III	4	-	3
2	Elective – IV	4	-	3
3	Distributed Systems	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
Total Credits				21

Elective – I:

- i) Software Testing Methodologies
- ii) Simulation Modeling
- iii) Information Retrieval Systems
- iv) Artificial Intelligence
- v) Multimedia Computing
- vi) High Performance Computing

Elective – II:

- i. Digital Forensics
- ii. Hadoop and Big Data
- iii. Software Project Management
- iv. Machine Learning
- v. Advanced Databases

Elective – III:

- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition
- v) Digital Image Processing
- vi) Micro processors and Multi Core Systems

Elective-IV:

- i) Embedded and Real Time Systems
- ii) Neural Networks & Soft Computing
- iii) Social Networks and the Semantic Web
- iv) Cloud Computing

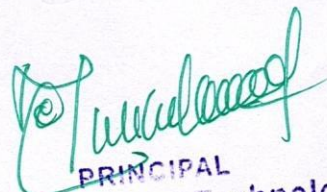

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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs – Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab – 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
Total Credits					24


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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	Statistics with R Programming R1621051	4	--	--	3
2	Mathematical Foundations of Computer Science R1621052	4	--	--	3
3	Digital Logic Design R1621053	4	--	--	3
4	Python Programming R1621054	4	--	--	3
5	Data Structures through C++ R1621055	4	--	--	3
6	Software Engineering R1621121	4	--	--	3
7	Data Structures through C++ Lab R1621057	--	--	3	2
8	Python Programming Lab R1621058	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Computer Graphics	4	--	--	3
2	Java Programming	4	--	--	3
3	E-Commerce	4	--	--	3
4	Computer Organization	4	--	--	3
5	Object Oriented Analysis and Design using UML	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Unified Modeling Languages Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
Total Credits					22

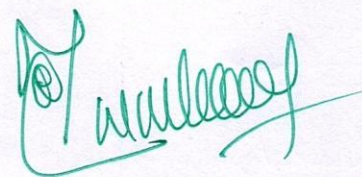
S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Language Processors (50% FLAT + 50% CD)	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Software Engineering	4	-	3
2	Data Communication	4	-	3t
3	Advanced JAVA	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Advanced JAVA Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab	-	3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Testing	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Testing Lab	-	3	2
8	Web Technologies Lab	-	3	2
10	IPR and Patents-II	2	--	--
Total Credits				21



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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective – I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2
8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
Total Credits				23

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective – III	4	-	3
2	Distributed Systems	4	-	3
3	Mathematical Opimization (LP, Scheduling, Simulation, QT, Markov analysis, NLP, PERT CPM Network related problems etc)	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
Total Credits				21

Elective – I:

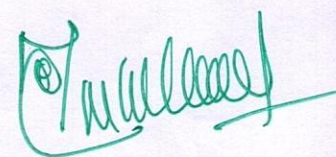
- i) Embedded and Real Time Systems
- ii) Information Retrieval Systems
- iii) Multimedia Computing

Elective – II:

- i. Hadoop and Big Data
- ii. Software Project Management
- iii. Computer Vision
- iv. Advanced Databases

Elective – III:

- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition



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I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
Total Credits				20

II Semester

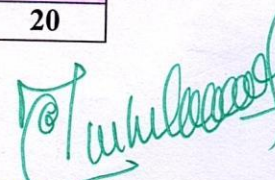
S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
Elective – 1				
5	1. SOFTWARE ENGINEERING 2. ARTIFICIAL INTELLIGENCE 3. COMPILER DESIGN 4. MACHINE LEARNING	4	--	3
Elective – 2				
6	1. IMAGE PROCESSING 2. PARALLEL ALGORITHMS 3. CLOUD COMPUTING 4. MOBILE COMPUTING	4	--	3
7	CSE LAB 2	--	3	2
Total Credits				20

III Semester

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

IV Semester

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

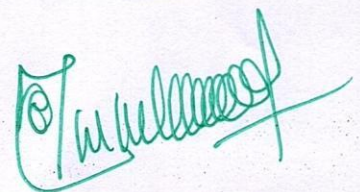

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I Semester

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	4	-	3
	I. Transform Techniques			
	II. VLSI Technology & Design			
	III. Radar Signal Processing			
6	Elective II	4	-	3
	I. Statistical Signal Processing			
	II. Optical Communication Technology			
	III. Network Security & Cryptography			
7	1. System Design & Data Communications Lab	-	3	2
Total Credits				20

II Semester

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
5	Elective III	4	-	3
	I. CMOS Analog & Digital IC Design			
	II. Advanced Computer Architecture			
	III. Soft Computing Techniques			
	IV. Cyber Security			
6	Elective IV	4	-	3
	I. DSP Processors and Architectures			
	II. EMI / EMC			
	III. Object Oriented Programming			
7	Advanced Communications Laboratory	-	3	2
Total Credits				20



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III Semester

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

IV Semester

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



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I Semester

Subject	Title	Marks	Credits
C-101	Principles of Management	100	3
C-102	Managerial Economics	100	3
C-103	Accounting for Managers	100	3
C-104	Managerial Communication & Soft skills	100	3
C-105	Business Environment	100	3
C-106	Quantitative Analysis for Business Decision	100	3
C-107	IT – LAB	100	3
Total Credits			21

II Semester

Subject	Title	Marks	Credits
C-201	Financial Management	100	3
C-202	Human Resource Management	100	3
C-203	Marketing Management	100	3
C-204	Production and Operations Management	100	3
C-205	Business Research Methods	100	3
C-206	Organizational Behavior	100	3
C-207	Mini Project *	50	2
	Seminar on Mini Project	50	2

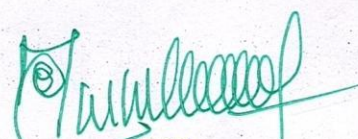
III Semester

Subject	Title	Marks	Credits
C-301	Strategic Management	100	3
C -302	Legal Aspects of Business	100	3
C -303	Business Ethics & Corporate Governance	100	3
E -301	Elective – 1	100	3
E-302	Elective – 2	100	3
E-303	Elective – 3	100	3
E-304	Elective – 4	100	3

IV Semester

Subject	Title	Marks	Credits
C -401	Logistic and Supply Chain Management	100	3
C -402	Entrepreneurship Development	100	3
E-401	Elective – 5	100	3
E-402	Elective – 6	100	3
E-403	Elective – 7	100	3
E-404	Elective – 8	100	3
	Major Project & Comprehensive Viva	Grade	8
Total Marks / Credits		2700	90

Elective: The student has to choose any **ONE** Specialization from the following areas in the beginning of III Semester


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III SEMESTER

HR

	SUBJECT TITLE
Elective-1	Leadership Management
Elective-2	Compensation and Reward Management
Elective-3	Performance Management
Elective-4	Strategic Human Resource Management

FINANCE

	SUBJECT TITLE
Elective-1	Security Analysis & Portfolio Management
Elective-2	Banking and Insurance Management
Elective-3	Advance Management Accounting
Elective-4	Strategic Financial Management

MARKETING

	SUBJECT TITLE
Elective-1	Consumer Behavior
Elective-2	Retail Management
Elective-3	Customer Relationship Management
Elective-4	Strategic Human Resource Management

SYSTEMS

	SUBJECT TITLE
Elective-1	E-Business
Elective-2	RDBMS
Elective-3	Web Designing
Elective-4	Strategic Human Resource Management



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IV SEMESTER

HR

	SUBJECT TITLE
Elective-5	Organizational Development & Change Management
Elective-6	Global HRM
Elective-7	Labor Welfare & Legislation
Elective-8	Management of Industrial Relations

FINANCE

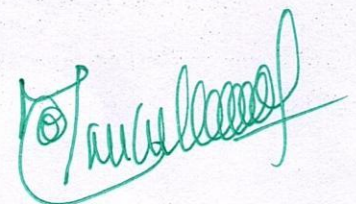
	SUBJECT TITLE
Elective-5	Financial Markets and Services
Elective-6	Global Financial Management
Elective-7	Risk Management
Elective-8	Tax Management

MARKETING

	SUBJECT TITLE
Elective-5	Services Marketing
Elective-6	Promotional Distribution Management
Elective-7	Global Marketing Management
Elective-8	Supply Chain Management

SYSTEMS

	SUBJECT TITLE
Elective-5	Business Intelligence
Elective-6	Enterprise Resource Planning
Elective-7	Cyber Laws & Security
Elective-8	Information Systems Audit



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I Semester

S. No.	Subject	T	P
1	C PROGRAMMING AND DATA STRUCTURES	4	-
2	COMPUTER ORGANIZATION	4	-
3	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	4	-
4	STATISTICAL PROGRAMMING WITH R	4	-
5	ACCOUNTING AND FINANCIAL MANAGEMENT	4	-
6	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB		3
7	C PROGRAMMING LAB	-	3
8	STATISTICAL PROGRAMMING WITH R LAB	-	3

II Semester

S. No.	Subject	T	P
1	OOPS THROUGH JAVA	4	-
2	OPERATING SYSTEMS	4	-
3	SOFTWARE ENGINEERING	4	-
4	OPTIMIZATION TECHNIQUES	4	-
5	COMPUTER GRAPHICS	4	-
6	OOPS THROUGH JAVA LAB	-	3
7	DATA STRUCTURES LAB	-	3
8	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	-	3

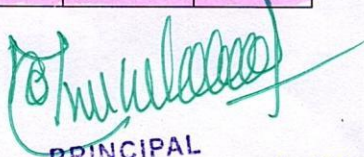

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III Semester

S. No.	Subject	T	P
1	DATA BASE MANAGEMENT SYSTEMS	4	-
2	COMPUTER NETWORKS	4	-
3	UNIX PROGRAMMING	4	-
4	MANAGEMENT INFORMATION SYSTEM	4	-
5	DESIGN AND ANALYSIS OF ALGORITHMS	4	-
6	DATA BASE MANAGEMENT SYSTEMS LAB	-	3
7	UNIX PROGRAMMING LAB	-	3
8	COMPUTER NETWORKS LAB	-	3

IV Semester

S. No.	SUBJECT	T	P
1	OBJECT ORIENTED ANALYSIS AND DESIGN	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	ELECTIVE-I MCA16.4.4.1 MOBILE COMPUTING MCA16.4.4.2 HUMAN COMPUTER INTERACTION MCA16.4.4.3 CLOUD COMPUTING	4	-
5	ELECTIVE-II MCA16.4.5.1 SOFTWARE PROJECT MANAGEMENT MCA16.4.5.2 ARTIFICIAL INTELLIGENCE MCA16.4.5.3 EMBEDDED SYSTEMS	4	-
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3
8	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	-	3


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IV SEMESTER

S.NO	SUBJECT	T	P
1	SOFTWARE ENGINEERING	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	ELECTIVE-I	4	-
	MOBILE COMPUTING		
	HUMAN COMPUTER INTERACTION		
	ERP & SUPPLY CHAIN MANAGEMENT		
5	ELECTIVE-II	4	-
	SOFTWARE TESTING METHODOLOGIES		
	ARTIFICIAL INTELLIGENCE		
	COMPUTER GRAPHICS		
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3

V SEMESTER

S.NO	SUBJECT	T	P
1	INFORMATION SECURITY	4	-
2	NETWORK PROGRAMMING	4	-
3	OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)	4	-
4	ELECTIVE-III	4	
	ANIMATION & GAMING		
	COMPUTER FORENSICS		
	E-COMMERCE		
5	ELECTIVE-IV	4	-
	MIDDLE WARE TECHNOLOGIES		
	MULTIMEDIA APPLICATION DEVELOPMENT		
	SOFTWARE PROJECT MANAGEMENT		
6	UML LAB	-	3
7	NETWORK PROGRAMMING LAB	-	3

VI SEMESTER

S.NO	SUBJECT		
1	PROJECT SEMINAR		
2	DISSERTATION/ THESIS EXCELLENT / GOOD / SATISFACTORY/ NOT SATISFACTORY		



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I SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM101	English Language - I	4	100
16IM102	Business Mathematics & Statistics	4	100
16IM103	Fundamentals of Business Organization	4	100
16IM104	Financial Accounting - I	4	100
16IM105	Fundamentals of Computers	4	100
Total		20	500

II SEMESTER

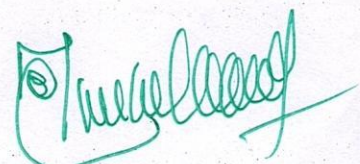
Code	SUBJECT TITLE	Credits	Max. Marks
16IM201	English Language – II	4	100
16IM202	Business Environment	4	100
16IM203	Managerial Economics	4	100
16IM204	Financial Accounting – II	4	100
16IM205	Organizational Communications.	4	100
Total		20	500

III SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM301	Principles of Management	4	100
16IM302	Cost Accounting	4	100
16IM303	Banking Theory & Practice	4	100
16IM304	Business Law	4	100
16IM305	Entrepreneurship Development	4	100
Total		20	500

IV SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM401	Organizational Behavior	4	100
16IM402	Management Accounting	4	100
16IM403	Company Law	4	100
16IM404	Elements of Direct & Indirect Taxes	4	100
16IM405	Management Information Systems	4	100
Total		20	500



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V SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BM501	Entrepreneurship	4	100
13BM502	Management of Information System	4	100
13BM503	Operations Management	4	100
13BM504	Cost Accounting	4	100
13BM505	International Business	4	100
Total		20	500

VI SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BM601	Business Research Methods	4	100
13BM602	Supply Chain Management	4	100
13BM603	Creativity & Innovation	4	100
13BM604	Banking Theory and Practice	4	100
13BM605	Total Quality Management	4	100
13BM606	Mini Project Report**	4	100
13BM607	Comprehension Viva-Voce	4	100
Total		28	700

At the end of III Year Total 136 3400

VII SEMESTER

Code	Subject Code	Credits	Max. Marks
13BAM701	Strategic Management Accounting	4	100
13BAM702	Strategic Management	4	100
13BAM703	Corporate Governance	4	100
13BAM704	Elective - I	4	100
13BAM705	Elective - II	4	100
13BAM706	Seminar*	2	50
Total		22	550

VIII SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM801	Project Management	4	100
13BAM802	Intellectual Property Rights	4	100
13BAM803	Decision Support Systems	4	100
13BAM804	Elective - III	4	100
13BAM805	Elective - IV	4	100
13BAM806	Seminar*	2	50
Total		22	550

At the end of IV Year Total 180 4500

REVISED COURSE STRUCTURE 2013

VIII SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM801	Project Management	4	100
13BAM802	Intellectual Property Rights	4	100
13BAM803	Decision Support Systems	4	100
13BAM804	Elective - III	4	100
13BAM805	Elective - IV	4	100
13BAM806	Seminar*	2	50
Total		22	550
At the end of IV Year		Total	180
			4500

IX SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM901	Industrial Safety and Security	4	100
13BAM902	Leadership Management	4	100
13BAM903	Knowledge Management	4	100
13BAM904	Elective - V	4	100
13BAM905	Elective - VI	4	100
13BAM906	Seminar*	2	50
Total		22	550

X SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM1001	Major Project Report**	10	250
13BAM1002	Project Seminar	4	100
13BAM1003	Comprehension Viva - Voce	4	100
Total		18	450

13BM

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Elective - I

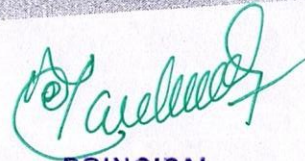
	SUBJECT TITLE
Marketing	Consumer Behavior
Finance	Banking & Insurance Management
HRM	Performance Management
Systems	Relational Data Base Management Systems

Elective - II

	SUBJECT TITLE
Marketing	Sales and Distribution
Finance	Investments Management
HRM	Training and Development
Systems	Enterprise Resource Planning

Elective - III

	SUBJECT TITLE
Marketing	Integrated Marketing Communications
Finance	Financial Systems & Services
HRM	Management of Industrial Relations
Systems	Business Intelligence



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Elective - IV

	SUBJECT TITLE
Marketing	Retail Management
Finance	Strategic Financial Decisions
HRM	Compensation Management
Systems	E-Business

Elective - V

	SUBJECT TITLE
Marketing	Services Marketing & Logistics Management
Finance	International Financial Management
HRM	Management of Change
Systems	Cyber Laws & Security

Elective - VI

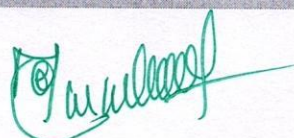
	SUBJECT TITLE
Marketing	International Marketing
Finance	Financial Risk Management & Derivatives
HRM	Leadership Management
Systems	Information Systems & Audit

*Seminar

Student requires to prepare and submit a report on conceptual understanding of any one of the subjects of the respective semester and expected to present the same in the form of PPT in the class room. The report may consist 20-25 pages.

**Mini Project Report

Student has to undergo practical training for a period of 4 (Four) weeks in an industry after completion of **Fourth Semester** end Examination. In training period, the student should prefer to work on any specific problem, and submit the report before end of **Sixth Semester**. The Project evaluation and Comprehensive viva-voce is conducted by inter examiner



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2018-19

I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	2	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering /Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Elements of Mechanical Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering / Applied Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24

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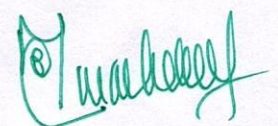
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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Probability & Statistics	4	--	--	3
2	Basic Electrical & Electronics Engineering	4	--	--	3
3	Strength of Materials-I	4	--	--	3
4	Building Materials & Construction	4	--	--	3
5	Surveying	4	--	--	3
6	Fluid Mechanics	4	--	--	3
7	Survey Field Work - I	--	--	3	2
8	Strength of Materials Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Building Planning & Drawing	4	--	--	3
2	Strength of Materials - II	4	--	--	3
3	Hydraulics & Hydraulic Machinery	4	--	--	3
4	Concrete Technology	4	--	--	3
5	Structural Analysis - I	4	--	--	3
6	Transportation Engineering - I	4	--	--	3
7	FM & HM Lab	--	--	3	2
8	Survey Field Work - II	--	--	3	2
MC	Managerial Economics & Financial Analysis	2	--	--	--
Total Credits					22



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III Year - I Semester

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	--	--	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	OPEN ELECTIVE	4	--	--	3
	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					
6	Geotechnical Engineering Lab	--	--	3	2
7	Environmental Engineering Lab	--	--	3	2
8	Computer Aided Engineering Lab	--	--	3	2
Total Credits					21

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental Engineering – II	3+1*	--	3
2	Prestressed Concrete	3+1*	--	3
3	Construction Technology and Management	3+1*	--	3
4	Water Resources Engineering–II	3+1*	--	3
5	Remote Sensing and GIS Applications	3+1*	--	3
6	ELECTIVE - I	3+1*	--	3
7	Environmental Engineering Lab	--	3	2
8	GIS & CAD Lab	--	3	2
Total Credits				22

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Estimating, Specifications & Contracts	3+1*	--	3
2	ELECTIVE –II	3+1*	--	3
3	ELECTIVE – III	3+1*	--	3
4	ELECTIVE – IV	3+1*	--	3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- Environmental Pollution and Control
- Disaster Management
- Industrial Water & Waste Water Management
- Architecture and Town Planning
- Finite Element Method
- Green Technologies

Elective-I:

- Ground Improvement Techniques
- Air Pollution and Control
- Matrix methods of Structural Analysis
- Urban Hydrology
- Advanced Surveying
- Interior Designs and Decorations



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Elective-II:

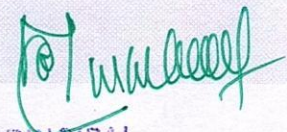
- a. Engineering with Geo-synthetics
- b. Environmental Impact Assessment and Management
- c. Advanced Structural Engineering
- d. Ground Water Development and Management
- e. Traffic Engineering
- f. Infrastructure Management

Elective-III:

- a) Advanced foundation Engineering
- b) Solid waste Management
- c) Earthquake Resistant Design
- d) Water Shed Management
- e) Pavement Analysis and Design
- f) Green Buildings

Elective-IV:

- a) Soil Dynamics and Machine Foundations
- b) Environmental and Industrial Hygiene
- c) Repair and Rehabilitation of Structures
- d) Water Resources System Planning and Management
- e) Urban Transportation Planning
- f) Safety Engineering
- g) Bridge Engineering



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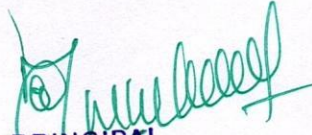
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I Year – I Semester

S. No	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Applied Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-BS	English- Communication Skills Laboratory - I	--	--	3	2
9-ES	Computer Programming Laboratory	--	--	3	2
Total Credits					24

I Year – II Semester

S. No	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Applied Physics	4	--	--	3
5	Electrical Circuit Analysis - I	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Laboratory - II	--	--	3	2
8-HS	Applied / Engineering Physics Laboratory	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24

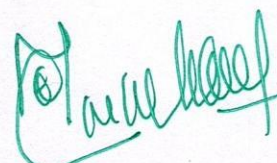

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II Year – I Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Circuit Analysis - II	4	--	--	3
2	Electrical Machines-I	4	--	--	3
3	Basic Electronics and Devices	4	--	--	3
4	Electro Magnetic Fields	4	--	--	3
5	Thermal and Hydro Prime Movers	4	--	--	3
6	Managerial Economics & Financial Analysis	4	--	--	3
7	Thermal and Hydro Laboratory	--	--	3	2
8	Electrical Circuits Laboratory	--	--	3	2
Total Credits					22

II Year – II Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Measurements	4	--	--	3
2	Electrical Machines-II	4	--	--	3
3	Switching Theory and Logic Design	4	--	--	3
4	Control Systems	4	--	--	3
5	Power Systems-I	4	--	--	3
6	Management Science	4	--	--	3
7	Electrical Machines -I Laboratory	--	--	3	2
8	Electronic Devices & Circuits Laboratory	--	--	3	2
Total Credits					22



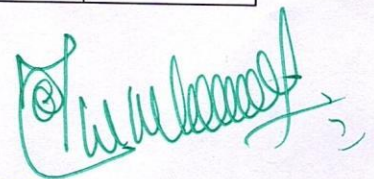
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III Year – I Semester

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 & Management	4	--	--	3
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



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2	Microprocessors & Microcontrollers	3+1	--	3
3	Utilization of Electrical Energy	3+1	--	3
4	Power System Analysis	3+1	--	3
5	Power Semiconductor Drives	3+1	--	3
6	Management Science	3+1	--	3
7	Power Electronics Lab	--	3	2
8	Electrical Measurements Lab	--	3	2
Total Credits				22

IV Year – I SEMESTER

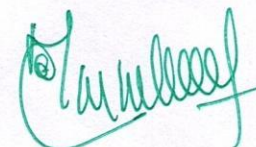
S. No.	Subject	T	P	Credits
1	Renewable Energy Sources and Systems	3+1	-	3
2	HVAC & DC Transmission	3+1	-	3
3	Power System Operation & Control	3+1	-	3
4	Open Elective	3+1	-	3
5	Elective – I	3+1	-	3
6	Microprocessors & Microcontrollers Lab	-	3	2
7	Electrical Simulation Lab	-	3	2
8	Power systems lab		3	2
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Digital Control Systems	3+1	-	3
2	Elective – II	3+1	-	3
3	Elective – III	3+1	-	3
4	Elective – IV	3+1	-	3
5	Project	-	-	9
Total Credits				21

Open Elective:

1. Energy Audit, Conservation and Management
2. Instrumentation
3. Non Conventional Sources of Energy
4. Optimization Techniques



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Elective – I:

1. VLSI Design
2. Electrical Distribution Systems
3. Optimization Techniques

Elective – II:

1. Advanced Control Systems
2. Extra High Voltage Transmission
3. Special Electrical Machines

Elective – III:

1. Electric Power Quality
2. Digital Signal Processing
3. FACTS: Flexible Alternating Current Transmission Systems.

Elective-IV:

1. OOPS Through Java
2. UNIX and Shell Programming
3. AI Techniques
4. Power System Reforms
5. Systems Engineering



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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering/Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics – III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Basic Electrical and Electronics Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering /Applied Physics – Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
Total Credits					24



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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Metallurgy & Materials Science	4	--	--	3
2	Mechanics of Solids	4	--	--	3
3	Thermodynamics	4	--	--	3
4	Managerial Economics & Financial Analysis	4	--	--	3
5	Fluid Mechanics & Hydraulic Machines	4	--	--	3
6	Computer Aided Engineering Drawing Practice	3	3	--	3
7	Electrical & Electronics Engg. Lab	--	--	3	2
8	Mechanics of Solids & Metallurgy Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Kinematics of Machinery	4	--	--	3
2	Thermal Engineering -I	4	--	--	3
3	Production Technology	4	--	--	3
4	Design of Machine Members -I	4	--	--	3
5	Machine Drawing	3	3	--	3
6	Industrial Engineering and Management	4	--	--	3
7	Fluid Mechanics & Hydraulic Machines Lab	--	--	3	2
8	Production Technology Lab	--	--	3	2
Total Credits					22



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III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Dynamics of Machinery	4	--	--	3
2	Metal Cutting & Machine Tools	4	--	--	3
3	Design of Machine Members-II	4	--	--	3
4	Operations Research	4	--	--	3
5	Thermal Engineering -II	4	--	--	3
6	Theory of Machines Lab	--	--	3	2
7	Machine Tools Lab	--	--	3	2
8	Thermal Engineering Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21

III YEAR - II Semester

S. No.	Subjects	L	T	P	Credits
1	Metrology	4	--	--	3
2	Instrumentation & Control Systems	4	--	--	3
3	Refrigeration & Air-conditioning	4	--	--	3
4	Heat Transfer	4	--	--	3
5	OPEN ELECTIVE 1. Entrepreneurship 2. Data Base Management System 3. Waste Water Management 4. Computer Graphics 5. Industrial Robotics 6. Green Engineering Systems	4	--	--	3
6	Heat Transfer Lab	--	--	3	2
7	Metrology & Instrumentation Lab	--	--	3	2
8	Computational Fluid Dynamics Lab	--	--	3	2
9MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					21


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III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Operations Research	3+1*		3
2	Interactive Computer Graphics	3+1*		3
3	Design of Machine Members– II	3+1*		3
4	Robotics	3+1*		3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*		3
7	Departmental Elective – I	3+1*		3
8	Heat Transfer Lab		3	2
Total Credits				23

IV Year – I SEMESTER

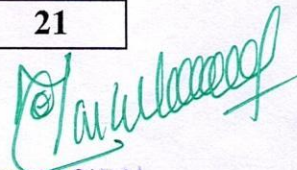
S. No.	Subject	T	P	Credits
1	Automobile Engineering	3+1*		3
2	CAD/CAM	3+1*		3
3	Finite Element Methods	3+1*		3
4	Unconventional Machining Processes	3+1*		3
5	Open Elective	3+1*		3
6	Departmental Elective – II	3+1*		3
7	Simulation Lab		3	2
8	Design/Fabrication Project		2	1
Total Credits				21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Production Planning and Control	3+1*		3
2	Green Engineering Systems	3+1*		3
3	Departmental Elective – III	3+1*		3
4	Departmental Elective – IV	3+1*		3
5	Project Work			9
Total Credits				21

OPEN ELECTIVE:

- MEMS
- Nanotechnology


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Departmental Elective -I:

1. Refrigeration & Air-conditioning
2. Computational Fluid Dynamics
3. Condition Monitoring
4. Rapid Prototyping

Departmental Elective -II:

1. Material Characterization Techniques
2. Design for Manufacture
3. Automation in Manufacturing
4. Industrial Hydraulics & Pneumatics

Departmental Elective -III:

1. Experimental Stress Analysis
2. Mechatronics
3. Advanced Materials
4. Power Plant Engineering

Departmental Elective -IV:

1. Non Destructive Evaluation
2. Advanced Optimization Techniques
3. Gas Dynamics & Jet Propulsion
4. Quality and Reliability Engineering



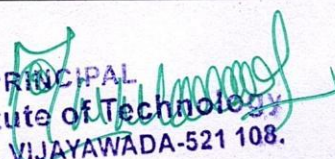
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I Year - I Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Mathematics -II (Numerical Methods and Complex Variables)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5-ES	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	1	--	3	3
7-HS	English - Communication Skills Lab -1	--	--	3	2
8-BS	Applied / Engineering Physics Laboratory	--	--	3	2
9-BS	Applied / Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10-ES	Engineering Workshop & IT Workshop	--	--	3	2
Total Credits					24

I Year - II Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics -III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4-ES	Electrical and Mechanical Technology	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Data Structures	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab -2	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24


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II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electronic Devices and Circuits	3+1	--	3
3	Data Structures	3+1	--	3
4	Environmental Studies	3	--	3
5	Signals & Systems	3+1	--	3
6	Electrical Technology	3+1	--	3
7	Electronic Devices and Circuits Lab	--	3	2
8	Networks & Electrical Technology Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Electronic Circuit Analysis	3+1	--	3
2	Management Science	3+1	--	3
3	Random Variables & Stochastic Processes	3+1	--	3
4	Switching Theory & Logic Design	3+1	--	3
5	EM Waves and Transmission Lines	3+1	--	3
6	Analog Communications	3+1	--	3
7	Electronic Circuit Analysis Lab	--	3	2
8	Analog Communications Lab	--	3	2
Total Credits				22

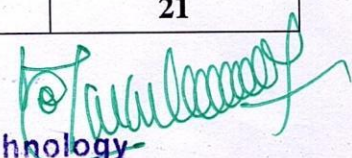
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III Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Computer Architecture and Organization	4	--	--	3
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	--	--	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


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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	VLSI Design	3+1	-	3
2	Computer Networks	3+1	-	3
3	Digital Image Processing	3+1	-	3
4	Computer Architecture & Organization	3+1	-	3
5	Elective – I	3+1	-	3
	1. Electronic Switching Systems			
	2. Analog IC Design			
	3. Object Oriented Programming & O S			
	4. Radar Systems			
5. Advanced Computer Architecture				
6	Elective – II	3+1	-	3
	1. Optical Communication			
	2. Digital IC Design			
	3. Speech Processing			
	4. Artificial Neural Network & Fuzzy Logic			
5. Network Security & Cryptography				
7	V L S I Lab	-	3	2
8	Microwave Engineering Lab	-	3	2
Total Credits				22

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Cellular Mobile Communication	3+1		3
2	Electronic Measurements and Instrumentation	3+1		3
3	Elective III	3+1		3
	1. Satellite Communication			
	2. Mixed signal Design			
	3. Embedded systems			
	4. RF Circuit Design			
5. Cloud Computing				
4	Elective IV	3+1		3
	1. Wireless Sensors and Networks			
	2. System on Chip			
	3. Low Power IC Design			
	4. Bio-Medical Instrumentation			
5. EMI/EMC				
5	Project & Seminar			9
Total Credits				21



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KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs – Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab – 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
Total Credits					24

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:
KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	Statistics with R Programming	4	--	--	3
2	Mathematical Foundations of Computer Science	4	--	--	3
3	Digital Logic Design	4	--	--	3
4	Python Programming	4	--	--	3
5	Data Structures through C++	4	--	--	3
6	Computer Graphics	4	--	--	3
7	Data Structures through C++Lab	--	--	3	2
8	Python Programming Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Software Engineering	4	--	--	3
2	Java Programming	4	--	--	3
3	Advanced Data Structures	4	--	--	3
4	Computer Organization	4	--	--	3
5	Formal Languages and Automata Theory	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Advanced Data Structures Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
Total Credits					22

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:
KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India**

III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Compiler Design	4	--	--	3
2	Unix Programming	4	--	--	3
3	Object Oriented Analysis and Design using UML	4	--	--	3
4	Database Management Systems	4	--	--	3
5	Operating Systems	4	--	--	3
6	Unified Modeling Lab	--	--	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	L	T	P	Credits
1	Computer Networks	4	2	--	3
2	Data Warehousing and Mining	4	--	--	3
3	Design and Analysis of Algorithms	4	--	--	3
4	Software Testing Methodologies	4	--	--	3
	Open Elective:				
5	i. Artificial Intelligence ii. Internet of Things iii. Cyber Security iv. Digital Signal Processing v. Embedded Systems vi. Robotics	4	--	--	3
6	Network Programming Lab	--	--	3	2
7	Software Testing Lab	--	--	3	2
8	Data Warehousing and Mining Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21


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II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Probability and statistics	4	--	3
2	Java Programming	4	--	3
3	Advanced Data Structures	4	--	3
4	Computer Organization	4	--	3
5	Formal Languages and Automata Theory	4	--	3
6	Advanced Data Structures Lab	--	3	2
7	Java Programming Lab	--	3	2
8	Free Open Source Software(FOSS) Lab	--	3	2
Total Credits				21

III Year – I SEMESTER

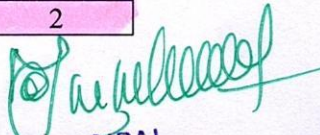
S. No.	Subject	T	P	Credits
1	Compiler Design	4	-	3
2	Data Communication	4	-	3
3	Principles of Programming Languages	4	-	3
4	Database Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Compiler Design Lab	-	3	2
7	Operating System Lab	-	3	2
8	Database Management Systems Lab	-	3	2
9	Linux Programming Lab	-	3	2
10	IPR and Patents- 1	2	-	-
11	Seminar	--	--	1
Total Credits				24

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Engineering	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Engineering Lab	-	3	2
8	Web Technologies Lab	-	3	2
9	IPR and Patents- II	2	--	--
Total Credits				21

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective –I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2


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8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
Total Credits				23

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective – III	4	-	3
2	Elective – IV	4	-	3
3	Distributed Systems	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
Total Credits				21

Elective – I:

- i) Software Testing Methodologies
- ii) Simulation Modeling
- iii) Information Retrieval Systems
- iv) Artificial Intelligence
- v) Multimedia Computing
- vi) High Performance Computing

Elective – II:

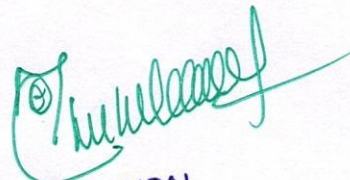
- i. Digital Forensics
- ii. Hadoop and Big Data
- iii. Software Project Management
- iv. Machine Learning
- v. Advanced Databases

Elective – III:

- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition
- v) Digital Image Processing
- vi) Micro processors and Multi Core Systems

Elective-IV:

- i) Embedded and Real Time Systems
- ii) Neural Networks & Soft Computing
- iii) Social Networks and the Semantic Web
- iv) Cloud Computing

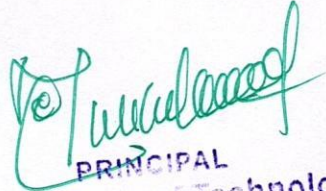

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I Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics – II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics – Virtual Labs – Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
Total Credits					24

I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab – 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
Total Credits					24


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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	Statistics with R Programming R1621051	4	--	--	3
2	Mathematical Foundations of Computer Science R1621052	4	--	--	3
3	Digital Logic Design R1621053	4	--	--	3
4	Python Programming R1621054	4	--	--	3
5	Data Structures through C++ R1621055	4	--	--	3
6	Software Engineering R1621121	4	--	--	3
7	Data Structures through C++ Lab R1621057	--	--	3	2
8	Python Programming Lab R1621058	--	--	3	2
Total Credits					22

II Year - II Semester

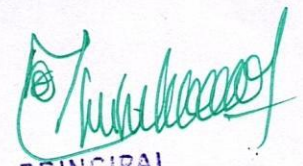
S. No.	Subjects	L	T	P	Credits
1	Computer Graphics	4	--	--	3
2	Java Programming	4	--	--	3
3	E-Commerce	4	--	--	3
4	Computer Organization	4	--	--	3
5	Object Oriented Analysis and Design using UML	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Unified Modeling Languages Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
Total Credits					22

III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Human Computer Interaction	4	--	--	3
2	Unix and Shell Programming	4	--	--	3
3	Advanced Java Programming	4	--	--	3
4	Database Management Systems	4	--	--	3
5	Operating Systems	4	--	--	3
6	Advanced Java Programming Lab	--	--	--	2
7	Unix and Operating Systems 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	L	T	P	Credits
1	Computer Networks	4	--	--	3
2	Data Mining	4	--	--	3
3	Web Technologies	4	--	--	3
4	Software Testing Methodologies	4	--	--	3
5	Open Elective:	4	--	--	3
	i. Artificial Intelligence				
	ii. Social Networks and Semantic Web				
	iii. Digital Signal Processing				
	iv. Embedded Systems				
	v. Robotics				
6	Web Technologies Lab	--	--	3	2
7	Software Testing Lab	--	--	3	2
8	Data Mining Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21



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IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective – I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2
8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
Total Credits				23

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Elective – III	4	-	3
2	Distributed Systems	4	-	3
3	Mathematical Opimization (LP, Scheduling, Simulation, QT, Markov analysis, NLP, PERT CPM Network related problems etc)	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
Total Credits				21

Elective – I:

- i) Embedded and Real Time Systems
- ii) Information Retrieval Systems
- iii) Multimedia Computing

Elective – II:

- i. Hadoop and Big Data
- ii. Software Project Management
- iii. Computer Vision
- iv. Advanced Databases

Elective – III:

- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition

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I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
Elective – 1				
5	1. SOFTWARE ENGINEERING 2. ARTIFICIAL INTELLIGENCE 3. COMPILER DESIGN 4. MACHINE LEARNING	4	--	3
Elective – 2				
6	1. IMAGE PROCESSING 2. PARALLEL ALGORITHMS 3. CLOUD COMPUTING 4. MOBILE COMPUTING	4	--	3
7	CSE LAB 2	--	3	2
Total Credits				20

III Semester

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

IV Semester

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



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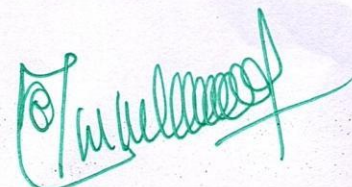
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I Semester

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	4	-	3
	I. Transform Techniques			
	II. VLSI Technology & Design			
	III. Radar Signal Processing			
6	Elective II	4	-	3
	I. Statistical Signal Processing			
	II. Optical Communication Technology			
	III. Network Security & Cryptography			
7	1. System Design & Data Communications Lab	-	3	2
Total Credits				20

II Semester

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
5	Elective III	4	-	3
	I. CMOS Analog & Digital IC Design			
	II. Advanced Computer Architecture			
	III. Soft Computing Techniques			
	IV. Cyber Security			
6	Elective IV	4	-	3
	I. DSP Processors and Architectures			
	II. EMI / EMC			
	III. Object Oriented Programming			
7	Advanced Communications Laboratory	-	3	2
Total Credits				20



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III Semester

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

IV Semester

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



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26/10/21

I Semester

Subject	Title	Marks	Credits
C-101	Principles of Management	100	3
C-102	Managerial Economics	100	3
C-103	Accounting for Managers	100	3
C-104	Managerial Communication & Soft skills	100	3
C-105	Business Environment	100	3
C-106	Quantitative Analysis for Business Decision	100	3
C-107	IT – LAB	100	3
Total Credits			21

II Semester

Subject	Title	Marks	Credits
C-201	Financial Management	100	3
C-202	Human Resource Management	100	3
C-203	Marketing Management	100	3
C-204	Production and Operations Management	100	3
C-205	Business Research Methods	100	3
C-206	Organizational Behavior	100	3
C-207	Mini Project *	50	2
	Seminar on Mini Project	50	2

III Semester

Subject	Title	Marks	Credits
C-301	Strategic Management	100	3
C -302	Legal Aspects of Business	100	3
C -303	Business Ethics & Corporate Governance	100	3
E -301	Elective – 1	100	3
E-302	Elective – 2	100	3
E-303	Elective – 3	100	3
E-304	Elective – 4	100	3

IV Semester

Subject	Title	Marks	Credits
C -401	Logistic and Supply Chain Management	100	3
C -402	Entrepreneurship Development	100	3
E-401	Elective – 5	100	3
E-402	Elective – 6	100	3
E-403	Elective – 7	100	3
E-404	Elective – 8	100	3
	Major Project & Comprehensive Viva	Grade	8
Total Marks / Credits		2700	90

Elective: The student has to choose any **ONE** Specialization from the following areas in the beginning of III Semester



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III SEMESTER

HR

	SUBJECT TITLE
Elective-1	Leadership Management
Elective-2	Compensation and Reward Management
Elective-3	Performance Management
Elective-4	Strategic Human Resource Management

FINANCE

	SUBJECT TITLE
Elective-1	Security Analysis & Portfolio Management
Elective-2	Banking and Insurance Management
Elective-3	Advance Management Accounting
Elective-4	Strategic Financial Management

MARKETING

	SUBJECT TITLE
Elective-1	Consumer Behavior
Elective-2	Retail Management
Elective-3	Customer Relationship Management
Elective-4	Strategic Human Resource Management

SYSTEMS

	SUBJECT TITLE
Elective-1	E-Business
Elective-2	RDBMS
Elective-3	Web Designing
Elective-4	Strategic Human Resource Management



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IV SEMESTER

HR

	SUBJECT TITLE
Elective-5	Organizational Development & Change Management
Elective-6	Global HRM
Elective-7	Labor Welfare & Legislation
Elective-8	Management of Industrial Relations

FINANCE

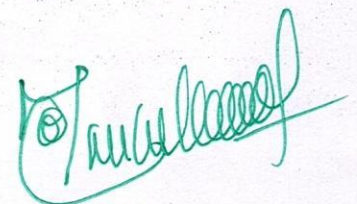
	SUBJECT TITLE
Elective-5	Financial Markets and Services
Elective-6	Global Financial Management
Elective-7	Risk Management
Elective-8	Tax Management

MARKETING

	SUBJECT TITLE
Elective-5	Services Marketing
Elective-6	Promotional Distribution Management
Elective-7	Global Marketing Management
Elective-8	Supply Chain Management

SYSTEMS

	SUBJECT TITLE
Elective-5	Business Intelligence
Elective-6	Enterprise Resource Planning
Elective-7	Cyber Laws & Security
Elective-8	Information Systems Audit



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I Semester

S. No.	Subject	T	P
1	C PROGRAMMING AND DATA STRUCTURES	4	-
2	COMPUTER ORGANIZATION	4	-
3	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	4	-
4	STATISTICAL PROGRAMMING WITH R	4	-
5	ACCOUNTING AND FINANCIAL MANAGEMENT	4	-
6	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB		3
7	C PROGRAMMING LAB	-	3
8	STATISTICAL PROGRAMMING WITH R LAB	-	3

II Semester

S. No.	Subject	T	P
1	OOPS THROUGH JAVA	4	-
2	OPERATING SYSTEMS	4	-
3	SOFTWARE ENGINEERING	4	-
4	OPTIMIZATION TECHNIQUES	4	-
5	COMPUTER GRAPHICS	4	-
6	OOPS THROUGH JAVA LAB	-	3
7	DATA STRUCTURES LAB	-	3
8	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	-	3

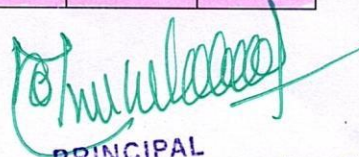

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III Semester

S. No.	Subject	T	P
1	DATA BASE MANAGEMENT SYSTEMS	4	-
2	COMPUTER NETWORKS	4	-
3	UNIX PROGRAMMING	4	-
4	MANAGEMENT INFORMATION SYSTEM	4	-
5	DESIGN AND ANALYSIS OF ALGORITHMS	4	-
6	DATA BASE MANAGEMENT SYSTEMS LAB	-	3
7	UNIX PROGRAMMING LAB	-	3
8	COMPUTER NETWORKS LAB	-	3

IV Semester

S. No.	SUBJECT	T	P
1	OBJECT ORIENTED ANALYSIS AND DESIGN	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	ELECTIVE-I MCA16.4.4.1 MOBILE COMPUTING MCA16.4.4.2 HUMAN COMPUTER INTERACTION MCA16.4.4.3 CLOUD COMPUTING	4	-
5	ELECTIVE-II MCA16.4.5.1 SOFTWARE PROJECT MANAGEMENT MCA16.4.5.2 ARTIFICIAL INTELLIGENCE MCA16.4.5.3 EMBEDDED SYSTEMS	4	-
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3
8	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	-	3


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V Semester

S. No.	SUBJECT	T	P
1	BIG DATA ANALYTICS	4	-
2	NETWORK PROGRAMMING	4	-
3	PYTHON PROGRAMMING	4	-
4	ELECTIVE-III MCA16.5.4.1 CYBER SECURITY MCA16.5.4.2 COMPUTER FORENSICS MCA16.5.4.3 E-COMMERCE	4	-
5	ELECTIVE-IV MCA16.5.5.1 INTERNET OF THINGS MCA16.5.5.2 MULTIMEDIA APPLICATION DEVELOPMENT MCA16.5.5.3 SOFTWARE TESTING METHODOLOGIES	4	-
6	BIG DATA ANALYTICS LAB	-	3
7	NETWORK PROGRAMMING LAB	-	3
8	PYTHON PROGRAMMING LAB	-	3

VI Semester

S. No.	SUBJECT
1	PROJECT SEMINAR
2	DISSERTATION/ THESIS EXCELLENT / GOOD / SATISFACTORY/ NOT SATISFACTORY



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I SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM101	English Language - I	4	100
16IM102	Business Mathematics & Statistics	4	100
16IM103	Fundamentals of Business Organization	4	100
16IM104	Financial Accounting - I	4	100
16IM105	Fundamentals of Computers	4	100
Total		20	500

II SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM201	English Language – II	4	100
16IM202	Business Environment	4	100
16IM203	Managerial Economics	4	100
16IM204	Financial Accounting – II	4	100
16IM205	Organizational Communications.	4	100
Total		20	500

III SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM301	Principles of Management	4	100
16IM302	Cost Accounting	4	100
16IM303	Banking Theory & Practice	4	100
16IM304	Business Law	4	100
16IM305	Entrepreneurship Development	4	100
Total		20	500

IV SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM401	Organizational Behavior	4	100
16IM402	Management Accounting	4	100
16IM403	Company Law	4	100
16IM404	Elements of Direct & Indirect Taxes	4	100
16IM405	Management Information Systems	4	100
Total		20	500



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V SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BM501	Entrepreneurship	4	100
13BM502	Management of Information System	4	100
13BM503	Operations Management	4	100
13BM504	Cost Accounting	4	100
13BM505	International Business	4	100
Total		20	500

VI SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BM601	Business Research Methods	4	100
13BM602	Supply Chain Management	4	100
13BM603	Creativity & Innovation	4	100
13BM604	Banking Theory and Practice	4	100
13BM605	Total Quality Management	4	100
13BM606	Mini Project Report**	4	100
13BM607	Comprehension Viva-Voce	4	100
Total		28	700

At the end of III Year **Total** **136** **3400**

VII SEMESTER

Code	Subject Code	Credits	Max. Marks
13BAM701	Strategic Management Accounting	4	100
13BAM702	Strategic Management	4	100
13BAM703	Corporate Governance	4	100
13BAM704	Elective - I	4	100
13BAM705	Elective - II	4	100
13BAM706	Seminar*	2	50
Total		22	550

VIII SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM801	Project Management	4	100
13BAM802	Intellectual Property Rights	4	100
13BAM803	Decision Support Systems	4	100
13BAM804	Elective - III	4	100
13BAM805	Elective - IV	4	100
13BAM806	Seminar*	2	50
Total		22	550

At the end of IV Year **Total** **180** **4500**

REVISED COURSE STRUCTURE 2013

VIII SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM801	Project Management	4	100
13BAM802	Intellectual Property Rights	4	100
13BAM803	Decision Support Systems	4	100
13BAM804	Elective - III	4	100
13BAM805	Elective - IV	4	100
13BAM806	Seminar*	2	50
Total		22	550
At the end of IV Year		Total	180
			4500

IX SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM901	Industrial Safety and Security	4	100
13BAM902	Leadership Management	4	100
13BAM903	Knowledge Management	4	100
13BAM904	Elective - V	4	100
13BAM905	Elective - VI	4	100
13BAM906	Seminar*	2	50
Total		22	550

X SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM1001	Major Project Report**	10	250
13BAM1002	Project Seminar	4	100
13BAM1003	Comprehension Viva - Voce	4	100
Total		18	450

13BM

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Elective - I

	SUBJECT TITLE
Marketing	Consumer Behavior
Finance	Banking & Insurance Management
HRM	Performance Management
Systems	Relational Data Base Management Systems

Elective - II

	SUBJECT TITLE
Marketing	Sales and Distribution
Finance	Investments Management
HRM	Training and Development
Systems	Enterprise Resource Planning

Elective - III

	SUBJECT TITLE
Marketing	Integrated Marketing Communications
Finance	Financial Systems & Services
HRM	Management of Industrial Relations
Systems	Business Intelligence



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Elective - IV

	SUBJECT TITLE
Marketing	Retail Management
Finance	Strategic Financial Decisions
HRM	Compensation Management
Systems	E-Business

Elective - V

	SUBJECT TITLE
Marketing	Services Marketing & Logistics Management
Finance	International Financial Management
HRM	Management of Change
Systems	Cyber Laws & Security

Elective - VI

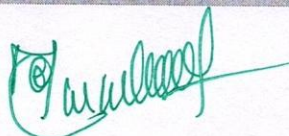
	SUBJECT TITLE
Marketing	International Marketing
Finance	Financial Risk Management & Derivatives
HRM	Leadership Management
Systems	Information Systems & Audit

*Seminar

Student requires to prepare and submit a report on conceptual understanding of any one of the subjects of the respective semester and expected to present the same in the form of PPT in the class room. The report may consist 20-25 pages.

**Mini Project Report

Student has to undergo practical training for a period of **4 (Four) weeks** in an industry after completion of **Fourth Semester** end Examination. In training period, the student should prefer to work on any specific problem, and submit the report before end of **Sixth Semester**. The Project evaluation and Comprehensive viva-voce is conducted by inter examiner



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2019-20



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

I Year – I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1101	Mathematics – I	3	0	0	3
2	BS1102	Mathematics – II	3	0	0	3
3	BS1108	Engineering Physics	3	0	0	3
4	ES1104	Engineering Mechanics	3	1	0	4
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1109	Engineering Physics Lab	0	0	3	1.5
8	PR1101	Engineering Exploration Project	0	0	2	1
Total Credits			16	0	12	19.5

I Year – II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1201	English	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1210	Engineering Chemistry	3	0	0	3
4	ES1201	Programming for problem Solving Using C	3	0	0	3
5	ES1207	Computer Aided Engineering Drawing	1	0	3	2.5
6	ES1202	Programming for problem Solving Using C Lab	0	0	3	1.5
7	BS1211	Engineering Chemistry Lab	0	0	3	1.5
8	HS1203	Communications Skills Lab	0	0	3	1.5
9	ES1219	Workshop Practice Lab	0	0	3	1.5
10	MC1201	Environmental Science	3	0	0	0
Total Credits			15	0	11	20.5

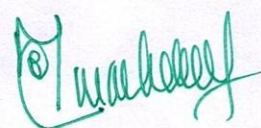
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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Probability & Statistics	4	--	--	3
2	Basic Electrical & Electronics Engineering	4	--	--	3
3	Strength of Materials-I	4	--	--	3
4	Building Materials & Construction	4	--	--	3
5	Surveying	4	--	--	3
6	Fluid Mechanics	4	--	--	3
7	Survey Field Work - I	--	--	3	2
8	Strength of Materials Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Building Planning & Drawing	4	--	--	3
2	Strength of Materials - II	4	--	--	3
3	Hydraulics & Hydraulic Machinery	4	--	--	3
4	Concrete Technology	4	--	--	3
5	Structural Analysis - I	4	--	--	3
6	Transportation Engineering - I	4	--	--	3
7	FM & HM Lab	--	--	3	2
8	Survey Field Work - II	--	--	3	2
MC	Managerial Economics & Financial Analysis	2	--	--	--
Total Credits					22



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III Year - I Semester

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	--	--	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	OPEN ELECTIVE	4	--	--	3
	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					
6	Geotechnical Engineering Lab	--	--	3	2
7	Environmental Engineering Lab	--	--	3	2
8	Computer Aided Engineering Lab	--	--	3	2
Total Credits					21

IV Year - I Semester

S. No.	Subjects	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	Elective I	4	--	--	3
	i. Finite Element Methods				
	ii. Ground Improvement Techniques				
	iii. Air Pollution & Control				
	iv. Urban Hydrology				
v. Traffic Engineering					
6	Elective II	4	--	--	3
	i. Advanced Structural Engineering				
	ii. Advanced Foundation Engineering				
	iii. Environmental Impact Assessment & Management				
	iv. Ground Water Development				
v. Pavement Analysis and Design					
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	Elective III	4	--	--	3
	i. Bridge Engineering				
	ii. Soil Dynamics and Foundations				
	iii. Solid and Hazardous Waste Management				
	iv. Water Resources Systems Planning				
v. Urban Transportation Planning Engg					
5	Seminar on Internship Project	--	3	--	2
6	Project	--	--	--	10
Total Credits					24

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


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KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE-R19

I Year – I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
Total Credits			16	0	12	19

I Year – II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1212	Fundamentals of Computers	3	0	0	3
5	ES1217	Electrical Circuit Analysis - I	3	0	0	3
6	ES1218	Electrical Engineering Workshop	0	0	3	1.5
7	BS1205	Applied Physics Lab	0	0	3	1.5
8	HS1203	Communication Skills Lab	0	1	2	2
9	PR1201	Engineering Exploration Project	0	0	2	1
Total Credits			15	1	10	21

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II Year – I Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Circuit Analysis - II	4	--	--	3
2	Electrical Machines-I	4	--	--	3
3	Basic Electronics and Devices	4	--	--	3
4	Electro Magnetic Fields	4	--	--	3
5	Thermal and Hydro Prime Movers	4	--	--	3
6	Managerial Economics & Financial Analysis	4	--	--	3
7	Thermal and Hydro Laboratory	--	--	3	2
8	Electrical Circuits Laboratory	--	--	3	2
Total Credits					22

II Year – II Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Measurements	4	--	--	3
2	Electrical Machines-II	4	--	--	3
3	Switching Theory and Logic Design	4	--	--	3
4	Control Systems	4	--	--	3
5	Power Systems-I	4	--	--	3
6	Management Science	4	--	--	3
7	Electrical Machines -I Laboratory	--	--	3	2
8	Electronic Devices & Circuits Laboratory	--	--	3	2
Total Credits					22



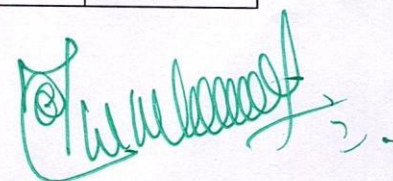
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III Year – I Semester

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 & Management	4	--	--	3
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



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IV Year – I Semester

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:	4	--	--	3
	1. Electrical Machine Modeling and Analysis				
	2. Advanced Control Systems				
	3. Programmable Logic Controllers & Applications				
4. Instrumentation					
6	Elective – II:	4	--	--	3
	1. Optimization Techniques				
	2. Electric Power Quality				
3. Special Electrical Machines					
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:	4	--	--	3
	1. High Voltage Engineering				
	2. Flexible Alternating Current Transmission Systems				
3. Power System Reforms					
5	Seminar	--	3	--	2
6	Project	--	--	--	10
Total Credits					24

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF MECHANICAL ENGINEERING

I Year – I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1101	Mathematics – I	3	0	0	3
2	BS1102	Mathematics – II	3	0	0	3
3	BS1108	Engineering Physics	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1109	Engineering Physics Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1104	Constitution of India	2	0	0	0
Total Credits			15	0	12	19

I Year – II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1201	English	3	0	0	3
2	BS1210	Engineering Chemistry	3	0	0	3
3	ES1204	Engineering Mechanics	3	0	0	3
4	ES1206	Basic Electrical & Electronics Engineering	3	0	0	3
5	ES1207	Computer Aided Engineering Drawing	1	0	3	2.5
6	HS1203	Communication Skills Lab	0	0	2	1
7	BS1211	Engineering Chemistry Lab	0	0	2	1.5
8	ES1208	Basic Electrical & Electronics Engineering Lab	0	0	3	1.5
9	ES1219	Workshop Practice Lab	0	0	3	1.5
10	PR1201	Engineering Exploration Project	0	0	2	1
Total Credits			13	0	15	21

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II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Metallurgy & Materials Science	4	--	--	3
2	Mechanics of Solids	4	--	--	3
3	Thermodynamics	4	--	--	3
4	Managerial Economics & Financial Analysis	4	--	--	3
5	Fluid Mechanics & Hydraulic Machines	4	--	--	3
6	Computer Aided Engineering Drawing Practice	3	3	--	3
7	Electrical & Electronics Engg. Lab	--	--	3	2
8	Mechanics of Solids & Metallurgy Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Kinematics of Machinery	4	--	--	3
2	Thermal Engineering -I	4	--	--	3
3	Production Technology	4	--	--	3
4	Design of Machine Members -I	4	--	--	3
5	Machine Drawing	3	3	--	3
6	Industrial Engineering and Management	4	--	--	3
7	Fluid Mechanics & Hydraulic Machines Lab	--	--	3	2
8	Production Technology Lab	--	--	3	2
Total Credits					22



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III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Dynamics of Machinery	4	--	--	3
2	Metal Cutting & Machine Tools	4	--	--	3
3	Design of Machine Members-II	4	--	--	3
4	Operations Research	4	--	--	3
5	Thermal Engineering -II	4	--	--	3
6	Theory of Machines Lab	--	--	3	2
7	Machine Tools Lab	--	--	3	2
8	Thermal Engineering Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21

III YEAR - II Semester

S. No.	Subjects	L	T	P	Credits
1	Metrology	4	--	--	3
2	Instrumentation & Control Systems	4	--	--	3
3	Refrigeration & Air-conditioning	4	--	--	3
4	Heat Transfer	4	--	--	3
5	OPEN ELECTIVE 1. Entrepreneurship 2. Data Base Management System 3. Waste Water Management 4. Computer Graphics 5. Industrial Robotics 6. Green Engineering Systems	4	--	--	3
6	Heat Transfer Lab	--	--	3	2
7	Metrology & Instrumentation Lab	--	--	3	2
8	Computational Fluid Dynamics Lab	--	--	3	2
9MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					21


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IV Year - I Semester

S. NO	Subjects	L	T	P	Credits
1	Mechatronics	4	--	--	3
2	CAD/CAM	4	--	--	3
3	Finite Element Methods	4	--	--	3
4	Power Plant Engineering	4	--	--	3
5	Elective I 1. Computational Fluid Dynamics 2. Condition Monitoring 3. Additive Manufacturing	4	--	--	3
6	Elective II 1. Advanced Materials 2. Design for Manufacture 3. Gas Dynamics & Jet Propulsion	4	--	--	3
7	CAD/CAM Lab	--	--	2	2
8	Mechatronics Lab	--	--	2	2
Total Credits					22

IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Production Planning and Control	4	--	--	3
T 2	Unconventional Machining Processes	4	--	--	3
3	Automobile Engineering	4	--	--	3
4	Elective III 1. Thermal Equipment Design 2. Non Destructive Evaluation 3. Quality and Reliability Engineering	4	--	--	3
5	Seminar	--	3	--	2
6	Project	--	--	--	10
Total Credits					24

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



PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENKEPADU, VIJAYAWADA



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

I Year – I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
Total Credits			16	0	12	19

I Year – II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1209	Network Analysis	3	0	0	3
5	ES1211	Basic Electrical Engineering	3	0	0	3
6	ES1215	Electronic workshop	0	0	2	1
7	ES1208	Basic Electrical Engineering Lab	0	0	3	1.5
8	BS1205	Applied Physics Lab	0	0	3	1.5
9	HS1203	Communication Skills Lab	0	0	2	1
10	PR1201	Engineering Exploration Project ✓	0	0	2	1
			15	0	12	21

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II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Managerial Economics and Financial Analysis	3+1	--	3
2	Electronic Devices and Circuits	3+1	--	3
3	Data Structures	3+1	--	3
4	Environmental Studies	3	--	3
5	Signals & Systems	3+1	--	3
6	Electrical Technology	3+1	--	3
7	Electronic Devices and Circuits Lab	--	3	2
8	Networks & Electrical Technology Lab	--	3	2
Total Credits				22

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Electronic Circuit Analysis	3+1	--	3
2	Management Science	3+1	--	3
3	Random Variables & Stochastic Processes	3+1	--	3
4	Switching Theory & Logic Design	3+1	--	3
5	EM Waves and Transmission Lines	3+1	--	3
6	Analog Communications	3+1	--	3
7	Electronic Circuit Analysis Lab	--	3	2
8	Analog Communications Lab	--	3	2
Total Credits				22

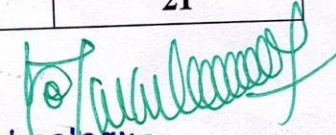
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III Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Computer Architecture and Organization	4	--	--	3
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	--	--	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


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IV Year - I Semester

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 Instrumentation	4	--	--	3
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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE - R19

I Year – I SEMESTER

S. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1112	Fundamentals of Computer Science	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1105	IT Workshop	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
Total Credits			16	0	12	19

I Year – II SEMESTER

S. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1201	Programming for Problem Solving using C	3	0	0	3
5	ES1213	Digital Logic Design	3	0	0	3
6	BS1205	Applied Physics Lab	0	0	3	1.5
7	HS1203	Communication Skills Lab	0	1	2	2
8	ES1202	Programming for Problem Solving using C Lab	0	0	3	1.5
9	PR1201	Engineering Exploration Project	0	0	2	1
10	MC1204	Constitution of India	3	0	0	0
Total Credits			18	1	10	21

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:
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KAKINADA - 533 003, Andhra Pradesh, India**

II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	Statistics with R Programming	4	--	--	3
2	Mathematical Foundations of Computer Science	4	--	--	3
3	Digital Logic Design	4	--	--	3
4	Python Programming	4	--	--	3
5	Data Structures through C++	4	--	--	3
6	Computer Graphics	4	--	--	3
7	Data Structures through C++Lab	--	--	3	2
8	Python Programming Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Software Engineering	4	--	--	3
2	Java Programming	4	--	--	3
3	Advanced Data Structures	4	--	--	3
4	Computer Organization	4	--	--	3
5	Formal Languages and Automata Theory	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Advanced Data Structures Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
Total Credits					22

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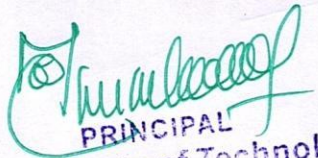
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KAKINADA - 533 003, Andhra Pradesh, India**

III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Compiler Design	4	--	--	3
2	Unix Programming	4	--	--	3
3	Object Oriented Analysis and Design using UML	4	--	--	3
4	Database Management Systems	4	--	--	3
5	Operating Systems	4	--	--	3
6	Unified Modeling Lab	--	--	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	L	T	P	Credits
1	Computer Networks	4	2	--	3
2	Data Warehousing and Mining	4	--	--	3
3	Design and Analysis of Algorithms	4	--	--	3
4	Software Testing Methodologies	4	--	--	3
	Open Elective:				
5	i. Artificial Intelligence ii. Internet of Things iii. Cyber Security iv. Digital Signal Processing v. Embedded Systems vi. Robotics	4	--	--	3
6	Network Programming Lab	--	--	3	2
7	Software Testing Lab	--	--	3	2
8	Data Warehousing and Mining Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21


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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:
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KAKINADA - 533 003, Andhra Pradesh, India**

IV Year - I Semester

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
	Elective-I				
5	i. Big Data Analytics ii. Information Retrieval Systems iii. Mobile Computing	4	--	--	3
	Elective-II				
6	i. Cloud Computing ii. Software Project Management iii. Scripting Languages	4	--	--	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	--	--	3
2- HS	Management Science	4	--	--	3
3	Machine Learning	4	--	--	3
	Elective-III				
4	i. Concurrent and Parallel Programming ii. Artificial Neural Networks iii. Operations Research	4	--	--	3
5	Seminar	--	3	--	2
6	Project	--	--	--	10
Total Credits					24

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE STRUCTURE - R19

I Year – I SEMESTER

S. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1112	Fundamentals of Computer Science	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1105	IT Workshop	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
Total Credits			16	0	12	19

I Year – II SEMESTER

S. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1201	Programming for Problem Solving using C	3	0	0	3
5	ES1213	Digital Logic Design	3	0	0	3
6	BS1205	Applied Physics Lab	0	0	3	1.5
7	HS1203	Communication Skills Lab	0	1	2	2
8	ES1202	Programming for Problem Solving using C Lab	0	0	3	1.5
9	PR1201	Engineering Exploration Project	0	0	2	1
10	MC1204	Constitution of India	3	0	0	0
Total Credits			18	1	10	21

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 ENIKEPADU, VIJAYAWADA-521 108.

II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1-HS	Statistics with R Programming R1621051	4	--	--	3
2	Mathematical Foundations of Computer Science R1621052	4	--	--	3
3	Digital Logic Design R1621053	4	--	--	3
4	Python Programming R1621054	4	--	--	3
5	Data Structures through C++ R1621055	4	--	--	3
6	Software Engineering R1621121	4	--	--	3
7	Data Structures through C++ Lab R1621057	--	--	3	2
8	Python Programming Lab R1621058	--	--	3	2
Total Credits					22

II Year - II Semester

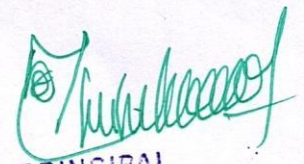
S. No.	Subjects	L	T	P	Credits
1	Computer Graphics	4	--	--	3
2	Java Programming	4	--	--	3
3	E-Commerce	4	--	--	3
4	Computer Organization	4	--	--	3
5	Object Oriented Analysis and Design using UML	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Unified Modeling Languages Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
Total Credits					22

III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Human Computer Interaction	4	--	--	3
2	Unix and Shell Programming	4	--	--	3
3	Advanced Java Programming	4	--	--	3
4	Database Management Systems	4	--	--	3
5	Operating Systems	4	--	--	3
6	Advanced Java Programming Lab	--	--	--	2
7	Unix and Operating Systems 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	L	T	P	Credits
1	Computer Networks	4	--	--	3
2	Data Mining	4	--	--	3
3	Web Technologies	4	--	--	3
4	Software Testing Methodologies	4	--	--	3
	Open Elective:				
	i. Artificial Intelligence				
	ii. Social Networks and Semantic Web				
5	iii. Digital Signal Processing	4	--	--	3
	iv. Embedded Systems				
	v. Robotics				
	vi. Operations Research				
6	Web Technologies Lab	--	--	3	2
7	Software Testing Lab	--	--	3	2
8	Data Mining Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21



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IV Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Cryptography and Network Security	4	--	--	3
2	Mobile Computing	4	--	--	3
3	Data Ware Housing and Business Intelligence	4	--	--	3
4- HS	Managerial Economics and Financial Analysis	4	--	--	3
	Elective-I				
5	i. Big Data Analytics ii. Information Retrieval Systems iii. Internet of Things iv. Multimedia Programming	4	--	--	3
	Elective-II				
6	i. Cloud Computing ii. Software Project Management iii. Machine Learning iv. Decision Support System	4	--	--	3
7	Mobile Computing Lab	--	--	3	2
8	Cryptography and Network Security Lab	--	--	3	2
Total Credits					22

IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Distributed Systems	4	--	--	3
2- HS	Management Science	4	--	--	3
3	Management Information System	4	--	--	3
	Elective-III				
4	i. Concurrent and Parallel Programming ii. Cyber Security iii. Artificial Neural Networks iv. Software Quality Assurance	4	--	--	3
5	Seminar	--	3	--	2
6	Project	--	--	--	10
Total credits					24

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


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
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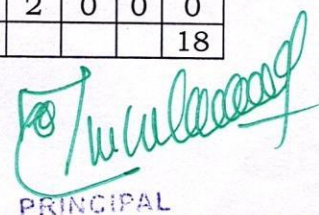
I-SEMESTER

S.No	Course Code	Courses	Category	L	T	P	C
1	MTCSE1101	Program Core-1 Mathematical Foundations of Computer Science	PC	3	0	0	3
2	MTCSE1102	Program Core-2 Advanced Data Structures & Algorithms	PC	3	0	0	3
3	MTCSE1103	Program Elective-1 1. Big Data Analytics 2. Digital Image Processing 3. Advanced Operating Systems	PE	3	0	0	3
4	MTCSE1104	Program Elective-2 1. Advanced Computer Networks 2. Internet of Things 3. Object Oriented Software Engineering	PE	3	0	0	3
5	MTCSE1105	Research Methodology and IPR	CC			0	2
6	MTCSE1106	Laboratory-1 Advanced Data Structures & Algorithms Lab	LB	0	0	4	2
7	MTCSE1107	Laboratory-2 Advanced Computing Lab	LB	0	0	4	2
8	MTCSE1108	Audit Course-1*	AC	2	0	0	0
Total Credits							18

**Student has to choose any one audit course listed below.*

II SEMESTER

S.No	Course Code	Courses	Category	L	T	P	C
1	MTCSE1201	Program Core-3 Machine learning	PC	3	0	0	3
2	MTCSE1202	Program Core-4 MEAN Stack Technologies	PC	3	0	0	3
3	MTCSE1203	Program Elective-3 1. Advanced Databases and Mining 2. Ad Hoc & Sensor Networks 3. Soft Computing	PE	3	0	0	3
4	MTCSE1204	Program Elective-4 1. Cloud Computing 2. Principles of computer security 3. High Performance Computing	PE	3	0	0	3
5	MTCSE1205	Laboratory-3 Machine Learning with python lab	LB	0	0	4	2
6	MTCSE1206	Laboratory-4 MEAN Stack Technologies Lab	LB	0	0	4	2
7	MTCSE1207	Mini Project with Seminar	MP	2	0	0	2
8	MTCSE1208	Audit Course-2 *	AC	2	0	0	0
Total Credits							18


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I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
Total Credits				20

II Semester

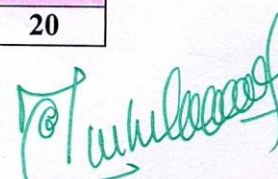
S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
	Elective – 1			
5	1. SOFTWARE ENGINEERING 2. ARTIFICIAL INTELLIGENCE 3. COMPILER DESIGN 4. MACHINE LEARNING	4	--	3
	Elective – 2			
6	1. IMAGE PROCESSING 2. PARALLEL ALGORITHMS 3. CLOUD COMPUTING 4. MOBILE COMPUTING	4	--	3
7	CSE LAB 2	--	3	2
Total Credits				20

III Semester

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

IV Semester

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


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

COURSE STRUCTURE & SYLLABUS M.Tech ECE Common for

- I. Digital Electronics & Communication Engineering (DECE)
- II. Digital Electronics & Communication Systems (DECS)
- III. Electronics & Communication Engineering (ECE)

Programme

(Applicable for batches admitted from 2019-2020)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

I Semester

S. No.	Course Type/Code	Course Name	Teaching Scheme			Credits
			L	T	P	
1	Core 1	Digital System Design	3	0	0	3
2	Core 2	Digital Data Communications	3	0	0	3
3	Prog. Specific Elective	Elective I a. Transform Techniques b. VLSI Technology and Design c. Radar Signal Processing	3	0	0	3
4	Prog. Specific Elective	Elective II a. Statistical Signal Processing b. Optical Communication Technology c. Network Security & Cryptography	3	0	0	3
5	Lab 1	System Design Using Verilog HDL Laboratory	0	0	4	2
6	Lab 2	Data Communications Laboratory	0	0	4	2
7		Research Methodology and IPR	2	0	0	2
8	Aud 1	Audit Course 1	2	0	0	0
Total Credits			16	0	8	18

II Semester

S. No.	Course Type/Code	Name of the Subject	Teaching Scheme			Credits
			L	T	P	
1	Core 3	Image and Video Processing	3	0	0	3
2	Core 4	Wireless Communications and Networks	3	0	0	3
3	Prog. Specific Elective	Elective III a. CMOS Analog & Digital IC Design b. Advanced Computer Architecture c. Soft Computing Techniques	3	0	0	3
4	Prog. Specific Elective	Elective IV a. DSP Processors and Architectures b. EMI/ EMC c. Object Oriented Programming	3	0	0	3
5	Lab 1	Advanced Communications Laboratory	0	0	4	2
6	Lab 2	Advanced digital Image & video processing Laboratory	0	0	4	2
7		Mini Project	0	0	4	2
8	Aud 2	Audit Course 2	2	0	0	0
Total Credits			14	0	12	18

III Semester

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

IV Semester

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



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26/10/21

I Semester

Subject	Title	Marks	Credits
C-101	Principles of Management	100	3
C-102	Managerial Economics	100	3
C-103	Accounting for Managers	100	3
C-104	Managerial Communication & Soft skills	100	3
C-105	Business Environment	100	3
C-106	Quantitative Analysis for Business Decision	100	3
C-107	IT – LAB	100	3
Total Credits			21

II Semester

Subject	Title	Marks	Credits
C-201	Financial Management	100	3
C-202	Human Resource Management	100	3
C-203	Marketing Management	100	3
C-204	Production and Operations Management	100	3
C-205	Business Research Methods	100	3
C-206	Organizational Behavior	100	3
C-207	Mini Project *	50	2
	Seminar on Mini Project	50	2

III Semester

Subject	Title	Marks	Credits
C-301	Strategic Management	100	3
C -302	Legal Aspects of Business	100	3
C -303	Business Ethics & Corporate Governance	100	3
E -301	Elective – 1	100	3
E-302	Elective – 2	100	3
E-303	Elective – 3	100	3
E-304	Elective – 4	100	3

IV Semester

Subject	Title	Marks	Credits
C -401	Logistic and Supply Chain Management	100	3
C -402	Entrepreneurship Development	100	3
E-401	Elective – 5	100	3
E-402	Elective – 6	100	3
E-403	Elective – 7	100	3
E-404	Elective – 8	100	3
	Major Project & Comprehensive Viva	Grade	8
Total Marks / Credits		2700	90

Elective: The student has to choose any **ONE** Specialization from the following areas in the beginning of III Semester



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III SEMESTER

HR

	SUBJECT TITLE
Elective-1	Leadership Management
Elective-2	Compensation and Reward Management
Elective-3	Performance Management
Elective-4	Strategic Human Resource Management

FINANCE

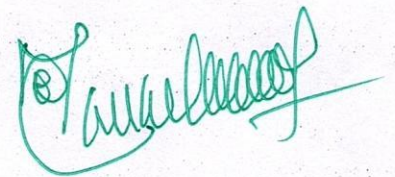
	SUBJECT TITLE
Elective-1	Security Analysis & Portfolio Management
Elective-2	Banking and Insurance Management
Elective-3	Advance Management Accounting
Elective-4	Strategic Financial Management

MARKETING

	SUBJECT TITLE
Elective-1	Consumer Behavior
Elective-2	Retail Management
Elective-3	Customer Relationship Management
Elective-4	Strategic Human Resource Management

SYSTEMS

	SUBJECT TITLE
Elective-1	E-Business
Elective-2	RDBMS
Elective-3	Web Designing
Elective-4	Strategic Human Resource Management



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IV SEMESTER

HR

	SUBJECT TITLE
Elective-5	Organizational Development & Change Management
Elective-6	Global HRM
Elective-7	Labor Welfare & Legislation
Elective-8	Management of Industrial Relations

FINANCE

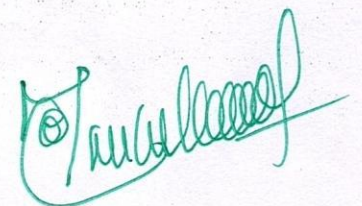
	SUBJECT TITLE
Elective-5	Financial Markets and Services
Elective-6	Global Financial Management
Elective-7	Risk Management
Elective-8	Tax Management

MARKETING

	SUBJECT TITLE
Elective-5	Services Marketing
Elective-6	Promotional Distribution Management
Elective-7	Global Marketing Management
Elective-8	Supply Chain Management

SYSTEMS

	SUBJECT TITLE
Elective-5	Business Intelligence
Elective-6	Enterprise Resource Planning
Elective-7	Cyber Laws & Security
Elective-8	Information Systems Audit



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KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

MCA I SEMESTER

S.No	Code	Courses	L	T	P	C
1	R19MCA1101	Problem Solving with C	3	0	0	3
2	R19MCA1102	Computer Organization	3	0	0	3
3	R19MCA1103	Discrete Mathematical Structures	3	0	0	3
4	R19MCA1104	Probability and Statistics	3	0	0	3
5	R19MCA1105	Accounting and Financial Management	3	0	0	3
6	R19MCA1106	English Language Communication Skills Lab	0	0	3	1.5
7	R19MCA1107	Problem Solving with C Lab	0	0	3	1.5
8	R19MCA1108	IT Workshop (Lab)	0	0	3	1.5
Total Credits						19.5

MCA II SEMESTER

S.No	Code	Courses	L	T	P	C
1	R19MCA1201	Data Structures	3	0	0	3
2	R19MCA1202	Operating Systems	3	0	0	3
3	R19MCA1203	Software Engineering	3	0	0	3
4	R19MCA1204	OOP Through Java	3	0	0	3
5	R19MCA1205	Optimization Techniques	3	0	0	3
6	R19MCA1206	OOP Through Java Lab	0	0	3	1.5
7	R19MCA1207	Data Structures Lab	0	0	3	1.5
8	R19MCA1208	Operating Systems and Linux Lab	0	0	3	1.5
Total Credits						19.5

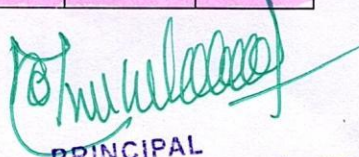
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III Semester

S. No.	Subject	T	P
1	DATA BASE MANAGEMENT SYSTEMS	4	-
2	COMPUTER NETWORKS	4	-
3	UNIX PROGRAMMING	4	-
4	MANAGEMENT INFORMATION SYSTEM	4	-
5	DESIGN AND ANALYSIS OF ALGORITHMS	4	-
6	DATA BASE MANAGEMENT SYSTEMS LAB	-	3
7	UNIX PROGRAMMING LAB	-	3
8	COMPUTER NETWORKS LAB	-	3

IV Semester

S. No.	SUBJECT	T	P
1	OBJECT ORIENTED ANALYSIS AND DESIGN	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	ELECTIVE-I MCA16.4.4.1 MOBILE COMPUTING MCA16.4.4.2 HUMAN COMPUTER INTERACTION MCA16.4.4.3 CLOUD COMPUTING	4	-
5	ELECTIVE-II MCA16.4.5.1 SOFTWARE PROJECT MANAGEMENT MCA16.4.5.2 ARTIFICIAL INTELLIGENCE MCA16.4.5.3 EMBEDDED SYSTEMS	4	-
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3
8	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	-	3


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V Semester

S. No.	SUBJECT	T	P
1	BIG DATA ANALYTICS	4	-
2	NETWORK PROGRAMMING	4	-
3	PYTHON PROGRAMMING	4	-
4	ELECTIVE-III MCA16.5.4.1 CYBER SECURITY MCA16.5.4.2 COMPUTER FORENSICS MCA16.5.4.3 E-COMMERCE	4	-
5	ELECTIVE-IV MCA16.5.5.1 INTERNET OF THINGS MCA16.5.5.2 MULTIMEDIA APPLICATION DEVELOPMENT MCA16.5.5.3 SOFTWARE TESTING METHODOLOGIES	4	-
6	BIG DATA ANALYTICS LAB	-	3
7	NETWORK PROGRAMMING LAB	-	3
8	PYTHON PROGRAMMING LAB	-	3

VI Semester

S. No.	SUBJECT
1	PROJECT SEMINAR
2	DISSERTATION/ THESIS EXCELLENT / GOOD / SATISFACTORY/ NOT SATISFACTORY



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I SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM101	English Language - I	4	100
16IM102	Business Mathematics & Statistics	4	100
16IM103	Fundamentals of Business Organization	4	100
16IM104	Financial Accounting - I	4	100
16IM105	Fundamentals of Computers	4	100
Total		20	500

II SEMESTER

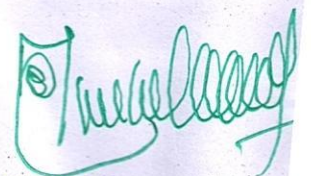
Code	SUBJECT TITLE	Credits	Max. Marks
16IM201	English Language – II	4	100
16IM202	Business Environment	4	100
16IM203	Managerial Economics	4	100
16IM204	Financial Accounting – II	4	100
16IM205	Organizational Communications.	4	100
Total		20	500

III SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM301	Principles of Management	4	100
16IM302	Cost Accounting	4	100
16IM303	Banking Theory & Practice	4	100
16IM304	Business Law	4	100
16IM305	Entrepreneurship Development	4	100
Total		20	500

IV SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
16IM401	Organizational Behavior	4	100
16IM402	Management Accounting	4	100
16IM403	Company Law	4	100
16IM404	Elements of Direct & Indirect Taxes	4	100
16IM405	Management Information Systems	4	100
Total		20	500



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V SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BM501	Entrepreneurship	4	100
13BM502	Management of Information System	4	100
13BM503	Operations Management	4	100
13BM504	Cost Accounting	4	100
13BM505	International Business	4	100
Total		20	500

VI SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BM601	Business Research Methods	4	100
13BM602	Supply Chain Management	4	100
13BM603	Creativity & Innovation	4	100
13BM604	Banking Theory and Practice	4	100
13BM605	Total Quality Management	4	100
13BM606	Mini Project Report**	4	100
13BM607	Comprehension Viva-Voce	4	100
Total		28	700

At the end of III Year

Total

136

3400

VII SEMESTER

Code	Subject Code	Credits	Max. Marks
13BAM701	Strategic Management Accounting	4	100
13BAM702	Strategic Management	4	100
13BAM703	Corporate Governance	4	100
13BAM704	Elective - I	4	100
13BAM705	Elective - II	4	100
13BAM706	Seminar*	2	50
Total		22	550

VIII SEMESTER

Code	SUBJECT TITLE	Credits	Max. Marks
13BAM801	Project Management	4	100
13BAM802	Intellectual Property Rights	4	100
13BAM803	Decision Support Systems	4	100
13BAM804	Elective - III	4	100
13BAM805	Elective - IV	4	100
13BAM806	Seminar*	2	50
Total		22	550

At the end of IV Year

Elective - I

	SUBJECT TITLE
Marketing	Consumer Behavior
Finance	Banking & Insurance Management
HRM	Performance Management
Systems	Relational Data Base Management Systems

Elective - II

	SUBJECT TITLE
Marketing	Sales and Distribution
Finance	Investments Management
HRM	Training and Development
Systems	Enterprise Resource Planning

Elective - III

	SUBJECT TITLE
Marketing	Integrated Marketing Communications
Finance	Financial Systems & Services
HRM	Management of Industrial Relations
Systems	Business Intelligence



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Elective - IV

	SUBJECT TITLE
Marketing	Retail Management
Finance	Strategic Financial Decisions
HRM	Compensation Management
Systems	E-Business

Elective - V

	SUBJECT TITLE
Marketing	Services Marketing & Logistics Management
Finance	International Financial Management
HRM	Management of Change
Systems	Cyber Laws & Security

Elective - VI

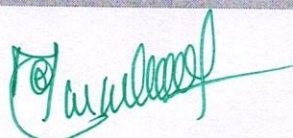
	SUBJECT TITLE
Marketing	International Marketing
Finance	Financial Risk Management & Derivatives
HRM	Leadership Management
Systems	Information Systems & Audit

*Seminar

Student requires to prepare and submit a report on conceptual understanding of any one of the subjects of the respective semester and expected to present the same in the form of PPT in the class room. The report may consist 20-25 pages.

**Mini Project Report

Student has to undergo practical training for a period of **4 (Four) weeks** in an industry after completion of **Fourth Semester** end Examination. In training period, the student should prefer to work on any specific problem, and submit the report before end of **Sixth Semester**. The Project evaluation and Comprehensive viva-voce is conducted by inter examiner



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