

Grams: "Technology"
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Andhra Pradesh Legislative Act No. 30 of 2008)
Kukatpally, Hyderabad - 500 085 - Andhra Pradesh- INDIA.

Dr. G.K.VISWANADH
B.E. (Civil) M.E., Ph.D., F.I.E., MISTE, MIAH, MDVRS, MISRS, AIJOSH
Professor of Civil Engg &
DIRECTOR, ACADEMIC & PLANNING

Date 24.09.2013

Lr. No. A1/1623/2013

To
The Principal, College of Engineering, Jagityal/Manthani/Sulthanpur and
The Principals of Affiliated Colleges of JNTUH.

Sir,
Sub:- JNTUH, Hyderabad - Academic & Planning - Revised the Academic
Regulations, Course Structure and Syllabus of all UG and PG Courses
from the Academic year 2013-14 -- Reg.

You are aware that the University has revised the Academic Regulations, Course
Structure and Syllabus of all UG and PG Courses as R13 Regulations from the Academic
year 2013-14 and placed in the University Website. ([http://jntu.ac.in/new/academic/
dap_downloads.html](http://jntu.ac.in/new/academic/dap_downloads.html))

You are requested to download the R13 Academic Regulations, Course Structure
and I year Syllabus of all UG Courses and full syllabus of PG Courses;

This is for your information and necessary action.

Yours sincerely


DIRECTOR

- Copy to PA to Vice-Chancellor.
- Copy to PA to Rector/Registrar.
- Copy to all the Directors of the University
- Copy to the Controller of Examinations.
- Copy to the DE with a request to place in Exam Portal.
- Copy to the Director, AAC with a request to place in AAC Portal.



Principal

Balaji Institute of Technology & Science
Laknepally, Md: Narsampet,
Warangal - 506 334

Handwritten notes:
T/c exam
Take printout of
Academic regulations
course structure
I year B.Tech syllabus
Full p.g. syllabus

Handwritten date:
25/9/13

1.2 Academic Flexibility (30)				
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1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years (10)

Name of the new course introduced in the last 5 years	Program name	Program code	Course code	Year of introduction
Mathematics - I	CE	01	MA101BS	2018-19
Engineering Physics	CE	01	PH102BS	2018-19
Programming For Problem Solving	CE	01	CS103ES	2018-19
Environmental Science	CE	01	MC109ES	2018-19
Mathematics - I I	CE	01	MA201BS	2018-19
Chemistry	CE	01	CH202BS	2018-19
Surveying And Geomatics	CE	01	CE301PC	2018-19
Engineering Geology	CE	01	CE302PC	2018-19
Probability And Statistics	CE	01	MA304BS	2018-19
Constitution Of India	CE	01	MC309	2018-19
Basic Electrical And Electronics Engineering	CE	01	EE401ES	2018-19
Gender Sensitization Lab	CE	01	MC409	2018-19
Mathematics - I	CSE	05	MA101BS	2018-19
Chemistry	CSE	05	CH102BS	2018-19
Mathematics - I I	CSE	05	MA201BS	2018-19
Applied Physics	CSE	05	AP202BS	2018-19
Programming For Problem Solving	CSE	05	CS203ES	2018-19
Environmental Science	CSE	05	MC209ES	2018-19
Computer Oriented Statistical Methods	CSE	05	MA303BS	2018-19
Discrete Mathematics	CSE	05	CS401PC	2018-19



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Gender Sensitization Lab	ECE	04	MC409	2018-19
Mathematics - I	ECE	04	MA101BS	2018-19
Applied Physics	ECE	04	AP102BS	2018-19
Programming For Problem Solving	ECE	04	CS103ES	2018-19
Mathematics - Ii	ECE	04	MA201BS	2018-19
Chemistry	ECE	04	CH202BS	2018-19
Network Analysis And Transmission Lines	ECE	04	EC302PC	2018-19
Digital System Design	ECE	04	EC303PC	2018-19
Constitution Of India	ECE	04	MC309	2018-19
Laplace Transforms, Numerical Methods & Complex Variables	ECE	04	MA401BS	2018-19
Mathematics - I	EEE	02	MA101BS	2018-19
Mathematics - I I	EEE	02	MA201BS	2018-19
Applied Physics	EEE	02	AP202BS	2018-19
Programming For Problem Solving	EEE	02	CS203ES	2018-19
Engineering Mechanics	EEE	02	EE301ES	2018-19
Electrical Circuit Analysis	EEE	02	EE302PC	2018-19
Analog Electronics	EEE	02	EE303PC	2018-19
Gender Sensitization Lab	EEE	02	MC309	2018-19
Laplace Transforms, Numerical Methods & Complex Variables	EEE	02	MA401BS	2018-19
Electrical Machines – I I	EEE	02	EE402PC	2018-19
Digital Electronics	EEE	02	EE403PC	2018-19
Power System - I	EEE	02	EE405PC	2018-19
Constitution Of India	EEE	02	MC409	2018-19



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Gender Sensitization Lab	EEE	02	MC309	2018-19
Mathematics - I	ME	03	MA101BS	2018-19
Engineering Physics	ME	03	PH102BS	2018-19
Programming For Problem Solving	ME	03	CS103ES	2018-19
Environmental Science	ME	03	MC109ES	2018-19
Mathematics - II	ME	03	MA201BS	2018-19
Chemistry	ME	03	CH202BS	2018-19
Probability And Statistics & Complex Variables	ME	03	MA301BS	2018-19
Mechanics Of Solids	ME	03	ME302PC	2018-19
Material Science And Metallurgy	ME	03	ME303PC	2018-19
Constitution Of India	ME	03	MC309	2018-19
Network Security And Cryptography	CSE(M.Tech)	58	5458AD	2017-18
Software Architecture And Design Patterns	CSE(M.Tech)	58	5458AK	2017-18
Data Warehousing And Data Mining	CSE(M.Tech)	58	5458AR	2017-18
Software Process And Project Management	CSE(M.Tech)	58	5458AY	2017-18
Principles Of Electronic Communications	CSE(M.Tech)	58	5404AZ	2017-18
Data Warehousing And Data Mining	CSE(M.Tech)	58	5458AR	2017-18
Software Process And Project Management	CSE(M.Tech)	58	5458AY	2017-18
Principles Of Computer Communications And Netv	CSE(M.Tech)	58	5404CZ	2017-18
Digital Marketing	MBA	1E	17MBA18M1	2017-18
Advertising And Sales Management	MBA	1E	17MBA19M2	2017-18
Consumer Behaviour	MBA	1E	17MBA20M3	2017-18
Customer Relationship Management	MBA	1E	17MBA22M4	2017-18


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International Marketing	MBA	1E	17MBA23M5	2017-18
Marketing Of Services	MBA	1E	17MBA24M6	2017-18
Security Analysis And Portfolio Management	MBA	1E	17MBA18F1	2017-18
Financial Institutions, Markets & Services	MBA	1E	17MBA19F2	2017-18
Strategic Management Accounting	MBA	1E	17MBA20F3	2017-18
International Financial Management	MBA	1E	17MBA22F4	2017-18
Strategic Investment And Financing Decisions	MBA	1E	17MBA23F5	2017-18
Risk Management	MBA	1E	17MBA24F6	2017-18
Performance Management Systems	MBA	1E	17MBA18H1	2017-18
Learning And Development	MBA	1E	17MBA19H2	2017-18
Management Of Industrial Relations	MBA	1E	17MBA20H3	2017-18
International Human Resource Management	MBA	1E	17MBA22H4	2017-18
Leadership And Change Management	MBA	1E	17MBA23H5	2017-18
Talent And Knowledge Management	MBA	1E	17MBA24H6	2017-18
Start Up Management	MBA	1E	17MBA18E1	2017-18
Msme Management	MBA	1E	17MBA19E2	2017-18
Family Business Management	MBA	1E	17MBA20E3	2017-18
Entrepreneurial Finance	MBA	1E	17MBA22E4	2017-18
Entrepreneurial Marketing	MBA	1E	17MBA23E5	2017-18
Creativity Innovation And Entrepreneurship	MBA	1E	17MBA24E6	2017-18
Gender Sensitization Lab	CE	01	MC300HS	2016-17
Disater Management	CE	01	CE511OE	2016-17
Remote Sensing And Gis	CE	01	CE621OE	2016-17



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Geoinformatics	CE	01	CE622OE	2016-17
Intellectual Proerty Rights	CE	01	CE623OE	2016-17
Java Programming	CE	01	CS621OE	2016-17
Air Pollution And Control.	CE	01	CE611PE	2016-17
Advanced Structural Analysis.	CE	01	CE612PE	2016-17
Ground Water Development And Management	CE	01	CE613PE	2016-17
Earth And Rock Fill Dams And Slope Stability.	CE	01	CE614PE	2016-17
Fundamental Of Mechanioical Engineering	CE	01	ME514OE	2016-17
Stochastic Hydrology.	CE	01	CE721PE	2016-17
Construction Technology And Management.	CE	01	CE722PE	2016-17
Foundation Engineering.	CE	01	CE723PE	2016-17
Rehabilitation And Retrofitting Of Structures	CE	01	CE724PE	2016-17
Watershed Management.	CE	01	CE731PE	2016-17
Prestressed Concrete.	CE	01	CE732PE	2016-17
Ground Improvement Techniques.	CE	01	CE733PE	2016-17
Railway And Airport Engineering.	CE	01	CE734PE	2016-17
Traffic Engineering.	CE	01	CE741PE	2016-17
Bridge Engineering.	CE	01	CE742PE	2016-17
Soil Dynamics And Machine Foundation.	CE	01	CE743PE	2016-17
Irrigation And Hydraulic Structures	CE	01	CE744PE	2016-17
Waste Management.	CE	01	CE851PE	2016-17
Pavement Design.	CE	01	CE852PE	2016-17
Elements Of Earthquake Engineering.	CE	01	CE853PE	2016-17



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Water Resources Systems Analysis.	CE	01	CE854PE	2016-17
Finite Element Methods For Civil Engineering.	CE	01	CE861PE	2016-17
Geoenvironmental Engineering.	CE	01	CE862PE	2016-17
Design And Drawing Of Irrigation Structures.	CE	01	CE863PE	2016-17
Industrial Waste Water Treatment.	CE	01	CE864PE	2016-17
Operating Systems	CSE	05	CS511OE	2016-17
Database Management Systems	CSE	05	CS512OE	2016-17
Java Programming	CSE	05	CS621OE	2016-17
Software Testing Methodologies Cs623Oe: Cyber S	CSE	05	CS622OE	2016-17
Linux Programming	CSE	05	CS831OE	2016-17
R Programming	CSE	05	CS832OE	2016-17
Php Programming	CSE	05	CS833OE	2016-17
Mobile Computing	CSE	05	CS611PE	2016-17
Design Patterns	CSE	05	CS612PE	2016-17
Artificial Intelligence	CSE	05	CS613PE	2016-17
Information Security Management (Security Anal	CSE	05	CS614PE	2016-17
Introduction To Analytics (Associate Analytics	CSE	05	CS615PE	2016-17
Python Programming	CSE	05	CS721PE	2016-17
Web Scripting Languages	CSE	05	CS723PE	2016-17
Mobile Application Development	CSE	05	CS722PE	2016-17
Internet Of Things	CSE	05	CS724PE	2016-17
Graph Theory	CSE	05	CS731PE	2016-17
Distributed Systems	CSE	05	CS732PE	2016-17


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Machine Learning	CSE	05	CS733PE	2016-17
Software Process And Project Management	CSE	05	CS734PE	2016-17
Computational Complexity	CSE	05	CS741PE	2016-17
Cloud Computing	CSE	05	CS742PE	2016-17
Blockchain Technology	CSE	05	CS743PE	2016-17
Social Network Analysis	CSE	05	CS744PE	2016-17
Information Theory & Coding	CSE	05	CS851PE	2016-17
Real-Time Systems	CSE	05	CS852PE	2016-17
Data Analytics	CSE	05	CS853PE	2016-17
Modern Software Engineering	CSE	05	CS854PE	2016-17
Advanced Algorithms	CSE	05	CS861PE	2016-17
Web Services And Service Oriented Architecture	CSE	05	CS862PE	2016-17
Computer Forensics	CSE	05	CS863PE	2016-17
Neural Networks And Deep Learning	CSE	05	CS864PE	2016-17
Database Management System	ECE	04	CS512OE	2016-17
Operating System	ECE	04	CS511OE	2016-17
Java Programming	ECE	04	CS621OE	2016-17
Software Testing Methodologies	ECE	04	CS622OE	2016-17
Cyber Security	ECE	04	CS623OE	2016-17
Computer Organization And Operating System	ECE	04	EC611PE	2016-17
Digital Image Processing	ECE	04	EC612PE	2016-17
Spread Spectrum Communications	ECE	04	EC613PE	2016-17
Digital System Design	ECE	04	EC614PE	2016-17


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Database Management System	ECE	04	CS512OE	2016-17
Operating System	ECE	04	CS511OE	2016-17
Computer Networks	ECE	04	EC721PE	2016-17
Fpga Programming	ECE	04	EC722PE	2016-17
Coding Theory And Techniques	ECE	04	EC723PE	2016-17
Soft Computing Techniques	ECE	04	EC724PE	2016-17
Wireless Communications And Networks	ECE	04	EC731PE	2016-17
Internet Of Things	ECE	04	EC732PE	2016-17
Radar Systems	ECE	04	EC733PE	2016-17
Embedded Sytem Design	ECE	04	EC734PE	2016-17
Optimization Techniques	ECE	04	EC741PE	2016-17
Object Oriented Programming	ECE	04	EC742PE	2016-17
Electronic Measurements And Instrumentation	ECE	04	EC743PE	2016-17
Artificial Intelligence	ECE	04	EC744PE	2016-17
Network Security And Cryptography	ECE	04	EC851PE	2016-17
Optical Communications	ECE	04	EC853PE	2016-17
Machine Learning	ECE	04	EC854PE	2016-17
Actuators And Robot Systems	ECE	04	EC861PE	2016-17
Analog Cmos Ic Design	ECE	04	EC862PE	2016-17
Global Positioning System	ECE	04	EC863PE	2016-17
Computer Vision	ECE	04	EC864PE	2016-17
System Design Using Fpgas	ECE	04	EC852PE	2016-17
Non-Conventional Power Generation	EEE	02	EE511OE	2016-17



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Electrical Engineering Material	EEE	02	EE512OE	2016-17
Nanotechnology	EEE	02	EE513OE	2016-17
Database Management Systems	EEE	02	CS512OE	2016-17
Design Estimation And Costing Of Electrical Syste	EEE	02	EE621OE	2016-17
Energy Storage Systems	EEE	02	EE622OE	2016-17
Introduction To Mechatronics	EEE	02	EE623OE	2016-17
Java Programming	EEE	02	CS621OE	2016-17
Computer Organization	EEE	02	EM611PE	2016-17
Linear Systems Analysis	EEE	02	EE612PE	2016-17
Linear And Digital Ic Applications	EEE	02	EE613PE	2016-17
Electrical And Electronics Instrumentation	EEE	02	EE614PE	2016-17
Digital Signal Processing	EEE	02	EE721PE	2016-17
Hvdc Transmission	EEE	02	EE722PE	2016-17
Switch Mode Power Supplies	EEE	02	ET721PE	2016-17
Reliability Engineering	EEE	02	EE724PE	2016-17
Digital Control Systems	EEE	02	EE731PE	2016-17
Power Quality	EEE	02	EE732PE	2016-17
Modern Power Electronics	EEE	02	EE733PE	2016-17
Optimization Techniques	EEE	02	EE734PE	2016-17
Programmable Logic Controllers	EEE	02	EE741PE	2016-17
Ehv Ac Transmission Systems	EEE	02	EE742PE	2016-17
Flexible A.C. Transmission Systems	EEE	02	EE743PE	2016-17
Special Machines	EEE	02	EE744PE	2016-17


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Artificial Neural Networks And Fuzzy Systems	EEE	02	EE851PE	2016-17
Electrical Distribution Systems	EEE	02	EE852PE	2016-17
High Voltage Engineering	EEE	02	EE854PE	2016-17
Wind, Solar And Hybrid Energy Systems	EEE	02	EE853PE	2016-17
Vlsi Design	EEE	02	EE861PE	2016-17
Smart Electric Grid	EEE	02	EE862PE	2016-17
Utilization Of Electric Power	EEE	02	EE863PE	2016-17
Electric And Hybrid Vehicles	EEE	02	EE864PE	2016-17
Introduction To Mechatronics	ME	03	ME513OE	2016-17
Fundamentals Of Mechanical Engineering	ME	03	ME514OE	2016-17
World Class Manufacturing	ME	03	ME621OE	2016-17
Fundamentals Of Robotics	ME	03	ME622OE	2016-17
Fabrication Processes	ME	03	ME623OE	2016-17
Total Quality Management	ME	03	ME831OE	2016-17
Industrial Safety, Health, And Environmental Eng	ME	03	ME832OE	2016-17
Basics Of Thermodynamics	ME	03	ME833OE	2016-17
Reliability Engineering	ME	03	ME834OE	2016-17
Finite Element Methods	ME	03	ME611PE	2016-17
Refrigeration And Air Conditioning	ME	03	ME612PE	2016-17
Machine Tool Design	ME	03	ME613PE	2016-17
Ic Engines And Gas Turbines	ME	03	ME614PE	2016-17


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Composite Materials	ME	03	ME721PE	2016-17
Industrial Management	ME	03	ME722PE	2016-17
Power Plant Engineering	ME	03	ME723PE	2016-17
Operations Research	ME	03	ME724PE	2016-17
Engineering Tribology	ME	03	ME731PE	2016-17
Computational Fluid Dynamics	ME	03	ME732PE	2016-17
Robotics	ME	03	ME733PE	2016-17
Cnc Technology	ME	03	ME734PE	2016-17
Mechanical Vibrations	ME	03	ME741PE	2016-17
Turbo Machines	ME	03	ME742PE	2016-17
Mems	ME	03	ME743PE	2016-17
Additive Manufacturing Technology	ME	03	ME744PE	2016-17
Automation In Manufacturing	ME	03	ME851PE	2016-17
Fluid Power System	ME	03	ME852PE	2016-17
Renewable Energy Sources	ME	03	ME853PE	2016-17
Production Planning And Control	ME	03	ME854PE	2016-17
Automobile Engineering	ME	03	ME861PE	2016-17
Advanced Mechanics Of Solids	ME	03	ME862PE	2016-17
Unconventional Machining Processes	ME	03	ME863PE	2016-17
Advanced Materials Technology	ME	03	ME864PE	2016-17
Mechanical Behaviour Of Materials	CAD/CAM(M.Tech)	4	5204AD	2015-16
Automation In Manufacturing	CAD/CAM(M.Tech)	4	5204AG	2015-16
Production And Operations Management	CAD/CAM(M.Tech)	4	5204AM	2015-16


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Special Manufacturing Process	CAD/CAM(M.Tech)	4	5204AT	2015-16
Advanced Mechatronics	CAD/CAM(M.Tech)	4	5204AV	2015-16
Quality Engineering In Manufacturing	CAD/CAM(M.Tech)	4	5204AZ	2015-16
Cloud Computing	CSE(M.Tech)	58	5258AF	2015-16
Software Architecture And Design Patterns	CSE(M.Tech)	58	5258AK	2015-16
Java Programming	CSE(M.Tech)	58	5258AZ	2015-16
Storage Area Networks	CSE(M.Tech)	58	5258BT	2015-16
Distributed Computing	CSE(M.Tech)	58	5258BZ	2015-16
Computer Forensics	CSE(M.Tech)	58	5258AV	2015-16
High Voltage Engineering	EPS(M.Tech)	7	5207AE	2015-16
Distribution Automation	EPS(M.Tech)	7	5207AJ	2015-16
Renewable Energy Systems	EPS(M.Tech)	7	5207AN	2015-16
Gas Insulated Systems(Gis)	EPS(M.Tech)	7	5207AW	2015-16
Reactive Power Compensation And Management	EPS(M.Tech)	7	5207AZ	2015-16
Ai Techniques In Electrical Engineering	EPS(M.Tech)	7	5207BF	2015-16
Vlsi Technology And Design	ES(M.Tech)	55	5255AE	2015-16
Digital System Design	ES(M.Tech)	55	5255AG	2015-16
Tcp/Ip Networks	ES(M.Tech)	55	5255AK	2015-16
System On Chip Architecture	ES(M.Tech)	55	5255AV	2015-16
Hardware Software Co-Design	ES(M.Tech)	55	5255AY	2015-16
Adhoc Wireless And Sensor Networks	ES(M.Tech)	55	5255BA	2015-16
Training And Development	HR	1E	723AM	2015-16
Management Of Industrial Relations	HR	1E	723AN	2015-16


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Total Quality Management	MBA	1E	721AH	2015-16
Logistics & Supply Chain Management	MBA	1E	721CT	2015-16
Consumer Behaviour	MBA	1E	723AD	2015-16
Sales And Distribution	MBA	1E	723AE	2015-16
Integrated Marketing Communications	MBA	1E	723AF	2015-16
Strategic Management Accounting	MBA	1E	723AG	2015-16
Security Analysis And Portfolio Management	MBA	1E	723AH	2015-16
Financial Institutions, Markets & Services	MBA	1E	723AJ	2015-16
Performance Management	MBA	1E	723AK	2015-16
Cloud Computing	SE(M.Tech)	25	5225AD	2015-16
Object Oriented Modelling	SE(M.Tech)	25	5225AK	2015-16
Java Programming	SE(M.Tech)	25	5225AZ	2015-16
Scripting Languages	SE(M.Tech)	25	5225BR	2015-16
Information Security And Audit	SE(M.Tech)	25	5225BY	2015-16
Computer Forensics	SE(M.Tech)	25	5225AV	2015-16
Disaster Management	CE	01	A60117	2013-14
Intellectual Property Rights	CE	01	A60017	2013-14
Human Values And Professional	CE	01	A60018	2013-14
Elements Of Earthquake Engineering	CE	01	A60123	2013-14
Ground Improvement Techniques	CE	01	A60127	2013-14
Ground Water Hydrology	CE	01	A60128	2013-14
Environment Impact Assesment	CE	01	A60124	2013-14
Principle Of Entrepreneurship	CE	01	A60129	2013-14


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Finite Element Methods	CE	01	A70330	2013-14
Advanced Foundation Engineering	CE	01	A70134	2013-14
Watershed Management	CE	01	A70145	2013-14
Air Pollution Control	CE	01	A70136	2013-14
Advanced Structural Design	CE	01	A70135	2013-14
Earth Rock Fill Dams Slope	CE	01	A70137	2013-14
Water Resources System Analysis	CE	01	A70144	2013-14
Industrial Waste Water Treatment	CE	01	A70139	2013-14
Rehabilitation And Retrofitting Of Structures	CE	01	A80151	2013-14
Geo-Environmental Engineering	CE	01	A80148	2013-14
Design And Drawing Of Irrigation Structures	CE	01	A80147	2013-14
Solid Waste Management	CE	01	A80141	2013-14
Disaster Management	CSE	05	A60117	2013-14
Intellectual Property Rights	CSE	05	A60017	2013-14
Human Values And Professional Ethics	CSE	05	A60018	2013-14
Software Project Management	CSE	05	A70540	2013-14
Image Processing And Pattern Recognition	CSE	05	A70532	2013-14
Mobile Computing	CSE	05	A70536	2013-14
Computer Graphics	CSE	05	A70529	2013-14
Operations Research	CSE	05	A70352	2013-14
Machine Learning	CSE	05	A70534	2013-14
Soft Computing	CSE	05	A70539	2013-14
Information Retrieval Systems	CSE	05	A70533	2013-14


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Computer Forensics	CSE	05	A70628	2013-14
Artificial Intelligence	CSE	05	A70526	2013-14
Web Services	CSE	05	A80551	2013-14
Semantic Web And Social Networks	CSE	05	A80538	2013-14
Scripting Languages	CSE	05	A80537	2013-14
Multimedia & Rich Internet Applications	CSE	05	A80547	2013-14
Ad Hoc And Sensor Networks	CSE	05	A80542	2013-14
Storage Area Networks	CSE	05	A80550	2013-14
Embedded Systems	CSE	05	A80439	2013-14
Database Security	CSE	05	A80543	2013-14
Software Process And Project Management	CSE(M.Tech)	58	5158G	2013-14
Software Architecture And Design Patterns	CSE(M.Tech)	58	5158J	2013-14
Advanced Data Mining	CSE(M.Tech)	58	5158O	2013-14
Semantic Web And Social Networks	CSE(M.Tech)	58	5158R	2013-14
Image And Video Processing	DSCE(M.Tech)	6	5106F	2013-14
Cmos Digital Integrated Circuit Design	DSCE(M.Tech)	6	5106H	2013-14
Cpld And Fpga Architectures And Applications	DSCE(M.Tech)	6	5106O	2013-14
Digital Signal Processors And Architectures	DSCE(M.Tech)	6	5106S	2013-14
Disaster Management	ECE	04	A60117	2013-14
Intellectual Property Rights	ECE	04	A60017	2013-14
Human Values And Professional Ethics	ECE	04	A60018	2013-14
Digital Image Processing	ECE	04	A70436	2013-14
Multimedia And Signal Coding	ECE	04	A70443	2013-14


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Object Oriented Programming Through Java	ECE	04	A70505	2013-14
Television Engineering	ECE	04	A70447	2013-14
Optical Communications	ECE	04	A70444	2013-14
Embedded Systems Design	ECE	04	A70440	2013-14
Satellite Communications	ECE	04	A80452	2013-14
Biomédical Instrumentation	ECE	04	A81102	2013-14
Artificial Neural Network	ECE	04	A80527	2013-14
Telecommunication Switching Systems And Networks	ECE	04	A80431	2013-14
Radar Systems	ECE	04	A80450	2013-14
Network Security	ECE	04	A80449	2013-14
Wireless Communications And Networks	ECE	04	A80454	2013-14
Digital Signal Processors And Architectures	ECE	04	A80437	2013-14
Rf Circuit Design	ECE	04	A80451	2013-14
Disaster Management	EEE	02	A60117	2013-14
Intellectual Property Rights	EEE	02	A60017	2013-14
Human Values And Professional	EEE	02	A60018	2013-14
High Voltage Engineering	EEE	02	A70228	2013-14
Vlsi Design	EEE	02	A70432	2013-14
Digital Control Systems	EEE	02	A70435	2013-14
Optimization Techniques	EEE	02	A70229	2013-14
Electrical Distribution Systems	EEE	02	A70226	2013-14
Electrical Estimation And Costing	EEE	02	A70227	2013-14
Neural Networks And Fuzzy Logic	EEE	02	A80238	2013-14


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Renewable Energy Sources	EEE	02	A80324	2013-14
Principles Of Reliability Engineering	EEE	02	A80244	2013-14
Advanced Control Systems	EEE	02	A80234	2013-14
Ehv Ac Transmission	EEE	02	A80235	2013-14
Nanotechnology	EEE	02	A82909	2013-14
High Voltage Engineering	EPS(M.Tech)	7	5107F	2013-14
Distribution Automation	EPS(M.Tech)	7	5107H	2013-14
Gas Insulated Systems(GIS)	EPS(M.Tech)	7	5107O	2013-14
Reactive Power Compensation And Management	EPS(M.Tech)	7	5107R	2013-14
Vlsi Technology And Design	ES(M.Tech)	55	5155G	2013-14
Digital System Design	ES(M.Tech)	55	5155J	2013-14
Wireless Communications And Networks	ES(M.Tech)	55	5155P	2013-14
System On Chip Architecture	ES(M.Tech)	55	5155S	2013-14
Disaster Management	ME	03	A60117	2013-14
Intellectual Property Rights	ME	03	A60017	2013-14
Human Values And Professional Ethics	ME	03	A60018	2013-14
Robotics	ME	03	A70355	2013-14
Mechanical Vibrations	ME	03	A70346	2013-14
Mechatronics	ME	03	A70348	2013-14
Industrial Management	ME	03	A70332	2013-14
Mechanics Of Composite Materials	ME	03	A70347	2013-14
Unconventional Machining Processes	ME	03	A70359	2013-14
Cnc Technology	ME	03	A70337	2013-14


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Automation In Manufacturing	ME	03	A70336	2013-14
Design For Manufacturing	ME	03	A70339	2013-14
Nanotechnology	ME	03	A72909	2013-14
Artificial Neural Networks	ME	03	A80527	2013-14
Total Quality Management	ME	03	A80367	2013-14
Maintenance And Safety Engineering	ME	03	A80363	2013-14
Plant Layout & Material Handling	ME	03	A80365	2013-14
Renewable Energy Sources	ME	03	A80324	2013-14
Jet Propulsion & Rocket Engineering	ME	03	A80362	2013-14
Computational Fluid Dynamics	ME	03	A80338	2013-14
Gas Dynamics	ME	03	A80361	2013-14
Industrial Management	ME	03	A70332	2013-14
Information Security And Audit	SE(M.Tech)	25	5125E	2013-14
Object Oriented Modeling	SE(M.Tech)	25	5125I	2013-14
Semantic Web And Social Networks	SE(M.Tech)	25	5125Q	2013-14
Cloud Computing	SE(M.Tech)	25	5125R	2013-14


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Date: 2nd July, 2018.

MINUTES OF MEETING

The College Academic Committee meeting was held on 02-07-2018 at 1.40.PM in the Principal Chamber.

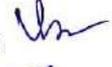
The following members were present in the meeting:

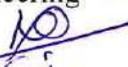
- Dr .V.S . Hariharan
- Mr. M.Palani samy
- Dr.P. Arul Kumar
- Dr.V. Vikram Reddy
- Dr. N. Venu
- Dr.K.Srinivas
- Dr. V. Sudhakar Rao

Principal (Chairperson) - 

HoD of CIVIL Engineering 

HoD of EEE Department 

HoD of Mechanical Engineering 

HoD of ECE Department 

HoD of CSE Department 

HoD of H&S Department 

AGENDA:

- 1) JNTUH Letters And Regulations In View Of New Courses
- 2) Academic Planning and Development.
- 3) Any Other

Minutes of Meeting:

- Chairman of the meeting Dr.V.S.Hariharan initiated the meeting with welcome note to all HoD's for new Academic Year.
- All the Heads of the Departments are requested to go through the recent updations in syllabus and proceed accordingly in line Curriculum and syllabus for B. Tech M.Tech & MBA.
 1. JNTUH has Introduced New Courses In Each Department.



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2. The New Courses introduced for the Departments of Civil Engineering ,Electrical and Electronics Engineering, Mechanical Engineering ,Electronics and Communication Engineering, Computer Science and Engineering for R18 Regulations.
3. All HoD's also requested to check the availability of books and put request if required for any subjects.
4. HoD's should nominate senior faculty members for new courses for better results.
5. Discussion regarding previous CAC minutes.

The meeting concluded with a vote of thanks by Principal **Dr. V. S. Hariharan**.



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Date: 30th June, 2016.

MINUTES OF MEETING

The College Academic Committee meeting was held on 30-06-2016 at 1.40.PM in the Principal Chamber.

The following members were present in the meeting:

- | | |
|--------------------------|-------------------------------|
| • Dr.V.S. Hariharan | Principal (Chairperson) |
| • Mr. Manku Venkat reddy | HoD of CIVIL Engineering |
| • Mr. S. Manikandan | HoD of EEE Department |
| • Dr R. Murugan | HoD of Mechanical Engineering |
| • Dr.N. Venu | HoD of ECE Department |
| • Mr.Fasi Ahmed Parvez | HoD of CSE Department |
| • Dr. V. Sudhakar Rao | HoD of H&S Department |
| • Dr.G.Naresh | HoD of MBA |

AGENDA:

- 1) JNTUH Letters And Regulations In View Of New Courses
- 2) Academic Planning
- 3) Any Other

Minutes of Meeting:

- **Chairman** Of The Meeting Dr.V.S.Hariharan initiated the meeting with welcome note to all hod's for new Academic Year
- All the heads of the departments are requested to go through the recent updations in syllabus and proceed accordingly in line curriculum and syllabus For B. Tech, M.Tech & MBA
 1. JNTUH has Introduced New Courses In Each Department.

PRINCIPAL

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2. The New Courses introduced for the Departments of Civil Engineering ,Electrical and Electronics Engineering, Mechanical Engineering ,Electronics and Communication Engineering, Computer Science and Engineering for R16 Regulation.
6. All HoD's also requested to check the availability of books and put request if required for any subjects.
7. HoD's should nominate senior faculty members for new courses for better results.

The meeting concluded with a vote of thanks by Principal **Dr. V. S. Hariharan**.



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Date: 27th June, 2015.

MINUTES OF MEETING

The College Academic Committee meeting was held on 27-06-2015 at 1.40.PM in the Principal Chamber.

The following members were present in the meeting:

- | | | |
|-------------------------|-------------------------------|--------------|
| • Dr .V.S . Hariharan | Principal (Chairperson) | <i>cus</i> |
| • Mr.Manku Venkat reddy | HoD of CIVIL Engineering | <i>any</i> |
| • Dr.S. Manikandan | HoD of EEE Department | <i>S.S.B</i> |
| • Dr .R.Murugan | HoD of Mechanical Engineering | <i>Deeth</i> |
| • Dr.Vilas Nitnaware | HoD of ECE Department | <i>Sh</i> |
| • Mrs.Balne Sridevi | HoD of CSE Department | <i>Ve</i> |
| • Dr.V.Sudhakar Rao | HoD of H&S Department | <i>Sh</i> |
| • Dr.G.Naresh | HoD of MBA | <i>Sh</i> |

AGENDA:

- 1) JNTUH Letters And Regulations In View Of New Courses
- 2) Academic Planning
- 3) Any Other

Minutes of Meeting:

- **Chairman** Of The Meeting Dr.V.S. Hariharan initiated the meeting with welcome note to all hod's for new academic year.
- All The Heads of the Departments are requested to go through the recent changes in syllabus and proceed accordingly in line curriculum and syllabus For B. Tech, M.Tech & MBA.
 1. JNTUH has Introduced Few New Courses In Each Department.

V.S. Hariharan
PRINCIPAL

Principal
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2. The New Courses introduced for the Departments of Civil Engineering ,Electrical and Electronics Engineering, Mechanical Engineering ,Electronics and Communication Engineering, Computer Science and Engineering for R15 and R13 Regulations.
3. All HoD's also requested to check the availability of books and put request if required for any subjects.
4. HoD's should nominate senior faculty members for new courses for better results.

The meeting concluded with a vote of thanks by Principal **Dr. V. S. Hariharan**.



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CURRICULUM

B.Tech I Year COURSE STRUCTURE (2018-19)

Regulation -18

Common for Civil, ME, AE, ME (M), MME, Mining & Petroleum Engg.

I YEAR I SEMESTER [01]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
		Total Credits	12	3	8	19.0



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II YEAR I SEMESTER [J01]

S. No.	Course Code	Course Title	L	T	P	Credits
1	CE301PC	Surveying and Geomatics	3	0	0	3
2	CE302PC	Engineering Geology	2	0	0	2
3	CE303PC	Strength of Materials - I	3	1	0	4
4	MA304BS	Probability and Statistics	3	1	0	4
5	CE305PC	Fluid Mechanics	3	1	0	4
6	CE306PC	Surveying Lab	0	0	3	1.5
7	CE307PC	Strength of Materials Lab	0	0	3	1.5
8	CE308PC	Engineering Geology Lab	0	0	2	1.0
9	*MC309	Constitution of India	3	0	0	0
		Total Credits	17	3	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE401ES	Basic Electrical and Electronics Engineering	3	0	0	3
2	CE402ES	Basic Mechanical Engineering for Civil Engineers	2	0	0	2
3	CE403PC	Building Materials, Construction and Planning	3	0	0	3
4	CE404PC	Strength of Materials - II	3	0	0	3
5	CE405PC	Hydraulics and Hydraulic Machinery	3	0	0	3
6	CE406PC	Structural Analysis - I	3	0	0	3
7	CE407PC	Computer aided Civil Engineering Drawing	0	0	3	1.5
8	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1.0
9	CE409PC	Hydraulics and Hydraulic Machinery Lab	0	0	3	1.5
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	17	0	10	21



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B.Tech COURSE STRUCTURE (2016-17)
R16 Regulation
I YEAR I SEMESTER [01]

S. No	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	MA102BS	Mathematics-II	4	1	0	4
3	PH103BS	Engineering Physics	3	0	0	3
4	CS104ES	Computer Programming in C	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	ME106ES	Engineering Graphics	2	0	4	4
7	PH107BS	Engineering Physics Lab	0	0	3	2
8	CS108ES	Computer Programming in C Lab	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
		Total Credits	18	2	10	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	AP201BS	Applied Physics	3	0	0	3
2	CH202BS	Engineering Chemistry	4	0	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	EN204HS	Professional Communication in English	3	0	0	3
5	EE205ES	Basic Electrical & Electronics Engineering	4	0	0	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	EN207HS	English Language Communication Skills Lab	0	0	3	2
8	ME208ES	Engineering Workshop	0	0	3	2
9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	18	1	9	24



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II YEAR I SEMESTER [01]

S. No	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Mathematics - IV	4	1	0	4
2	CE302ES	Strength of Materials - I	4	1	0	4
3	CE303ES	Fluid Mechanics - I	4	1	0	4
4	CE304ES	Building Material, Construction and Planning	3	0	0	3
5	CE305ES	Surveying	3	0	0	3
6	CE306ES	Strength of Material Lab	0	0	3	2
7	CE307ES	Computer Aided Design – I Lab	0	0	3	2
8	CE308ES	Surveying lab - I	0	0	3	2
9	*MC300HS	Gender Sensitization Lab	0	0	3	0
		Total Credits	18	3	12	24

II YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE401ES	Strength of Material - II	4	1	0	4
2	CE402ES	Fluid Mechanics - II	4	1	0	4
3	CE403ES	Structural Analysis	4	1	0	4
4	CV404ES	Engineering Geology	3	0	0	3
5	SM405MS	Business Economic and Financial Analysis	3	0	0	3
6	CE406ES	Fluid Mechanics Lab	0	0	3	2
7	CE408ES	Surveying - II Lab	0	0	3	2
8	CV407ES	Engineering Geology Lab	0	0	3	2
9	*MC400ES	Environmental Science and Technology	3	0	0	0
		Total Credits	21	3	9	24



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III YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE501PC	Concrete Technology	4	0	0	4
2	CE502PC	Design of Reinforced Concrete Structures	4	1	0	4
3	CE503PC	Water Resources Engineering	4	0	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective –I CE511OE: Disaster Management. CS511OE: Operating Systems CS512OE: Database Management Systems ME514OE: Fundamentals of Mechanical Engineering	3	0	0	3
6	CE505PC	Concrete Technology Lab	0	0	3	2
7	CE506PC	Geographical Information Systems Lab	0	0	3	2
8	CE507PC	Hydraulics and Hydraulic Machinery Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	1	9	24

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE601PC	Design of Steel Structures	4	1	0	4
2	CE602PC	Environmental Engineering	4	0	0	4
3	CE603PC	Soil Mechanics	4	0	0	4
4		Open Elective-II CE621OE: Remote Sensing and GIS CE622OE: GeoInformatics CE623OE: Intellectual Property Rights CS621OE: Java Programming	3	0	0	3


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		CS622OE: Software Testing Methodologies CS623OE: Cyber Security				
5		Professional Elective-I CE611PE Air Pollution and Control. CE612PE Advanced Structural Analysis. CE613PE Ground Water Development and Management. CE614PE Earth and Rock fill Dams and Slope Stability.	3	0	0	3
6	CE604PC	Soil Mechanics Lab	0	0	3	2
7	CE605PC	Computer Aided Drafting - II Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	1	9	24

IV YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE701PC	Transportation Engineering	4	0	0	4
2	CE702PC	Estimation Quantity Surveying and Valuation	4	1	0	4
3		Professional Elective - II CE721PE Stochastic Hydrology. CE722PE Construction Technology and Management. CE723PE Foundation Engineering. CE724PE Rehabilitation and Retrofitting of Structures	3	0	0	3
4		Professional Elective - III	3			


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		CE731PE Watershed Management. CE732PE Prestressed Concrete. CE733PE Ground Improvement Techniques. CE734PE Railway and Airport Engineering.				
5		Professional Elective -IV CE741PE Traffic Engineering. CE742PE Bridge Engineering. CE743PE Soil Dynamics and Machine Foundation. CE744PE Irrigation and Hydraulic Structures	3	0	0	3
6	CE703PC	Transportation Engineering Lab	0	0	3	2
7	CE704PC	Environmental Engineering Lab	0	0	3	2
8	CE705PC	Industry Oriented Mini Project	0	0	3	2
9	CE706PC	Seminar	0	0	2	1
		Total Credits	17	1	11	24

IV YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective - III CE831OE: Environmental Impact Assessment	3	0	0	3
2		Professional Elective -V CE851PE Waste Management. CE852PE Pavement Design. CE853PE Elements of Earthquake Engineering. CE854PE Water Resources Systems Analysis.	3	0	0	3
3		Professional Elective -VI CE861PE Finite Element Methods for Civil Engineering.	3	0	0	3

		CE862PE Geo environmental Engineering. CE863PE Design and Drawing of Irrigation Structures. CE864PE Industrial Waste Water Treatment.				
4	CE801PC	Major Project	0	0	30	15
		Total Credits	9	0	30	24


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R15 REGULATION

B.Tech I Year COURSE STRUCTURE (2015-16)

I YEAR [01]

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10302	Engineering Mechanics	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics & Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30006	Mathematics – II	4	-	4
A30203	Electrical & Electronics Engineering	4	-	4
A30107	Strength of Materials –I	4	-	4
A30108	Surveying	4	-	4
A30101	Fluid Mechanics	4	-	4
A30010	Managerial Economics and Financial Analysis	4	-	4


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A30185	Surveying Lab- I	-	3	2
A30183	Strength of Materials Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER [01]

Code	Subject	L	T/P/D	C
A40008	Probability & Statistics	4	-	4
A40114	Strength of Materials - II	4	-	4
A40111	Hydraulics & Hydraulic Machinery	4	-	4
A40009	Environmental Studies	4	-	4
A40115	Structural Analysis –I	4	-	4
A40109	Building Materials, Construction & Planning	4	-	4
A40186	Computer Aided Drafting of Buildings	-	3	2
A40190	Surveying Lab- II	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50116	Concrete Technology	4	-	4
A50121	Reinforced Concrete Structures Design and Drawing	4	-	4
A50118	Engineering Geology	4	-	4
A50120	Geotechnical Engineering	4	-	4
A50122	Water Resources Engineering-I	4	-	4
	Open Elective	4	-	4
A50117	Disaster Management			
A50017	Intellectual Property Rights			
A50018	Human Values and Professional Ethics			
A50181	Fluid Mechanics & Hydraulic Machinery Lab	-	3	2

A50191	Engineering Geology Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER [01]

Code	Subject	L	T/P/D	C
A60130	Steel Structures Design and Drawing	3	2	4
A60119	Environmental Engineering	4		4
A60132	Transportation Engineering -I	4		4
A60126	Foundation Engineering	4		4
A60131	Structural Analysis -II	4		4
	Elective -I	4	-	4
A60123	Elements of Earthquake Engineering			
A60127	Ground Improvement Techniques			
A60128	Ground Water Hydrology			
A60124	Environmental Impact Assessment			
A60129	Principles of Entrepreneurship			
A60194	Geotechnical Engineering Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	23	8	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A70140	Remote Sensing & GIS	4	-	4
A70143	Transportation Engineering -II	4	-	4
A70138	Estimating & Costing	4	-	4
A70133	Water Resources Engineering-II	4	-	4
	Elective-II	4	-	4

A70330	Finite Element Methods			
A70134	Advanced Foundation Engineering			
A70145	Watershed Management			
A70136	Air Pollution and Control			
	Elective-III	4	-	4
A70135	Advanced Structural Design			
A70137	Earth and Rock fill Dams and Slope Stability			
A70144	Water Resources Systems Analysis			
A70139	Industrial Waste Water Treatment			
A70195	Concrete & Highway Materials Lab	-	3	2
A70192	Environmental Engineering Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
	Elective-IV	4	-	4
A80151	Rehabilitation and Retrofitting of Structures			
A80148	Geo-Environmental Engineering			
A80147	Design and Drawing of Irrigation Structures			
A80141	Solid Waste Management			
A80150	Prestressed Concrete Structures	4	-	4
A80146	Construction Management	4	-	4
A80087	Industry Oriented Mini project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive viva	-	-	2
	Total	12	21	28


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CURRICULUM

B.Tech I Year COURSE STRUCTURE (2018-19) Regulation -18

Common for EEE, CSE & IT

I YEAR I SEMESTER [02]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Total Credits	12	2	10	19

IYEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18



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II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE301ES	Engineering Mechanics	3	1	0	4
2	EE302PC	Electrical Circuit Analysis	3	1	0	4
3	EE303PC	Analog Electronics	3	0	0	3
4	EE304PC	Electrical Machines - I	3	1	0	4
5	EE305PC	Electromagnetic Fields	3	0	0	3
6	EE306PC	Electrical Machines Lab - I	0	0	2	1
7	EE307PC	Analog Electronics Lab	0	0	2	1
8	EE308PC	Electrical Circuits Lab	0	0	2	1
9	MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex variables	3	1	0	4
2	EE402PC	Electrical Machines – II	3	1	0	4
3	EE403PC	Digital Electronics	3	0	0	3
4	EE404PC	Control Systems	3	1	0	4
5	EE405PC	Power System - I	3	0	0	3
6	EE406PC	Digital Electronics Lab	0	0	2	1
7	EE407PC	Electrical Machines Lab - II	0	0	2	1
8	EE408PC	Control Systems Lab	0	0	2	1
9	MC409	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

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B.Tech COURSE STRUCTURE (2016-17)

R16 Regulation

ELECTRICAL AND ELECTRONICS ENGINEERING

(Common forEEE, ECE, CSE, EIE, BME, IT, ETE, ECM, ICE)

I YEAR I SEMESTER [02]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Engineering Chemistry	4	0	0	4
3	PH103BS	Engineering Physics-I	3	0	0	3
4	EN104HS	Professional Communication in English	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	EE106ES	Basis Electrical and Electronics Engineering	4	0	0	4
7	EN107HS	English Language Communication Skills Lab	0	0	3	2
8	ME108ES	Engineering Workshop	0	0	3	2
9	EA109MC	NSS	0	0	0	0
		Total Credits	20	1	6	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	PH201BS	Engineering Physics-II	3	0	0	3
2	MA202BS	Mathematics-II	4	1	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	CS204ES	Computer Programming in C	3	0	0	3
5	ME205ES	Engineering Graphics	2	0	4	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	PH207BS	Engineering Physics Lab	0	0	3	2
8	CS208ES	Computer Programming in C Lab	0	0	3	2
9	EA209MC	NCC/NSO	0	0	0	0
		Total Credits	16	2	13	24


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II YEAR I SEMESTER [02]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Mathamatics – IV	4	1	0	4
2	EE302ES	Electromagnetic Fields	4	1	0	4
3	EE303ES	Electrical Machines-I	4	1	0	4
4	EE304ES	Network Theory	3	0	0	3
5	EE305ES	Electronic Circuits	3	0	0	3
6	EE306ES	Electrical Machines Lab - I	0	0	3	2
7	EC306ES	Electronic Devices & Circuits Lab	0	0	3	2
8	EE307ES	Networks Lab	0	0	3	2
9	MC300ES	Environmental Science and Technology	3	0	0	0
		Total Credits	21	3	9	24

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC401ES	Switching Theory & Logic Design	3	1	0	3
2	EE402ES	Power Systems - I	4	1	0	4
3	EE403ES	Electrical Machines – II	4	1	0	4
4	EE404ES	Control Systems	4	1	0	4
5	SM405MS	Business Economics and Financial Analysis	3	0	0	3
6	EE406ES	Control Systems Lab	0	0	3	2
7	EE407ES	Electrical Machines Lab - II	0	0	3	2
8	EE408ES	Electronic Circuits Lab	0	0	3	2
9	MC400HS	Gender Sensitization Lab	0	0	3	0
		Total Credits	18	4	12	24



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III YEAR I SEMESTER [02]

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE501PC	Electrical Measurements & Instrumentation	4	1	0	4
2	EE502PC	Power Systems - II	4	1	0	4
3	EI503PC	Microprocessors and Microcontrollers	4	1	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective - I EE511OE: Non-Conventional Power Generation EE512OE: Electrical Engineering Materials EE513OE: Nanotechnology CS511OE: Operating Systems CS512OE: Database Management Systems	3	0	0	3
6	EE505PC	Electrical Measurements & Instrumentation Lab	0	0	3	2
7	EE506PC	Basic Electrical simulation Lab	0	0	3	2
8	EI507PC	Microprocessors and Microcontrollers Lab	0	0	3	2
9	MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	3	9	24

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE601PC	Power Systems Analysis	4	1	0	4
2	EE602PC	Power Electronics	4	1	0	4
3	EE603PC	Switch Gear and Protection	4	1	0	4
4		Open Elective - II EE621OE: Design Estimation and Costing of Electrical Systems EE622OE: Energy Storage Systems EE623OE: Introduction to Mechatronics CS621OE: Java Programming CS622OE: Software Testing Methodologies CS623OE: Cyber Security	3	0	0	3
5		Professional Elective - I EM611PE Computer Organization EE612PE Linear Systems Analysis EE613PE Linear and Digital IC Applications EE614PE Electrical and Electronics Instrumentation	3	0	0	3
6	EE604PC	Power Systems Lab	0	0	3	2
7	EE605PC	Power Electronics Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	3	0	24



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IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE701PC	Power Semiconductor Drives	4	1	0	4
2	EE702PC	Power System Operation and control	4	1	0	4
3		Professional Elective - II EE721PE -Digital Signal Processing EE722PE -HVDC Transmission ET721PE -Switch Mode Power Supplies EE724PE -Reliability Engineering	3	0	0	3
4		Professional Elective - III EE731PE Digital Control Systems EE732PE Power Quality EE733PE Modern Power Electronics EE734PE Optimization Techniques	3	0	0	3
5		Professional Elective - IV EE741PE Programmable Logic Controllers EE742PE EHV AC Transmission Systems EE743PE Flexible A.C. Transmission Systems EE744PE Special Machines	3	0	0	3
6	EE703PC	Electrical Systems Simulation Lab	0	0	3	2
7	EE704PC	Electrical Workshop	0	0	3	2
8	EE705PC	Industry Oriented Mini Project	0	0	3	2
9	EE706PC	Seminar	0	0	2	1
		Total Credits	17	2	11	24

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Open Elective - III EE831OE: Entrepreneur Resource Planning EE832OE: Management Information Systems EE833OE: Organizational Behaviour	3	0	0	3
2		Professional Elective-V EE851PE Artificial Neural Networks and Fuzzy Systems EE852PE Electrical Distribution Systems EE853PE Wind, Solar and Hybrid Energy Systems EE854PE High Voltage Engineering	3	0	0	3
3		Professional Elective-VI EE861PE VLSI Design EE862PE Smart Electric Grid EE863PE Utilization of Electric Power EE864PE Electric and Hybrid Vehicles	3	0	0	3
4	EE801PC	Major Project	0	0	30	15
		Total Credits	9			

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R15 REGULATION

B.Tech I Year COURSE STRUCTURE (2015-16)

ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR [02]

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30007	Mathematics – III	4	-	4
A30102	Fluid Mechanics and Hydraulic Machinery	4	-	4
A30404	Electronic Devices & Circuits	4	-	4
A30204	Electrical Circuits	4	-	4
A30403	Electromagnetic fields	4	-	4
A30206	Electrical Machines-I	4	-	4
A30181	Fluid Mechanics and Hydraulic Machinery Lab	-	3	2
A30482	Electronic devices & Circuit labs	-	3	2
	Total	24	6	28



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II YEAR II SEMESTER [02]

Code	Subject	L	T/P/D	C
A40010	Managerial Economics & Financial Analysis	4	-	4
A40214	Power Systems-I	4	-	4
A40413	Electronic Circuits	4	-	4
A40407	Switching Theory and Logic Design	4	-	4
A40213	Network Theory	4	-	4
A40212	Electrical Machines-II	4	-	4
A40287	Electrical Machines lab -I	-	3	2
A40286	Electrical Circuits and Simulation Lab	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50423	IC Applications	4	-	4
A50014	Management Science	4	-	4
A50221	Power Systems-II	4	-	4
A50211	Control Systems	4	-	4
A50220	Power Electronics	4	-	4
A50218	Electrical Machines-III	4	-	4
A50289	Electrical Machines lab –II	-	3	2
A50086	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A60223	Electrical and Electronics Instrumentation	4	-	4
A60225	Static Drives	4	-	4
A60222	Computer Methods in Power Systems	4	-	4
A60430	Microprocessors and Interfacing Devices	4	-	4
A60009	Environmental Studies	4	-	4
A60117	Open Elective	4	-	4
A60017	Disaster Management			
A60018	Intellectual Property Rights			
	Human Values and Professional Ethics			
A60290	Control Systems and Simulation Lab	-	3	2
A60291	Power Electronics and Simulation Lab	-	3	2
	Total	24	6	28


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IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A70231	Switch Gear and Protection	4	-	4
A70232	Utilization of Electrical Energy	4	-	4
A70421	Digital Signal Processing	4	-	4
A70230	Power System Operation and Control	4	-	4
	Elective-I	4	-	4
A70228	High Voltage Engineering			
A70432	VLSI Design			
A70435	Digital Control Systems			
	Elective-II	4	-	4
A70229	Optimization Techniques			
A70226	Electrical Distribution Systems			
A70227	Electrical Estimation and Costing			
A70498	Microprocessors and Interfacing Devices Lab	-	3	2
A70293	Electrical Measurements Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A80237	Fundamentals of HVDC and FACTS Devices	4	-	4
	Elective-III	4	-	4
A80238	Neural Networks and Fuzzy Logic			
A80324	Renewable Energy Sources			
A80244	Principles of Reliability Engineering			
	Elective-IV	4	-	4
A80234	Advanced Control Systems			
A80235	EHV AC Transmission			
A82909	Nanotechnology			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive Viva-Voce	-	-	2
	Total	12	21	28


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CURRICULUM

B.Tech I Year COURSE STRUCTURE (2018-19)

Regulation -18

Common for ECE & EIE [04]

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	AP102BS	Applied Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	AP105BS	Applied Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	MC109ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	EE203ES	Basic Electrical Engineering	3	0	0	3
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
8	EE208ES	Basic Electrical Engineering Lab	0	0	2	1
		Total Credits	12	2	10	19



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II-YearI-SEMESTER [04]

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC301PC	Electronic Devices and Circuits	3	1	0	4
2	EC302PC	Network Analysis and Transmission Lines	3	0	0	3
3	EC303PC	Digital System Design	3	1	0	4
4	EC304PC	Signals and Systems	3	1	0	4
5	EC305ES	Probability Theory and Stochastic Processes	3	0	0	3
6	EC306PC	Electronic Devices and Circuits Lab	0	0	2	1
7	EC307PC	Digital System Design Lab	0	0	2	1
8	EC308ES	Basic Simulation Lab	0	0	2	1
9	*MC309	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex Variables	3	1	0	4
2	EC402PC	Electromagnetic Fields and Waves	3	0	0	3
3	EC403PC	Analog and Digital Communications	3	1	0	4
4	EC404PC	Linear IC Applications	3	0	0	3
5	EC405PC	Electronic Circuit Analysis	3	0	0	3
6	EC406PC	Analog and Digital Communications Lab	0	0	3	1.5
7	EC407PC	IC Applications Lab	0	0	3	1.5
8	EC408PC	Electronic Circuit Analysis Lab	0	0	2	1
9	MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	2	10	21


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B.Tech COURSE STRUCTURE (2016-17) –R16 Regulation**ELECTRONICS AND COMMUNICATION ENGINEERING****I YEAR I SEMESTER [04]**

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Engineering Chemistry	4	0	0	4
3	PH103BS	Engineering Physics-I	3	0	0	3
4	EN104HS	Professional Communication in English	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	EE106ES	Basis Electrical and Electronics Engineering	4	0	0	4
7	EN107HS	English Language Communication Skills Lab	0	0	3	2
8	ME108ES	Engineering Workshop	0	0	3	2
9	EA109MC	NSS	0	0	0	0
		Total Credits	20	1	6	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	PH201BS	Engineering Physics-II	3	0	0	3
2	MA202BS	Mathematics-II	4	1	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	CS204ES	Computer Programming in C	3	0	0	3
5	ME205ES	Engineering Graphics	2	0	4	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	PH207BS	Engineering Physics Lab	0	0	3	2
8	CS208ES	Computer Programming in C Lab	0	0	3	2
9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	16	2	13	24



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II YEAR I SEMESTER [04]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Mathematics – IV	4	1	0	4
2	EC302ES	Analog Electronics	4	1	0	4
3	EC303ES	Electrical Technology	4	1	0	4
4	EC304ES	Signals and Stochastic Process	3	1	0	3
5	EC305ES	Network Analysis	3	1	0	3
6	EC306ES	Electronic Devices and Circuits Lab	0	0	3	2
7	EC307ES	Basic Simulation Lab	0	0	3	2
8	EC308ES	Basic Electrical Engineering Lab	0	0	3	2
9	*MC300ES	Environmental Science and Technology	3	0	0	0
		Total Credits	21	5	9	24

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC401ES	Switching Theory and Logic Design	3	1	0	3
2	EC402ES	Pulse and Digital Circuits	4	0	0	4
3	EE404ES	Control Systems	4	1	0	4
4	EC405ES	Analog Communications	4	0	0	4
5	SM405MS	Business Economics and Financial Analysis	3	0	0	3
6	EC406ES	Analog Communications Lab	0	0	3	2
7	EC407ES	Pulse and Digital Circuits Lab	0	0	3	2
8	EC408ES	Analog Electronics Lab	0	0	3	2
9	*MC400HS	Gender Sensitization Lab	0	0	3	0
		Total Credits	18	2	12	24


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III YEAR I SEMESTER [04]

S. No	Course Code	Course Title	L	T	P	Credits
1	EC501PC	Electromagnetic Theory and Transmission Lines	4	1	0	4
2	EC502PC	Linear and Digital IC Applications	4	0	0	4
3	EC503PC	Digital Communications	4	1	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective – I EC511OE: Principles of Electronic Communications CS511OE: Operating Systems CS512OE: Database Management Systems	3	0	0	3
6	EC505PC	Linear IC Applications Lab	0	0	3	2
7	EC506PC	Digital IC Applications Lab	0	0	3	2
8	EC507PC	Digital Communications Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	2	9	24

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-II EC621OE: Principles of Computer Communications and Networks CS621OE: Java Programming CS622OE: Software Testing Methodologies CS623OE: Cyber Security	3	0	0	3
2		Professional Elective-I EC611PE Computer Organization and Operating System EC612PE Digital Image Processing EC613PE Spread Spectrum Communications EC614PE Digital system Design	3	0	0	3
3	EC601PC	Antennas and Wave Propagation	4	0	0	4
4	EC602PC	Microprocessors and Microcontrollers	4	0	0	4
5	EC603PC	Digital Signal Processing	4	0	0	4
6	EC604PC	Digital Signal Processing Lab	0	0	3	2
7	EC605PC	Microprocessors and Microcontrollers Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	0	0
		Total Credits	18	0	0	18


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IV YEAR I SEMESTER

S.No.	CourseCode	Course Title	L	T	P	Credits
1	EC701PC	Microwave Engineering	4	0	0	4
2		Professional Elective - II EC721PE Computer Networks EC722PE FPGA Programming EC723PE Coding Theory and Techniques EC724PE Soft Computing Techniques	3	0	0	3
3		Professional Elective - III EC731PE Wireless Communications and Networks EC732PE Internet of Things EC733PE Radar Systems EC734PE Embedded System Design	3	0	0	3
4		Professional Elective - IV EC741PE Optimization Techniques EC742PE Object Oriented Programming EC743PE Electronic Measurements and Instrumentation EC744PE Artificial Intelligence	3	0	0	3
5	EC702PC	VLSI Design	4	0	0	4
6	EC703PC	VLSI and E-CAD Lab	0	0	3	2
7	EC704PC	Microwave Engineering Lab	0	0	3	2
8	EC705PC	Industry Oriented Mini Project	0	0	3	2
9	EC706PC	Seminar	0	0	2	1
		Total Credits	17	0	11	24

IV YEAR II SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1		Open Elective – III EC831OE: Electronic Measuring Instruments	3	0	0	3
2		Professional Elective -V EC851PE Network Security and Cryptography EC852PE System Design Using FPGAs EC853PE Optical Communications EC854PE Machine Learning	3	0	0	3
3		Professional Elective -VI EC861PE Actuators and Robot Systems EC862PE Analog CMOS IC Design EC863PE Global Positioning System EC864PE Computer Vision	3	0	0	3
4	EC801PC	Major Project	0	0	30	15
		Total Credits	9			



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R15 REGULATION

B.Tech I Year COURSE STRUCTURE (2015-16)

ELECTRONICS AND COMMUNICATION ENGINEERING [04]

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30007	Mathematics - III	4	-	4
A30405	Probability Theory and Stochastic Processes	4	-	4
A30407	Switching Theory and Logic Design	4	-	4
A30204	Electrical Circuits	4	-	4
A30404	Electronic Devices and Circuits	4	-	4
A30406	Signals and Systems	4	-	4
A30482	Electronic Devices and Circuits Lab.	-	3	2
A30481	Basic Simulation Lab.	-	3	2
	Total	24	6	28



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II YEAR II SEMESTER [04]

Code	Subject	L	T/P/D	C
A40215	Principles of Electrical Engineering	4	-	4
A40412	Electronic Circuit Analysis	4	-	4
A40415	Pulse and Digital Circuits	4	-	4
A40009	Environmental Studies	4	—	4
A40411	Electromagnetic Theory and Transmission Lines	4	-	4
A40410	Digital Design using Verilog HDL	4	-	4
A40288	Electrical Technology Lab.	-	3	2
A40484	Electronic Circuits and Pulse Circuits Lab.	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50217	Control Systems Engineering	4	-	4
A50516	Computer Organization and Operating Systems	4	-	4
A50418	Antennas and Wave Propagation	4	-	4
A50422	Electronic Measurements and Instrumentation	4	-	4
A50408	Analog Communications	4	-	4
A50425	Linear and Digital IC Applications	4	-	4
A50482	Analog Communications Lab.	-	3	2
A50488	IC Applications and HDL Simulation Lab.	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A60010	Managerial Economics and Financial Analysis	4	-	4
A60018	Open Elective:	4	-	4
A60117	Human Values and Professional Ethics			
A60017	Disaster Management			
A60017	Intellectual Property Rights			
A60420	Digital Communications	4	-	4
A60432	VLSI Design	4	-	4
A60430	Microprocessors and Microcontrollers	4	-	4
A60421	Digital Signal Processing	4	-	4
A60494	Microprocessors and Microcontrollers Lab.	-	3	2
A60493	Digital Signal Processing Lab.	-	3	2
	Total	24	6	28


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IV YEAR I SEMESTER [04]

Code	Subject	L	T/P/D	C
A70014	Management Science	4	-	4
A70442	Microwave Engineering	4	-	4
A70515	Computer Networks	4	-	4
A70434	Cellular and Mobile Communications	4	-	4
A70436	Elective -I: Digital Image Processing	4	-	4
A70443	Multimedia and Signal Coding			
A70505	Object Oriented Programming through Java			
A70447	Elective -II: Television Engineering	4	-	4
A70444	Optical Communications			
A70440	Embedded Systems Design			
A70086	Advanced Communication Skills Lab,	-	3	2
A70499	Microwave Engineering and Digital Communications Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A80452	Elective -III: Satellite Communications	4	-	4
A81102	Biomédical Instrumentation			
A80527	Artificial Neural Networks			
A80431	Elective -IV: Telecommunication Switching Systems and Networks	4	-	4
A80450	Radar Systems			
A80449	Network Security			
A80454	Elective -V: Wireless Communications and Networks	4	-	4
A80437	Digital Signal Processors and Architectures			
A80451	RF Circuit Design			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Major Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
	Total	12	21	28



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CURRICULUM

B.Tech I Year COURSE STRUCTURE (2018-19)

Regulation -18

Common for EEE, CSE & IT [05]

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Total Credits	12	2	10	19

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18


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II YEAR I SEMESTER [05]

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS301ES	Analog and Digital Electronics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS305PC	Object Oriented Programming using C++	2	0	0	2
6	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS308PC	IT Workshop Lab	0	0	3	1.5
9	CS309PC	C++ Programming Lab	0	0	2	1
10	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	1	12	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS401PC	Discrete Mathematics	3	0	0	3
2	SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS405PC	Java Programming	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	2	8	21


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B.Tech COURSE STRUCTURE (2016-17)

R16 Regulation COMPUTER SCIENCE AND ENGINEERING

(Common forEEE, ECE, CSE, EIE, BME, IT, ETE, ECM, ICE) [05]

I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Engineering Chemistry	4	0	0	4
3	PH103BS	Engineering Physics-I	3	0	0	3
4	EN104HS	Professional Communication in English	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	EE106ES	Basis Electrical and Electronics Engineering	4	0	0	4
7	EN107HS	English Language Communication Skills Lab	0	0	3	2
8	ME108ES	Engineering Workshop	0	0	3	2
9	P5EA109MC	NSS	0	0	0	0
		Total Credits	20	1	6	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	PH201BS	Engineering Physics-II	3	0	0	3
2	MA202BS	Mathematics-II	4	1	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	CS204ES	Computer Programming in C	3	0	0	3
5	ME205ES	Engineering Graphics	2	0	4	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	PH207BS	Engineering Physics Lab	0	0	3	2
8	CS208ES	Computer Programming in C Lab	0	0	3	2
9	EA209MC	NCC/NSO	0	0	0	0
		Total Credits	16	2	13	24


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II YEAR I SEMESTER [05]

S. No	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Mathematics – IV	4	1	0	4
2	CS302ES	Data Structures through C++	4	0	0	4
3	CS303ES	Mathematical Foundations of Computer Science	4	0	0	4
4	CS304ES	Digital Logic Design	3	0	0	3
5	CS305ES	Object Oriented Programming through Java	3	0	0	3
6	CS306ES	Data Structures through C++ Lab	0	0	3	2
7	CS307ES	IT Workshop	0	0	3	2
8	CS308ES	Object Oriented Programming through Java Lab	0	0	3	2
9	* MC300ES	Environmental Science and Technology	3	0	0	0
		Total Credits	21	1	9	24

II YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CS401BS	Computer Organization	4	0	0	4
2	CS402ES	Database Management Systems	4	0	0	4
3	CS403ES	Operating Systems	4	0	0	4
4	CS404ES	Formal Languages and Automata Theory	3	0	0	3
5	SM405MS	Business Economics and Financial Analysis	3	0	0	3
6	CS406ES	Computer Organization Lab	0	0	3	2
7	CS407ES	Database Management Systems Lab	0	0	3	2
8	CS408ES	Operating Systems Lab	0	0	3	2
9	* MC400HS	Gender Sensitization Lab	0	0	3	0
		Total Credits	18	0	12	24


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III YEAR I SEMESTER [05]

S. No	Course Code	Course Title	L	T	P	Credits
1	CS501PC	Design and Analysis of Algorithms	4	0	0	4
2	CS502PC	Data Communication and Computer Networks	4	0	0	4
3	CS503PC	Software Engineering	4	0	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective –I CS511OE: Operating Systems CS512OE: Database Management Systems	3	0	0	3
6	CS505PC	Design and Analysis of Algorithms Lab	0	0	3	2
7	CS506PC	Computer Networks Lab	0	0	3	2
8	CS507PC	Software Engineering Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	0	9	24

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CS601PC	Compiler Design	4	0	0	4
2	CS602PC	Web Technologies	4	0	0	4
3	CS603PC	Cryptography and Network Security	4	0	0	4
4		Open Elective-II CS621OE: Java Programming CS622OE: Software Testing Methodologies CS623OE: Cyber Security	3	0	0	3
5		Professional Elective-I CS611PE Mobile Computing CS612PE Design Patterns CS613PE Artificial Intelligence CS614PE Information Security Management (Security Analyst - I) CS615PE Introduction to Analytics (Associate Analytics - I)	3	0	0	3
6	CS604PC	Cryptography and Network Security Lab	0	0	3	2
7	CS605PC	Web Technologies Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	0	9	24


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IV YEAR I SEMESTER [05]

S. No	Course Code	Course Title	L	T	P	Credits
1	CS701PC	Data Mining	4	0	0	4
2	CS702PC	Principles of Programming Languages	4	0	0	4
3		Professional Elective – II CS721PE Python Programming CS722PE Mobile Application Development CS723PE Web Scripting Languages CS724PE Internet of Things	3	0	0	3
4		Professional Elective – III CS731PE Graph Theory CS732PE Distributed Systems CS733PE Machine Learning CS734PE Software Process and Project Management	3	0	0	3
5		Professional Elective – IV CS741PE Computational Complexity CS742PE Cloud Computing CS743PE Block chain Technology CS744PE Social Network Analysis	3	0	0	3
6	CS703PC	Data Mining Lab	0	0	3	2
7	CS751PC CS752PC CS753PC CS754PC CS755PC	PE-II Lab # Python Programming Lab Android Application Development Lab Linux programming Lab R Programming Lab Internet of Things Lab	0	0	3	2
8	CS705PC	Industry Oriented Mini Project	0	0	3	2
9	CS706PC	Seminar	0	0	2	1
		Total Credits	17	0	11	24

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IV YEAR II SEMESTER [05]

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective – III CS831OE: Linux Programming CS832OE: R Programming CS833OE: PHP Programming	3	0	0	3
2		Professional Elective – V CS851PE Information Theory & Coding CS852PE Real-Time Systems CS853PE Data Analytics CS854PE Modern Software Engineering	3	0	0	3
3		Professional Elective – VI CS861PE Advanced Algorithms CS862PE Web Services and Service Oriented Architecture CS863PE Computer Forensics CS864PE Neural Networks and Deep Learning	3	0	0	3
4	CS801PC	Major Project	0	0	30	15
		Total Credits	9	0	30	24


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R15 REGULATION

B.Tech I Year COURSE STRUCTURE (2015-16)

COMPUTER SCIENCE AND ENGINEERING

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30008	Probability and Statistics	4	-	4
A30504	Mathematical Foundations of Computer Science	4	-	4
A30502	Data Structures	4	-	4
A30401	Digital Logic Design	4	-	4
A30404	Electronic Devices and Circuits	4	-	4
A30202	Basic Electrical Engineering	4	-	4
A30282	Electrical and Electronics Lab	-	3	2
A30582	Data Structures Lab	-	3	2
	Total	24	6	28



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II YEAR II SEMESTER [05]

Code	Subject	L	T/P/D	C
A40506	Computer Organization	4	-	4
A40507	Database Management Systems	4	-	4
A40503	Java Programming	4	-	4
A40009	Environmental studies	4	-	4
A40509	Formal Languages and Automata Theory	4	-	4
A40508	Design and Analysis of Algorithms	4	-	4
A40585	Java Programming Lab	-	3	2
A40584	Database Management Systems Lab	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50511	Principles of Programming Languages	4	-	4
	OPEN ELECTIVE	4	-	4
A50018	Human Values and Professional Ethics			
A50017	Intellectual Property Rights			
A50117	Disaster Management			
A50518	Software Engineering	4	-	4
A50514	Compiler Design	4	-	4
A50510	Operating Systems	4	-	4
A50515	Computer Networks	4	-	4
A50589	Operating Systems Lab	-	3	2
A50587	Compiler Design Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A60521	Distributed Systems	4	-	4
A60522	Information Security	4	-	4
A60524	Object Oriented Analysis and Design	4	-	4
A60525	Software Testing Methodologies	4	-	4
A60010	Managerial Economics and Financial Analysis	4	-	4
A60512	Web Technologies	4	-	4
A60591	Case Tools and Web Technologies Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28

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IV YEAR I SEMESTER [05]

Code	Subject	L	T/P/D	C
A70511	Linux Programming	4	-	4
A70530	Design Patterns	4	-	4
A70520	Data Warehousing and Data Mining	4	-	4
A70519	Cloud Computing	4	-	4
A70540	ELECTIVE – I Software Project Management	4	-	4
A70532	Image processing and Pattern Recognition			
A70536	Mobile Computing			
A70529	Computer Graphics			
A70352	Operations Research			
A70534	ELECTIVE – II Machine Learning	4	-	4
A70539	Soft Computing			
A70533	Information Retrieval Systems			
A70526	Artificial Intelligence			
A70628	Computer Forensics			
A70596	Linux Programming Lab	-	3	2
A70595	Data Warehousing and Mining Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A80014	Management Science	4	-	4
A80551	ELECTIVE III Web Services	4	-	4
A80538	Semantic Web and Social Networks			
A80537	Scripting Languages			
A80547	Multimedia & Rich Internet Applications			
A80542	ELECTIVE – IV Ad hoc and Sensor Networks	4	-	4
A80550	Storage Area Networks			
A80543	Database Security			
A80439	Embedded Systems			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
	Total	12	21	26


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CURRICULUM

B.Tech I Year COURSE STRUCTURE (2018-19)

Regulation -18

Common for Civil, ME, AE, ME (M), MME, Mining & Petroleum Engg.

I YEAR I SEMESTER [03]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
		Total Credits	12	3	8	19.0



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MECHANICAL ENGINEERING

II YEAR I SEMESTER[03]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Probability and Statistics & Complex Variables	3	1	0	4
2	ME302PC	Mechanics of Solids	3	1	0	4
3	ME303PC	Material Science and Metallurgy	3	0	0	3
4	ME304PC	Production Technology	3	0	0	3
5	ME305PC	Thermodynamics	3	1	0	4
6	ME306PC	Production Technology Lab	0	0	2	1
7	ME307PC	Machine Drawing Practice	0	0	2	1
8	ME308PC	Material Science and Mechanics of Solids Lab	0	0	2	1
9	*MC309	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	EE401ES	Basic Electrical and Electronics Engineering	3	0	0	3
2	ME402PC	Kinematics of Machinery	3	1	0	4
3	ME403PC	Thermal Engineering - I	3	1	0	4
4	ME404PC	Fluid Mechanics and Hydraulic Machines	3	1	0	4
5	ME405PC	Instrumentation and Control Systems	3	0	0	3
6	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1
7	ME407PC	Fluid Mechanics and Hydraulic Machines Lab	0	0	2	1
8	ME408PC	Instrumentation and Control Systems Lab	0	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21


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B.Tech Course Structure (2016-17) –R16 Regulation

(Common for Civil, ME, AE, ME (M), MME, AU, Mining, Petroleum, CEE, ME (Nanotech))

I YEAR I SEMESTER[03]

S. No	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Mathematics-I	3	1	0	3
2	MA102BS	Mathematics-II	4	1	0	4
3	PH103BS	Engineering Physics	3	0	0	3
4	CS104ES	Computer Programming in C	3	0	0	3
5	ME105ES	Engineering Mechanics	3	0	0	3
6	ME106ES	Engineering Graphics	2	0	4	4
7	PH107BS	Engineering Physics Lab	0	0	3	2
8	CS108ES	Computer Programming in C Lab	0	0	3	2
9	*EA109MC	NSS	0	0	0	0
		Total Credits	18	2	10	24

I YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	AP201BS	Applied Physics	3	0	0	3
2	CH202BS	Engineering Chemistry	4	0	0	4
3	MA203BS	Mathematics-III	4	1	0	4
4	EN204HS	Professional Communication in English	3	0	0	3
5	EE205ES	Basic Electrical & Electronics Engineering	4	0	0	4
6	CH206BS	Engineering Chemistry Lab	0	0	3	2
7	EN207HS	English Language Communication Skills Lab	0	0	3	2
8	ME208ES	Engineering Workshop	0	0	3	2
9	*EA209MC	NCC/NSO	0	0	0	0
		Total Credits	18	1	9	24


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II YEAR I SEMESTER [03]

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA301BS	Mathematics - IV	4	1	0	4
2	ME304ES	Thermodynamics	4	1	0	4
3	ME302ES	Kinematics of Machinery	4	1	0	4
4	ME305ES	Metallurgy and Material Science	3	0	0	3
5	ME303ES	Mechanics of Solids	3	1	0	3
6	ME306ES	Fuels and Lubricants Lab	0	0	3	2
7	ME307ES	Mechanics of Solids Lab	0	0	3	2
8	ME308ES	Metallurgy and Material Science Lab	0	0	3	2
9	*MC300HS	Gender Sensitization Lab	0	0	3	0
		Total Credits	18	4	12	24

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME403ES	Dynamics of Machinery	4	1	0	4
2	ME401ES	Fluid Mechanics and Hydraulic Machines	4	1	0	4
3	ME404ES	Machine Drawing	2	0	4	4
4	ME405ES	Manufacturing Process	3	0	0	3
5	SM405MS	Business Economic and Financial Analysis	3	0	0	3
6	ME406ES	Kinematics and Dynamics Lab	0	0	3	2
7	ME407ES	Fluid Mechanics and Hydraulic Machines Lab	0	0	3	2
8	ME408ES	Manufacturing Process Lab	0	0	3	2
9	*MC400ES	Environmental Science and Technology	3	0	0	0
		Total Credits	18	2	15	24



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III YEAR I SEMESTER [03]

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME501PC	Design of Machine Members - I	4	1	0	4
2	ME502PC	Thermal Engineering-I	4	1	0	4
3	ME503PC	Metrology and Machine Tools	4	1	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective – I ME511OE: Optimization Techniques ME512OE: Computer Graphics ME513OE: Introduction to Mechatronics ME514OE: Fundamentals of Mechanical Engineering CS511OE: Operating Systems CS512OE: Database Management Systems	3	0	0	3
6	ME505PC	Thermal Engineering Lab	0	0	3	2
7	ME506PC	Machine Tools Lab	0	0	3	2
8	ME507PC	Engineering Metrology Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	3	9	24

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME601PC	Thermal Engineering –II	4	1	0	4
2	ME602PC	Design of Machine Members-II	4	1	0	4
3	ME603PC	Heat Transfer	4	1	0	4
4		Open Elective - II ME621OE: World Class Manufacturing ME622OE: Fundamentals of Robotics ME623OE: Fabrication Processes CS621OE: Java Programming CS622OE: Software Testing Methodologies CS623OE: Cyber Security	3	0	0	3
5		Professional Elective - I ME611PE Finite Element Methods ME612PE Refrigeration and Air Conditioning ME613PE Machine Tool Design ME614PE IC Engines and Gas Turbines	3	0	0	3
6	ME604PC	Heat Transfer Lab	0	0	3	2
7	ME605PC	CADD and MATLAB	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	3	9	24

IV YEAR I SEMESTER [03]

S. No.	Course Code	Course Title	L	T	P	C
1	ME701PC	CAD/CAM	4	0	0	4
2	ME702PC	Instrumentation and Control System	4	0	0	4
3		Professional Elective - II ME721PE Composite materials ME722PE Industrial Management ME723PE Power Plant Engineering ME724PE Operations Research	3	0	0	3
4		Professional Elective - III ME731PE Engineering Tribology ME732PE Computational Fluid Dynamics ME733PE Robotics ME734PE CNC Technology	3	0	0	3
5		Professional Elective - IV ME741PE Mechanical Vibrations ME742PE Turbo Machines ME743PE MEMS ME744PE Additive Manufacturing Technology	3	0	0	3
6	ME703PC	CAD/CAM Lab	0	0	3	2
7	ME704PC	Instrumentation and Control Systems Lab	0	0	3	2
8	ME705PC	Industry Oriented Mini Project	0	0	3	2
9	ME706PC	Seminar	0	0	2	1
		Total Credits	17	0	11	24

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	C
1	-	Open Elective – III ME831OE: Total Quality Management ME832OE: Industrial Safety, Health, and Environmental Engineering ME833OE: Basics of Thermodynamics ME834OE: Reliability Engineering	3	0	0	3
2		Professional Elective - V ME851PE Automation in Manufacturing ME852PE Fluid Power System ME853PE Renewable Energy Sources ME854PE Production Planning and Control	3	0	0	3
3		Professional Elective - VI ME861PE Automobile Engineering ME862PE Advanced Mechanics of Solids ME863PE Unconventional Machining Processes ME864PE Advanced Materials Technology	3	0	0	3
4	ME801PC	Major Project	0	0	30	15
		Total Credits				



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R15 REGULATION

B.Tech I Year COURSE STRUCTURE (2015-16)

MECHANICAL ENGINEERING [03]

I YEAR

Code	Subject	L	T/P/D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10302	Engineering Mechanics	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics & Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A30009	Environmental Studies	4	-	4
A30008	Probability and Statistics	4	-	4
A30203	Electrical and Electronics Engineering	4	-	4
A30104	Mechanics of Solids	4	-	4
A30306	Thermodynamics	4	-	4
A31803	Metallurgy and Materials Science	4	-	4
A30281	Electrical and Electronics Engineering Lab	-	3	2
A30085	Metallurgy & Mechanics of Solids Lab	-	3	2
	Total	24	6	28



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II YEAR II SEMESTER [03]

Code	Subject	L	T/P/D	C
A40312	Production Technology	4	-	4
A40309	Kinematics of Machinery	4	-	4
A40313	Thermal Engineering -I	4	-	4
A40112	Mechanics of Fluids and Hydraulic Machines	4	-	4
A40310	Machine Drawing	-	6	4
A40006	Mathematics-II	4	-	4
A40382	Production Technology Lab	-	3	2
A40188	Mechanics of Fluids & Hydraulic Machines Lab	-	3	2
	Total	20	12	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50010	Managerial Economics and Financial Analysis	4	-	4
A50318	Engineering Metrology	4	-	4
A50317	Dynamics of Machinery	4	-	4
A50321	Machine Tools	4	-	4
A50316	Design of Machine Members – I	4	-	4
A50326	Thermal Engineering -II	4	-	4
A50384	Machine Tools & Metrology Lab	-	3	2
A50383	Thermal Engineering Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A62405	Automobile Engineering	4	-	4
A60330	Finite Element Methods	4	-	4
A60334	Refrigeration and Air Conditioning	4	-	4
A60329	Design of Machine Members – II	4	-	4
A60331	Heat Transfer	4	-	4
A60117 A60017 A60018	Open Elective Disaster Management Intellectual Property Rights Human Values and Professional Ethics	4	-	4
A60387	Heat Transfer Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28


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IV YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A70352	Operations Research	4	-	4
A70353	Power Plant Engineering	4	-	4
A70328	CAD/CAM	4	-	4
A70343	Instrumentation and Control Systems	4	-	4
A70355	ELECTIVE – I Robotics	4	-	4
A70346	Mechanical Vibrations			
A70348	Mechatronics			
A70347	Mechanics of Composite Materials			
A70332	Industrial Management			
A70359	ELECTIVE – II Unconventional Machining Processes	4	-	4
A70337	CNC Technology			
A70336	Automation in Manufacturing			
A70339	Design for Manufacturing			
A72909	Nanotechnology			
A70390	Computer Aided Design & Manufacturing Lab	-	3	2
A70391	Production Drawing Practice and Instrumentation Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A80366	Production Planning and Control	4	-	4
A80527	ELECTIVE – III Artificial Neural Networks	4	-	4
A80367	Total Quality Management			
A80363	Maintenance and Safety Engineering			
A80365	Plant Layout & Material Handling			
A80324	ELECTIVE – IV Renewable Energy Sources	4	-	4
A80362	Jet Propulsion & Rocket Engineering			
A80338	Computational Fluid Dynamics			
A80361	Gas Dynamics			
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
	Total	12	21	28


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R17-Regulation
M.Tech in CAD/CAM

I Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-1	Advanced CAD	25	75	4	0	0	4
PC-2	Computer Aided Manufacturing	25	75	4	0	0	4
PC-3	Advanced FEM	25	75	4	0	0	4
PE-1	1. Mechanical Behaviour of Materials 2. Stress Analysis and Vibration 3. Additive Manufacturing Technologies	25	75	3	0	0	3
PE-2	Automation in Manufacturing Computer Aided Process Planning Performance Modelling and Analysis of Manufacturing Systems	25	75	3	0	0	3
OE-1	*Open Elective - I	25	75	3	0	0	3
Laboratory I	Advanced CAD/CAM Laboratory	25	75	0	0	3	2
Seminar I	Seminar-I	100	0	0	0	3	2
	Total	275	525	21	0	6	25

II Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-4	Design for Manufacturing And Assembly	25	75	4	0	0	4
PC-5	Flexible Manufacturing Systems	25	75	4	0	0	4
PC-6	Industrial Robotics	25	75	4	0	0	4
PE-3	Intelligent Manufacturing Systems Special Manufacturing Process Optimization Techniques and Applications	25	75	3	0	0	3
PE4	Advanced Mechatronics MEMS and Micro Systems : Design and Manufacture Fuzzy Logic and Neural Networks	25	75	3	0	0	3
OE-2	*Open Elective - II	25	75	3	0	0	3
Laboratory II	Manufacturing simulation & Precision Engineering lab	25	75	0	0	3	2
Seminar II	Seminar-II	100	0	0	0	3	2
	Total	275	525	21	0	6	25



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III Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Technical Paper Writing	100	0	0	3	0	2
Comprehensive Viva-Voce	0	100	0	0	0	4
Project work Review II	100	0	0	0	22	8
Total	200	100	0	3	22	14

IV Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Project work Review III	100	0	0	0	24	8
Project Evaluation (Viva-Voce)	0	100	0	0	0	16
Total	100	100	0	0	24	24


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R15 Regulation
M.Tech in CAD/CAM
I Year – I Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	Advanced CAD	25	75	4	--	4
Core Course II	Computer Aided Manufacturing	25	75	4	--	4
Core Course III	Advanced FEM	25	75	4	--	4
Core Elective I	Mechanical Behaviour of Materials Stress Analysis and Vibration Rapid Prototyping Technologies	25	75	4	--	4
Core Elective II	Automation in Manufacturing Computer Aided Process Planning Performance Modeling and Analysis of Manufacturing Systems	25	75	4	--	4
Open Elective I	Numerical Methods for Partial Differential Equations Production and Operations Management	25	75	4	--	4
Laboratory I	Laboratory	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				24	8	28

I Year – II Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Design for Manufacturing And Assembly	25	75	4	--	4
Core Course V	Flexible Manufacturing Systems	25	75	4	--	4
Core Course VI	Industrial Robotics	25	75	4	--	4
Core Elective III	Intelligent Manufacturing Systems Special Manufacturing Process Design Optimization	25	75	4	--	4
Core Elective IV	Advanced Mechatronics Design and Manufacturing of MEMS and Micro Systems Fuzzy Logic and Neural Networks	25	75	4	--	4
Open Elective II	Engineering Research and Methodology Quality Engineering in Manufacturing	25	75	4	--	4
Laboratory II	Manufacturing Simulation & Precision Engineering Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				24	8	


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II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	16

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	24	16


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R13-Regulation**M.Tech in CAD/CAM****I YEAR I SEM**

Group	Subject	L	P	Credits
	Advanced CAD	3	-	3
	Advanced Finite Element Analysis	3	-	3
	Precision Engineering	3	-	3
	Design for Manufacturing and Assembly	3	-	3
Elective-I	Numerical Methods for Partial Differential Equations Advanced Mechanics of Solids Advanced Mechatronics	3	-	3
Elective-II	Advanced Mechanics of Composite Materials Total Quality Management Stress Analysis and Vibrations	3	-	3
	Computer Aided Design Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

I YEAR II SEM

Group	Subject	L	P	Credits
	Design of Hydraulics and Pneumatics Systems	3	-	3
	Flexible Manufacturing Systems	3	-	3
	Computer Aided Manufacturing	3	-	3
	Industrial Robotics	3	-	3
Elective –III	Production and Operations Management Computational Fluid Dynamics Automation in Manufacturing	3	-	3
Elective -IV	Design Optimization Intelligent Manufacturing Systems Computer Aided Process Planning	3	-	3
Lab	Computer Aided Machining and Robotics Lab Seminar	-	3	2
		-	-	2
	Total Credits	18	3	22

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II YEAR I SEM

Group	Subject	L	P	Credits
	Comprehensive Viva	-	-	2
	Project Seminar	-	3	2
	Project work	-	-	18
	Total Credits	-	3	22

II YEAR II SEM

Group	Subject	L	P	Credits
	Project work and Seminar	-	-	22
	Total Credits	-	-	22


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M. Tech. COMPUTER SCIENCE AND ENGINEERING/COMPUTER SCIENCE

ACADEMIC YEAR 2019 - 20

I YEAR I – Semester

Course Code	Course Title	L	T	P	Credits
Professional Core - I	Mathematical Foundations of Computer Science	3	0	0	3
Professional Core - II	Advanced Data Structures	3	0	0	3
Professional Elective - I	1. Information Security 2. Mobile Application Development 3. Machine Learning	3	0	0	3
Professional Elective - II	4. Network Security 5. Cloud Computing 6. Data Mining	3	0	0	3
Lab - I	Advanced Data Structures Lab	0	0	4	2
Lab - II	Machine Learning Lab	0	0	4	2
MC	Research Methodology & IPR	2	0	0	2
Audit	Audit Course - I	2	0	0	0
	Total	16	0	8	18

I YEAR II – Semester

Course Code	Course Title	L	T	P	Credits
Professional Core - III	Advanced Algorithms	3	0	0	3
Professional Core - IV	Advanced Computer Architecture	3	0	0	3
Professional Elective - III	Web and Database Security Internet of Things Data Science	3	0	0	3
Professional Elective - IV	Cyber Security Advanced Computer Networks Big Data Analytics	3	0	0	3
Lab - III	Advanced Algorithms Lab	0	0	4	2
Lab - IV	Data Science Lab	0	0	4	2
--	Mini Project with Seminar	0	0	4	2
Audit	Audit Course - II	2	0	0	0
	Total	14	0	12	18


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R17 REGULATION

M. Tech in COMPUTER SCIENCE AND ENGINEERING Common to (CS, CSE)

I Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-1	Advanced Algorithms	25	75	4	0	0	4
PC-2	Computer Networking	25	75	4	0	0	4
PC-3	Software Engineering	25	75	4	0	0	4
PE-1	Network Security and Cryptography Mobile Application Development Graph Theory Internet of Things	25	75	3	0	0	3
PE-2	Game Theory Parallel and Distributed Algorithms Software Architecture and Design Patterns Embedded Systems	25	75	3	0	0	3
OE-1	*Open Elective – 1	25	75	3	0	0	3
Laboratory	Advanced Algorithms Lab	25	75	0	0	3	2
Seminar I	Seminar-I	100	0	0	0	3	2
Total		275	525	21	0	6	25

II Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-4	Network Programming	25	75	4	0	0	4
PC-5	Distributed Systems and Cloud Computing	25	75	4	0	0	4
PC-6	Theory of Computation	25	75	4	0	0	4
PE-3	1. Data Warehousing and Data Mining 2. Storage Area Networks 3. Semantic Web and Social Networks 4. Cyber Security	25	75	3	0	0	3
PE4	1. Big Data Analytics 2. Soft Computing 3. Software Process and Project Management Machine Learning	25	75	3	0	0	3
OE-2	*Open Elective – 2	25	75	3	0	0	3
Laboratory	Internet Technologies and Services Lab	25	75	0	0	3	2
Seminar II	Seminar -II	100	0	0	0	3	2
Total		275	525	21	0	6	25

III Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Technical Paper Writing	100	0	0	3	0	2
Comprehensive Viva-Voce	0	100	0	0	0	4
Project work Review II	100	0	0	0	22	8
Total	200	100	0	3	22	14

IV Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Project work Review III	100	0	0	0	24	8
Project Evaluation (Viva-Voce)	0	100	0	0	0	16
Total	100	100	0	0	24	24



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R15 Regulation M.TECH. (COMPUTER SCIENCE AND ENGINEERING)**I Year – II Semester**

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Network Programming	25	75	4	--	4
Core Course V	Information Retrieval Systems	25	75	4	--	4
Core Course VI	Internet Technologies and Services	25	75	4	--	4
Core Elective III	Core Elective– 3 1. Data Mining 2. Storage Area Networks 3. Semantic Web and Social Networks 4. Cyber Security	25	75	4	--	4
Core Elective IV	Core Elective– 4 1. Big Data Analytics 2. Soft Computing 3. Software Process and Project Management 4. Distributed Computing	25	75	4	--	4
Open Elective II	Open Elective – 2	25	75	4	--	4
Laboratory II	Internet Technologies and Services Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits			24	8	28	


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R13-Regulation
M.TECH. (COMPUTER SCIENCE AND ENGINEERING)
I Year I Semester

Group	Subject	L	P	Credits
	Advanced Data Structures and Algorithms	3	-	3
	Computer System Design	3	-	3
	Advanced Operating Systems	3	-	3
	Distributed Systems	3	-	3
Elective -I	Software Process and Project Management Natural Language Processing Pattern Recognition	3	-	3
Elective -II	Machine Learning Parallel and Distributed Algorithms Software Architecture and Design Patterns	3	-	3
Lab	Advanced Data Structures and Algorithms Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

I YEAR II SEM

Group	Subject	L	P	Credits
	Advanced Network Programming	3	-	3
	Advanced Databases	3	-	3
	Web Services and Service Oriented Architecture	3	-	3
	Grid and Cloud Computing	3	-	3
Elective -III	Advanced Data Mining Storage Area Networks Database Security	3	-	3
Elective -IV	Semantic Web and Social Networks Wireless Networks and Mobile Computing Information Retrieval Systems	3	-	3
Lab	Web Services Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22


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II YEAR I SEM

Group	Subject	L	P	Credits
	Comprehensive Viva	-	-	2
	Project Seminar	0	3	2
	Project work	-	-	18
	Total Credits	-	3	22

II YEAR II SEM

Group	Subject	L	P	Credits
	Project work and Seminar	-	-	22
	Total Credits	-	-	22


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R17-M. TECH.**(Electrical Power Systems/ Power System Control and Automation/ Electrical Power Engineering)****I Semester**

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-1	Advanced Power System Analysis	25	75	4	0	0	4
PC-2	Advanced Power System Protection	25	75	4	0	0	4
PC-3	Modern Control Theory	25	75	4	0	0	4
PE-1	1. EHV AC Transmission 2. High Voltage Engineering 3. Advanced Digital Signal Processing	25	75	3	0	0	3
PE-2	1. Power Quality 2. Microcontrollers and applications 3. Distribution Automation	25	75	3	0	0	3
OE-1	*Open Elective – I	25	75	3	0	0	3
Laboratory I	Power & Energy Systems Lab - I	25	75	0	0	3	2
Seminar I	Seminar – I	100	0	0	0	3	2
Total		275	525	21	0	6	25

II Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-4	Power System Dynamics and Control	25	75	4	0	0	4
PC-5	Flexible AC Transmission Systems (FACTS)	25	75	4	0	0	4
PC-6	Power System Operation and Deregulation	25	75	4	0	0	4
PE-3	1. Gas Insulated Systems (GIS) 2. Programmable Logic Controllers and applications 3. Energy Auditing Conservation and Management	25	75	3	0	0	3
PE4	1. Reactive Power Compensation and Management 2. Power System Reliability 3. Voltage Stability	25	75	3	0	0	3
OE-2	*Open Elective – II	25	75	3	0	0	3
Laboratory II	Power and Energy Systems Lab - II	25	75	0	0	3	2
Seminar II	Seminar –II	100	0	0	0	3	2
Total		275	525	21	0	6	25



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III Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Technical Paper Writing	100	0	0	3	0	2
Comprehensive Viva-Voce	0	100	0	0	0	4
Project work Review II	100	0	0	0	22	8
Total	200	100	0	3	22	14

IV Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Project work Review III	100	0	0	0	24	8
Project Evaluation (Viva-Voce)	0	100	0	0	0	16
Total	100	100	0	0	24	24



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R15 Regulation

I Year – I Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C	
Core Course I	Advanced Power System Analysis	25	75	4	--	4	
Core Course II	Advanced Power System Protection	25	75	4	--	4	
Core Course III	Modern Control Theory	25	75	4	--	4	
Core Elective I	1. EHV AC Transmission 2. High Voltage Engineering 3. Advanced Digital Signal Processing	25	75	4	--	4	
Core Elective II	1. Power Quality 2. Microcontrollers and applications 3. Distribution Automation	25	75	4	--	4	
Open Elective I	1. Optimization Techniques 2. Digital control systems 3. Renewable energy systems 4. HVDC Transmission 5. Analysis of power converters 6. Embedded Systems	25	75	4	--	4	
Laboratory I	Power Systems Lab-I	25	75	--	4	2	
Seminar I	Seminar-I	50	--	--	4	2	
Total Credits					24	8	28

I Year – II Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C	
Core Course IV	Power System Dynamics	25	75	4	--	4	
Core Course V	Flexible AC Transmission Systems (FACTS)	25	75	4	--	4	
Core Course VI	Power System Operation and Deregulation	25	75	4	--	4	
Core Elective III	Gas Insulated Systems(GIS) Programmable Logic Controllers and their applications High frequency magnetic components	25	75	4	--	4	
Core Elective IV	Reactive Power Compensation and Management Power System Reliability Voltage Stability	25	75	4	--	4	
Open Elective II	1. Instrumentation & Control 2. Intelligent Control 3. Smart grid technologies 4. AI Techniques in Electrical Engineering 5. Reliability Engineering 6. Energy Auditing, Conservation & Management	25	75	4	--	4	
Laboratory II	Power Systems Lab-II	25	75	--	4	2	
Seminar II	Seminar-II	50	--	--	4	2	
Total Credits					24	8	28

R13-Regulation**I Year I Semester**

Group	Subject	L	P	Credits
	Advanced Power System Analysis	3	-	3
	Advanced Power System Protection	3	-	3
	Renewable Energy Systems	3	-	3
	Modern Control Theory	3	-	3
Elective -I	High Voltage Engineering EHV AC Transmission Microcontrollers and Applications	3	-	3
Elective -II	Power Quality HVDC Transmission Distribution Automation	3	-	3
Lab	Power Systems Lab-I	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

I YEAR II SEM

Group	Subject	L	P	Credits
	Power System Dynamics	3	-	3
	Flexible AC Transmission Systems (FACTS)	3	-	3
	Power System Operation and Deregulation	3	-	3
	AI Techniques in Electrical Power Engineering	3	-	3
Elective -III	Gas Insulated Systems (GIS) Electric Smart Grid Energy Auditing, Conservation and Management	3	-	3
Elective -IV	Reactive Power Compensation and Management Power System Reliability Voltage Stability	3	-	3
Lab	Power Systems Lab-II	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22



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R17-Regulation**M. TECH IN EMBEDDED SYSTEMS****I Semester**

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-1	Embedded System Design	25	75	4	0	0	4
PC-2	ARM Processor Architectures	25	75	4	0	0	4
PC-3	Real Time Operating Systems	25	75	4	0	0	4
PE-1	Advanced Computer Architecture CMOS VLSI Design CPLD and FPGA Architectures and Applications	25	75	3	0	0	3
PE-2	Digital System Design Embedded C TCP / IP Internetworking	25	75	3	0	0	3
OE-1	*Open Elective – I	25	75	3	0	0	3
Laboratory I	Embedded Systems Laboratory	25	75	0	0	3	2
Seminar I	Seminar - I	100	0	0	0	3	2
Total		275	525	21	0	6	25

II Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-4	Embedded Computing	25	75	4	0	0	4
PC-5	System on Chip Architecture	25	75	4	0	0	4
PC-6	Sensors and Actuators	25	75	4	0	0	4
PE-3	Design for Testability Wireless Communications and Networks Scripting Languages	25	75	3	0	0	3
PE4	Advanced Digital Signal Processing Network Security and Cryptography Hardware Software Co-Design	25	75	3	0	0	3
OE-2	*Open Elective – II	25	75	3	0	0	3
Laboratory II	Advanced Embedded Systems Laboratory	25	75	0	0	3	2
Seminar II	Seminar - II	100	0	0	0	3	2
Total		275	525	21	0	6	25



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III Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Technical Paper Writing	100	0	0	3	0	2
Comprehensive Viva-Voce	0	100	0	0	0	4
Project work Review II	100	0	0	0	22	8
Total	200	100	0	3	22	14

IV Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Project work Review III	100	0	0	0	24	8
Project Evaluation (Viva-Voce)	0	100	0	0	0	16
Total	100	100	0	0	24	24


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R15 Regulation - M.TECH. (EMBEDDED SYSTEMS)

I Year – II Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Digital Signal Processors and Architectures	25	75	4	--	4
Core Course V	Embedded Networking	25	75	4	--	4
Core Course VI	Sensors and Actuators	25	75	4	--	4
Core Elective III	CPLD and FPGA Architectures and Applications Wireless Communication and Networks System On Chip Architecture	25	75	4	--	4
Core Elective IV	Multimedia and Signal Coding Network Security and Cryptography Hardware Software Co-Design	25	75	4	--	4
Open Elective II	Scripting languages Adhoc Wireless and Sensor Networks Device Modelling	25	75	4	--	4
Laboratory II	Advanced Embedded Systems Laboratory	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				24	8	28


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R13-regulation**M.TECH - EMBEDDED SYSTEMS****I Year I Semester**

Group	Subject	L	P	Credits
	Embedded System Design	3	-	3
	Microcontrollers for Embedded System Design	3	-	3
	Embedded Real Time Operating Systems	3	-	3
	Embedded C	3	-	3
Elective -I	Advanced Computer Architecture VLSI Technology and Design Embedded Computing	3	-	3
Elective -II	Digital System Design Soft Computing Techniques Advanced Operating Systems	3	-	3
Lab	Embedded C Laboratory	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

I YEAR II SEM

Group	Subject	L	P	Credits
	Hardware Software Co-Design	3	-	3
	Digital Signal Processors and Architectures	3	-	3
	Embedded Networking	3	-	3
	CPLD and FPGA Architectures and Applications	3	-	3
Elective - III	Sensors and Actuators Wireless Communications and Networks Network Security and Cryptography	3	-	3
Elective – IV	Multimedia and Signal Coding System On Chip Architecture Wireless LANs and PANs	3	-	3
Lab	Embedded Systems Laboratory	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

II YR I SEM

Group	Subject	L	P	Credits
	Project work and Seminar	-	-	22
	Total Credits			22

M. Tech COURSE STRUCTURE AND SYLLABUS

R17-Regulation

SOFTWARE ENGINEERING

I Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-1	Advanced Algorithms	25	75	4	0	0	4
PC-2	Software Development Methodologies	25	75	4	0	0	4
PC-3	Software Requirements and Estimation	25	75	4	0	0	4
PE-1	Cloud Computing Database Internals Cryptography and Network Security Internet Technologies and Services	25	75	3	0	0	3
PE-2	Big Data Analytics Web Mining Machine Learning Software Metrics and Quality Assurance	25	75	3	0	0	3
OE-1	*Open Elective – 1	25	75	3	0	0	3
Laboratory I	Software Development Methodologies Lab	25	75	0	0	3	2
Seminar I	Seminar-I	100	0	0	0	3	2
Total		275	525	21	0	6	25

II Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-4	Software Architecture and Design Patterns	25	75	4	0	0	4
PC-5	Software Process and Project Management	25	75	4	0	0	4
PC-6	Software Quality Assurance and Testing	25	75	4	0	0	4
PE-3	Scripting Languages Information Retrieval Systems Semantic Web and Social Networks E-Commerce	25	75	3	0	0	3
PE-4	Software Security Engineering Cyber Security Information Security and Audit Systems Engineering	25	75	3	0	0	3
OE-2	*Open Elective – 2	25	75	3	0	0	3
Laboratory	Software Testing Lab	25	75	0	0	3	2
Seminar II	Seminar -II	100	0	0	0	3	2
Total		275	525	21	0	6	25



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III Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Technical Paper Writing	100	0	0	3	0	2
Comprehensive Viva-Voce	0	100	0	0	0	4
Project work Review II	100	0	0	0	22	8
Total	200	100	0	3	22	14

IV Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Project work Review III	100	0	0	0	24	8
Project Evaluation (Viva-Voce)	0	100	0	0	0	16
Total	100	100	0	0	24	24


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M. Tech COURSE STRUCTURE AND SYLLABUS

R15 Regulation

SOFTWARE ENGINEERING

I Year – II Semester

	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Software Architecture and Design Patterns	25	75	4	--	4
Core Course V	Software Process and Project Management	25	75	4	--	4
Core Course VI	Software Quality Assurance and Testing	25	75	4	--	4
Core Elective III	1. Scripting Languages 2. Information Retrieval Systems 3. Semantic Web and Social Networks 4. E-Commerce	25	75	4	--	4
Core Elective IV	1. Software Security Engineering 2. Cyber Security 3. Information Security And Audit 4. Business Process Management	25	75	4	--	4
Open Elective II	Open Elective – 2 COMPUTER FORENSICS	25	75	4	--	4
Laboratory II	Software Testing Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits		275	575	24	8	28


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M.TECH R13 REGULATION
M.TECH - SOFTWARE ENGINEERING
I YEAR I SEM

Group	Subject	L	P	Credits
	Advanced Data Structures and Algorithms	3	-	3
	Web Technologies and Services	3	-	3
	Software Requirements and Estimation	3	-	3
	Software Development Methodologies	3	-	3
Elective -I	Secure Software Engineering Cyber Security and Cyber Laws Information Security and Audit	3	-	3
Elective -II	Parallel Algorithms Advanced Data Mining Object Oriented Modeling	3	-	3
Lab	Web Technologies and Services Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

I YEAR II SEM

Group	Subject	L	P	Credits
	Software Architecture and Design Patterns	3	-	3
	Software Process and Project Management	3	-	3
	Software Quality Assurance and Testing	3	-	3
	Component Based Software Engineering	3	-	3
Elective -III	Scripting Languages Information Retrieval Systems Semantic Web and Social Networks	3	-	3
Elective -IV	Cloud Computing Advanced Databases Business Process Management	3	-	3
Lab	Software Testing Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

II Year – I Semester

Group	Subject	L	P	Credits
	Comprehensive Viva	-	-	2
	Project Seminar	0	3	2
	Project work	-	-	18
	Total Credits	-	3	22

II YEAR II SEM

Group	Subject	L	P	Credits
	Project work and Seminar	-	-	22
	Total Credits	-	-	22

R17-Regulation**M. TECH IN DIGITAL SYSTEMS & COMPUTER ELECTRONICS****I Semester**

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-1	Advanced Digital System Design	25	75	4	0	0	4
PC-2	CMOS VLSI Design	25	75	4	0	0	4
PC-3	Real Time Operating Systems	25	75	4	0	0	4
PE-1	Advanced Data Communications Image and Video Processing Digital Signal Processors and Architectures	25	75	3	0	0	3
PE-2	CPLD and FPGA Architectures and Applications TCP/IP Internetworking Wireless Communications and Networks	25	75	3	0	0	3
OE-1	*Open Elective – I	25	75	3	0	0	3
Laboratory I	Digital System Design Lab	25	75	0	0	3	2
Seminar I	Seminar	100	0	0	0	3	2
	Total	275	525	21	0	6	25

II Semester

Category	Course Title	Int. marks	Ext. marks	L	T	P	C
PC-4	Advanced Computer Architecture	25	75	4	0	0	4
PC-5	Design of Fault Tolerant Systems	25	75	4	0	0	4
PC-6	Embedded System Design	25	75	4	0	0	4
PE-3	Virtual Instrumentation Network Security and Cryptography Scripting Languages	25	75	3	0	0	3
PE4	Verilog Hardware Description Language Adhoc Wireless Networks System On Chip Architectures	25	75	3	0	0	3
OE-2	*Open Elective – II	25	75	3	0	0	3
Laboratory II	Embedded System Design Lab	25	75	0	0	3	2
Seminar II	Seminar	100	0	0	0	3	2
	Total	275	525	21	0	6	25



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III Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Technical Paper Writing	100	0	0	3	0	2
Comprehensive Viva-Voce	0	100	0	0	0	4
Project work Review II	100	0	0	0	22	8
Total	200	100	0	3	22	14

IV Semester

Course Title	Int. marks	Ext. marks	L	T	P	C
Project work Review III	100	0	0	0	24	8
Project Evaluation (Viva-Voce)	0	100	0	0	0	16
Total	100	100	0	0	24	24


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R15 Regulation - M.TECH. (DIGITAL SYSTEMS & COMPUTER ELECTRONICS)**I Year – I Semester**

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course I	VLSI Technology and Design	25	75	4	--	4
Core Course II	Digital System Design	25	75	4	--	4
Core Course III	Advanced Data Communications	25	75	4	--	4
Core Elective I	Hardware Software Co-design Image and Video Processing Embedded System Design	25	75	4	--	4
Core Elective II	CMOS Digital Integrated Circuit Design Internetworking Design of Fault Tolerant Systems	25	75	4	--	4
Open Elective I	Coding Theory and Techniques Soft Computing Techniques Nano Electronics	25	75	4	--	4
Laboratory I	Modeling and Simulation Lab	25	75	--	4	2
Seminar I	Seminar	50	--	--	4	2
Total Credits				24	8	28

I Year – II Semester

Category	Course Title	Int. marks	Ext. marks	L	P	C
Core Course IV	Advanced Computer Architecture	25	75	4	--	4
Core Course V	Digital Signal Processors and Architectures	25	75	4	--	4
Core Course VI	Real Time Operating Systems	25	75	4	--	4
Core Elective III	CPLD and FPGA Architectures and Applications Network Security and Cryptography System on Chip Architecture	25	75	4	--	4
Core Elective IV	Low Power VLSI Design Design for Testability Device Modeling	25	75	4	--	4
Open Elective II	Software Defined Radio Adhoc Wireless Networks Scripting Languages	25	75	4	--	4
Laboratory II	Embedded Systems Lab	25	75	--	4	2
Seminar II	Seminar	50	--	--	4	2
Total Credits				24	8	2



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II Year - I Semester

Course Title	Int. marks	Ext. marks	L	P	C
Comprehensive Viva-Voce	--	100	--	--	4
Project work Review I	50	--	--	24	12
Total Credits			--	24	16

II Year - II Semester

Course Title	Int. marks	Ext. marks	L	P	C
Project work Review II	50	--	--	8	4
Project Evaluation (Viva-Voce)	--	150	--	16	12
Total Credits			--	24	16


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(R13) M.TECH - DIGITAL SYSTEM & COMPUTER ELECTRONICS**I Year I Semester**

Group	Subject	L	P	Credits
	VLSI Technology and Design	3	-	3
	Digital System Design	3	-	3
	Advanced Data Communications	3	-	3
	Microcontrollers for Embedded System Design	3	-	3
Elective -I	CMOS Analog Integrated Circuit Design Image and Video Processing Embedded Systems Design	3	-	3
Elective -II	CMOS Digital Integrated Circuit Design Internetworking Soft Computing Techniques	3	-	3
Lab	Simulation Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22

I YEAR II SEM

Group	Subject	L	P	Credits
	Advanced Computer Architecture	3	-	3
	Low Power VLSI Design	3	-	3
	Design for Testability	3	-	3
	Embedded Real Time Operating Systems	3	-	3
Elective - III	CPLD and FPGA Architectures and Applications Network Security and Cryptography System on Chip Architecture	3	-	3
Elective – IV	CMOS Mixed Signal Circuit Design Digital Signal Processors and Architectures TCP/IP And ATM Networks	3	-	3
Lab	Embedded Systems Design Lab	-	3	2
	Seminar	-	-	2
	Total Credits	18	3	22



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II YEAR I SEM

Group	Subject	L	P	Credits
	Comprehensive Viva	-	-	2
	Project Seminar	-	3	2
	Project work	-	-	18
	Total Credits	-	3	22

II YEAR II SEM

Group	Subject	L	P	Credits
	Project work and Seminar	-	-	22
	Total Credits	-	-	22


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