



Courses That Include Experiential Learning Through Project Work/Field work/Internship.

BRANCH : Civil Engineering

ACADEMIC YEAR : 2018– 19

Courses that include experiential learning through project work	Project domain	justification
Elements of Mechanical Engineering Engineering /Applied Physics Lab Engg. Workshop & IT Workshop Probability & Statistics Surveying Survey Field Work - I Survey Field Work - II	Basic Projects with Multidisciplinary & Planning Layouts	Basic Knowledge of Mathematics and science are needed to understand any engineering problem.
Strength of Materials-I Building Materials & Construction Strength of Materials Lab Building Planning & Drawing Strength of Materials - II Concrete Technology Structural Analysis - I Structural Analysis -II Design & Drawing of Reinforced Concrete Structures Design & Drawing of Steel Structures Concrete Technology Lab GIS & CAD Lab	Structural Engineering	These courses help the students to do Design in various types of Structures, Study various properties of ingredients of concrete.
Fluid Mechanics Hydraulics & Hydraulic Machinery FM & HM Lab Irrigation Design & Drawing Engineering Geology	Hydraulics and Water Resources Engineering	These courses help the students to do Geometric design of design various hydraulics and water resources structures.
Geology Lab Geotechnical Engineering - I	Geotechnical Engineering	These courses help the students to do Geometric design of foundations in various types of soils for various structures.
Transportation Engineering - I Transportation Engineering - II Transportation Engineering Lab	Transportation Engineering	These courses help the students to plan and design Highways, Railways, Airports, Docks and harbours.
Environmental Engineering -I	Environmental Engineering	These courses help the students to plan and design water and waste water treatment system gaining expertise in subject knowledge

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BRANCH : EEE

ACADEMIC YEAR : 2018-19

Courses that include experiential learning through project work	Project domain	justification
HVAC & DC Transmission Power System Operation and Control Electrical Distribution System Microprocessor & Microcontrollers Lab Electrical Simulation Lab Power System Lab Flexible AC Transmission System Electrical Measurements Power Systems-II Power System Analysis Micro Processors and Micro controllers OOPS Through JAVA Energy Audit and Conservation&Management Data Structures Laboratory Utilization of Electrical Energy Power System Operation & Control Electrical Simulation Laboratory Power Systems & Simulation Laboratory HVDC Transmission Electrical Distribution Systems Flexible Alternating Current Transmission Systems	Power transmission, coding Smart grid Smart home	These courses help the students to do programming/simulation/hardware implementations
Renewable Energy Sources Renewable Energy Sources & Systems	Solar applications Power generation	Basic Engineering fundamentals and engineering specializations are needed to understand any engineering problem
Electrical Machines-II Laboratory Special Electrical Machines	Electric vehicle	These courses help the students to do programming/simulation/hardware implementations
Pulse & Digital Circuits Power Electronics Control Systems Laboratory Electrical Measurements Laboratory Power Electronic Controllers & Drives Power Electronics Laboratory Microprocessors & Microcontrollers Laboratory Switchgear and Protection Instrumentation	controlling, robots	These courses help the students to do hard ware implementation gaining expert knowledge



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Digital Control Systems Linear IC Applications Seminar Project Electrical Circuit Analysis - I Communication Skills Lab	controlling, robots	These courses help the students to do hard ware implementation gaining expert knowledge
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Courses That Include Experiential Learning Through Project Work/Field work/Internship.

BRANCH : Mechanical Engineering

ACADEMIC YEAR : 2018 – 19

Courses That Include Experiential Learning Through Project Work	Project Domain	Justification
Simulation Lab Design/Fabrication Project Project Work Engineering /Applied Physics – Virtual Labs - Assignments Computer Aided Engineering Drawing Practice Cad/Cam Lab Cad/Cam Finite Element Methods Metrology & Instrumentation Lab Computer Graphics Metrology Instrumentation & Control Systems Theory Of Machines Lab Dynamics Of Machinery Design Of Machine Members-II Design Of Machine Members -I Mechanics Of Solids & Metallurgy Lab	They can design any machine part	They can solve the design problems which is facing, and they can give new design which is appropriate
Industrial Hydraulics And Pneumatics Green Engineering Systems Engineering/Applied Chemistry Laboratory Automobile Engineering Power Plant Engineering Computational Fluid Dynamics Lab Heat Transfer Lab Refrigeration & Air-Conditioning Heat Transfer Thermal Engineering Lab Thermal Engineering -II Thermal Engineering -I	They can make new engines and new fuels	They can analysis the thermal properties and fluid flow in engines and boilers
Non Destructive Evaluation Automation In Manufacturing Nano Technology Metallurgy & Materials Science Production Planning And Control Unconventional Machining Processes Additive Manufacturing Advanced Materials Operations Research Industrial Engineering And Management	They can fabricate any type of machine parts	They can able to do machining and process planning for the production
Basic Electrical and Electronics Engineering Mechatronics Lab Mechatronics Electrical & Electronics Engg. Lab	They can make electrical and automated vehicles	They can able to connect the circuits and program for vehicles automation



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BRANCH : ECE

ACADEMIC YEAR : 2018 - 19

Courses that include experimental learning through project work	Project domain	justification
Digital Image Processing Radar Systems Optical Communication Microwave Engineering Lab Cellular Mobile Communications Electronics Measurements And Instrumentation Embedded Systems Wireless Sensors & Networks Project & Seminar	Basic Projects With Controlling And Monitoring	Basic Electronics Fundamentals And Engineering Specializations Are Needed To Understand Any Engineering Problem
Electrical And Mechanical Technology English - Communication Skills Lab -2 Applied / Engineering Chemistry Lab Computer Programming Lab	Design of logic for program development.	Basics Of Programming for developing logics for problems and applications.
Electronic Devices And Circuits Switching Theory And Logic Design Signals And Systems Network Analysis Random Variables And Stochastic Processes Electronic Devices And Circuits Lab Networks & Electrical Technology Lab	Design Of Transmitters, Receivers, Filters Etc.	These Courses Help The Students To Apply The Knowledge Of Electronics And Communication To Advanced Concepts.
Management Science Electronic Circuit Analysis Control Systems Electromagnetic Waves And Transmission Lines Analog Communications Pulse And Digital Circuits	Real-Time Applications Involving Automation	These Courses Help The Students Understand The Necessary Hard Ware For Implementing Real-Time Tasks.
Electronic Circuit Analysis Lab Analog Communications Lab Computer Architecture And Organization Linear I C Applications Digital I C Applications Digital Communications Antenna And Wave Propagation	Real-Time Analysis Of Environmental Based Applications	These Courses Help Students To Understand And Analyse The Surrounding Environmental Aspects.
Pulse And Digital Circuits Lab Linear I C Applications Lab Digital I C Applications Lab Micro Processors & Micro Controllers Micro Wave Engineering Vlsi Design Digital Signal Processing Micro Processors & Micro Controllers Lab Vlsi Lab Digital Communications Lab Bio-Medical Engineering Computer Programming	Security, Automation, Realtime Behaviour Of Designed System	Helps Student To Design, Implement And Analyse Any Realtime Application With Electronics And Communication Concepts.


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Courses That Include Experiential Learning Through Project Work/Field work/Internship.

BRANCH : CSE

ACADEMIC YEAR : 2018 – 19

Courses That Include experiential Learning Through Project Work	Project Domain	Justification
Hadoop And Big Data Lab	Console Applications,	This courses gives the knowledge of mathematics, science, computer fundamentals to create the solution to complex real-world problems.
Mathematics -3	Desktop Applications,	This courses gives the knowledge of mathematics, science, computer fundamentals to create the solution to complex real-world problems.
Engineering Mechanics	Web Applications,	This courses provides knowledge to design solutions for complex problems and design software's or processes that meet the specified needs.
English Communication Skills Lab-2	Android Applications,	This courses provides knowledge to design solutions for complex problems and design software's or processes that meet the specified needs.
Data Structures Through C++ Lab	Data Science Applications,	This courses provides knowledge to design and develop scientific applications.
Advanced Data Structures	Data ware housing and Data Mining,	This courses provides knowledge to design and develop scientific applications.
Formal Languages And Autometa Theory	Digital Image Processing,	It demonstrate knowledge and understanding of project management and finance activities
Advanced Data Structures Lab	Network Security	This courses provides knowledge to design and develop scientific applications. This courses provides knowledge to design and develop scientific applications.
Compiler Design	Internet of things	IT tools including prediction and modelling to complex problems with an understanding.
Unix Programming	Big data applications	This courses provides knowledge to design and develop scientific applications.
Unified Modelling Lab	Security	This courses provides knowledge



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		to design and develop scientific applications.
Operating Systems And Linux Programming Lab	Networking	This courses provides knowledge to design solutions for complex problems and design software's or processes that meet the specified needs.
Dataware housing And Mining	Embedded systems	This courses gives the knowledge of mathematics, science, computer fundamentals to create the solution to complex real-world problems.

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BRANCH : IT

ACADEMIC YEAR : 2018-19

Courses that include experimental learning through project work	Project domain	justification
UML & Design Patterns Elective - I: Multimedia Computing Elective -II: Hadoop and Big Data UML & Design Patterns Lab Mobile Application Development Lab Hadoop & BigData Lab C Programming Lab Applied/Engineering Physics-Virtual Labs-Assignments Object Oriented Programming through C++ Data Structures through C++ Computer Graphics E-Commerce Object Oriented Analysis and Design using UML Principles of Programming Languages Unified Modeling Languages Lab Human Computer Interaction Unix and Shell Programming Advanced Java Programming Operating Systems Advanced Java Programming Lab Unix and Operating System Lab Hadoop & BigData Lab Distributed Systems Management Information System Seminar Project	Using these programming language have to develop software	Basic Knowledge on computer programming language are needed to understand and solve the programming problems
Database Management Systems Lab Data Mining	Oracle, SQL	These courses help the students how to create database and maintains
Mathematical Optimization Statistics with R Programming Mathematical Foundations of ComputerScience	Mathematic calculation	Basic Knowledge of Mathematics and science are needed to understand any engineering problem
Cryptography and Network Security Lab Elective-III: Cyber Security	Information Security	Basics on cyber attacks and protocols that protect the data on the internet.
Web Technologies	Web Engineering	Deals with developing websites, management, deployment and maintenance.



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Software Engineering	Software Development and Testing	It focus on analysing the requirement of users to design deploy and test new software.
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Courses That Include Experiential Learning Through Project Work/Field work/Internship.

Name of the Program : MBA

ACADEMIC YEAR : 2018–19

Courses that include experiential learning through project work	Project domain	Justification
Management And Organizational Behaviour	Strategic alternatives for corporate issues and suggest best strategy for solving business problems.	This course provides basic knowledge on management, communication, and specialized knowledge in all specializations.
Managerial Economics	Optimize economic decisions by using operations research, mathematical programming, strategic decision making, game theory and other computational methods	This course provides the knowledge to better se of economic modes of thoughts to analyze business situations.
Cross Cultural Management	They will gain the analytical skills to map cultural differences and similarities and to diagnose their implications	The course takes a culture-general perspective: to learn systematic frameworks, analytical approaches, self-awareness, and behaviors that are related to effective interaction across cultures and in multicultural settings
Business Communication And Soft Skills Lab	Practically knowing how to present fresh ideas and cooperate with others can prove just as important as technical ability to your success in the workplace.	This course provides the knowledge to discover the means to cultivate the essential skills like team work, interpersonal skills, leadership, communication, critical thinking etc. practically.
INFORMATION TECHNOLOGY LAB -1(Spreadsheet And Tally)	This applications are dedicated to manage and process financial data in business	This course helps in maintaining accounts in manual books, we write accounting entries as debit and credit.
Financial Management	Finance management provides an opportunity to invest further and creating plans that are in-line with the long-term financial goals for their organization	This course is beneficial as it involves management, control, and review of the collection, investment and resources of money as a capital required for an industrial building, plant, and management.
Human Resource Management	HRM within an organization primarily concerned with the recruitment of and management of the people who work for the organization.	This course provides direction for the people who work in an organization and also seek to aid in their satisfaction.
Business Research Methods	The concept of Scientific Research and the methods of conducting scientific enquiry and to know about the statistical tools of Data Analysis	This course helps the businesses to gain better insights about their target customer's preferences, buying patterns, pain points, as well as demographics
Lean Management	It seeks to eliminate any waste of time, effort or money by identifying	The primary purpose of lean management is to produce value for



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	each step in a business process and then revising or cutting out steps that do not create value	the customer through the optimization of resources and create a steady workflow based on real customer demands
IT Lab- 2 (Programming R)	Helps in analyzing large amounts of data quickly; it can produce business ready reports.	This course can help to minimize the risk in investing portfolios in practical.


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