1.1.3. Average percentage of courses having focus on employability/ entrepreneurship/ offered by the institution during the last five years

Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Basic Electrical Engineering	CESBE2	evaluate electrical circuits using various theorems	2021-2022
Engineering Graphics	CESEG1	Able to construct sectional Views,top View, front View and side View for a given three-dimensional object.	2021-2022
C Programming for problem solving	CESCP1	Ability to develop C program for solving a problem.	2021-2022
Engineering Mechanics	CESEM1	Ability to Analyse the statically determinate structural elements with the help of MI	2021-2022
Building Materials, Construction & Planning	C13PC1	Have the knowledge of construction methods, building materials and its building planning	2021-2022
Surveying & Geomatics	C13PC2	Having the knowledge on Surveying by using different technologies and equipments.	2021-2022
Strength of Materials - I	C13PC3	ability to find various stresses and moments of structural elements	2021-2022
Fluid Mechanics	C13PC4	To analyse different fluid flows by using dimnesional analysis	2021-2022
Strength of Materials - II	C14PC2	analyse symmmetrical and unsymmetrical bending stresses of structural members	2021-2022
Hydraulics & Hydraulic Machinery	C14PC3	ability to design channels and hydraulic machines like turbines and pumps	2021-2022
Concrete Technology	C14PC5	abilty to design concrete mixes as per IS codes and also tests on concrete materials	2021-2022
Transportation Engineering	B15PC3	ability to design the geometric elements of highways and different pavements as per IS codes	2021-2022
Concrete Technology	B15PE4	Design special concrete mixes as per IS and ACI codes.	2021-2022
Construction Equipment & Materials	B15PE4	working of various equipments for different construction process	2021-2022
Fundamentals of management	B15HS5	ability to Manage Functions like Planning, Organizing, Staffing	2021-2022
Foundation Engineering	B16PC2	will do various soil investigations.	2021-2022
Design of Steel Structures	B16PC3	design different structural elements under tension & Compression	2021-2022
Hydrology & Water Resource Engineering	B16PC4	Estimate discharge and runoff of a catchment area	2021-2022
Engineering Graphics	CESEG1	Able to prepare all views of 3D objects	2021-2022
English Language & Communication Skills Lab	CHSE2	developing Speaking skills with clarity and confidence	2021-2022
Engineering Physics Lab	CBSP4	Understand the physics behind various mechanical waves, able to understand bending losses in optical fibre	2021-2022
Basic Electrical Engineering Lab	CESBE3	Analyze electrical installations using different lamp controlled methods, stair case wiring and different wiring connection	2021-2022
Material Chemistry Lab	CBSC2	enhances analytical skills of materials include polymers, ceramics, adhesives	2021-2022
C Programming for problem solving Lab	CESCP2	He will design and test programs to solve mathematical and scientific problem	2021-2022
Basic Workshop	CESBW1	gain basic working knowledge required for the production of engineering products.	2021-2022

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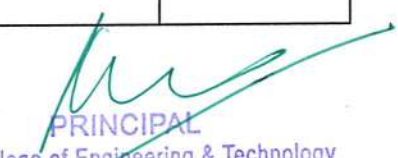(AUTONOMOUS)
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1.1.3. Average percentage of courses having focus on employability/ entrepreneurship/ offered by the institution during the last five years

Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Introduction to CAD Lab	CESIC1	Able to draw basic blocks of drawing elements using Computer.	2021-2022
Computer Aided Drawing Lab	CESCA1	Draw plans of one and two storeyed buildings, RCC framed Structures,Industrial buildings, roof structures – Trussess	2021-2022
Surveying Lab - I	C13PC5	Draw plans & maps to determine the areas before taking up any Civil Engineering works.	2021-2022
Strength of Materials Lab	C13PC6	Determine the properties of different metals.	2021-2022
Surveying Lab - II	C14PC6	Perform surveying on any civil engineering works using total station	2021-2022
Engineering Geology Lab	C14PC7	Identify the various rocks, minerals depending on geological classifications	2021-2022
Highway Engineering & Concrete Technology Lab	C14PC8	Assess the quality of various pavement materials and their suitability in highway construction	2021-2022
Highway Engineering & Concrete Technology Lab	B15PC6	Understand properties of various concrete materials	2021-2022
Soil Mechanics Lab	B15PC7	Understand properties of various soils	2021-2022
Advanced Communication Skills LAb	BE23	Develop interpersonal communication skill	2021-2022
Environmental Engineering Lab	B16PC7	Understand characteristics of water and waste water	2021-2022
Hydraulic Machinary Lab	B16PC8	Determine coefficients of discharge over closed conduits and various pipe losses	2021-2022
Computer Aided Civil Engineering Drawing	B16ES9	Drafting of steel structural components	2021-2022
Linear Algebra &Applied Calculus	CBSM7	Able to Evaluating double integrals and applying them to compute the areas of regions.	2021-2022
English	CHSE1	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills	2021-2022
Engineering Chemistry	CBSC3	able to utilize the characterization techniques in determining the quality of material and the corrosion mechanism of engineering work	2021-2022
Basic Electrical Engineering	CESBE2	able to develop electrical circuits and electrical installation to lead	2021-2022
English Language & Communication Skills Lab	CHSE2	Speaking skills with clarity and confidence which in turn enhances their skills.	2021-2022
Engineering Chemistry Lab	CBSC4	understands the hardness and importance of water quality for engineering and day to day life	2021-2022
Basic Electrical Engineering Lab	CESBE3	learn understand basic elctrical theorem using different technic and to devolap the concept of electical machines to lead	2021-2022
Basic Workshop	CESBW1	Ability to design and model various basic prototypes in the trade of Welding such as Lap joint, Butt joint.	2021-2022
Ordinary Differential Equations, Transforms & Vector Calculus	CBSM11	Evaluate the line- surface and volume integrals and converting them from one to another.	2021-2022

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Applied Physics	CBSP1	Illustrate the working function of photo detectors and working function of solar cells	2021-2022
Engineering Graphics	CESEG1	able to develop 3D Solids and able to visualize the object in simple and in section. and construct Top View, Front View and Side View for a given three-dimensional object	2021-2022
Semi-Conductor Devices & Circuits	CESSD1	Gain knowledge in the structure of Transistor, FET,MOS different types, operation, characteristics and applications	2021-2022
C Programming for Problem Solving	CESCP1	Gain knowledge in using C language for solving problems and Code a given logic in C programming language.	2021-2022
Applied Physics Lab	CBSP2	Apply appropriate techniques to perform the experiments and Understand the interaction of the light with semiconductor	2021-2022
C Programming for Problem Solving Lab	CESCP2	learn to implement various testing on equipments and to find the parameters	2021-2022
Yoga	MC002	Ability to develop personality , inner strength and peace	2021-2022
Probability, Numerical Methods and Complex	CBSM12	Analyse the complex functions with reference to their analyticity, integration using Cauchy's integral theorem & formula.	2021-2022
Electrical Circuit Analysis	C23PC1	Obtain the transient and steady-state response of electrical circuits and Analyze circuit analysis using laplace transform	2021-2022
Analog Electronics	C23PC2	e knowledge of BJT to design practical amplifier circuits and Design electronic sub systems such as Feedback amplifiers, Oscillators.	2021-2022
Electrical Machines-I	C23PC3	Understand different excitation and starting methods of DC machines and Analyze single phase and three phase transformers circuits	2021-2022
Electro Magnetic Fields	C23PC4	Analyze about Magnetic Forces, Materials and Inductance and Understand the Time Varying Fields and Maxwell's Equations	2021-2022
Analog Electronics Lab	C23PC5	Analyze Feedback and Power amplifiers and Diode applications	2021-2022
Electrical Machines Lab-I	C23PC6	Assess the performance of different machines using different testing methods and Identify different conditions required to be satisfied for self-excitation of DC	2021-2022
Electrical Circuit Analysis Lab	C23PC7	able to lern circuit concepts by using deffrent technics to devolap the prototype models	2021-2022
Cultural Activity	MC003	able to prepare various kinds of activities such as sports , singing & dansing to lead	2021-2022
Engineering Mechanics	CESEM1	Analyze statically determinate planar frames. Analyze the motion and calculate trajectory characteristics	2021-2022
Digital Electronics	C24PC1	able to implement logic gates and flipflops to apply in the microelectronics to lead	2021-2022
Electrical Machines-II	C24PC2	will learn understand the AC machines and speed control methods to various industries applications	2021-2022
Control Systems	C24PC3	Acquiring knowledge about control problems and transfer function representation and analyze the time response	2021-2022

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Power System-I	C24PC4	able to learn fundamental design of various types of power genration to lead	2021-2022
Digital Electronics Lab	C24PC5	Design various combinational & sequential circuits using various Digital ICs. and Acquire the knowledge of differentiating between Linear and Digital IC's	2021-2022
Electrical Machines Lab –II	C24PC6	able to learn defferent kinds of machins and develop modeling concept appllication to Agriculture sector to lead emplybility	2021-2022
Control Systems Lab	C24PC7	will learn to analyze various types of controllers using simmulation envirollment to lead employbility	2021-2022
Power Systems-I	B25PC1	will learn understand the concept to design of power generation methods to lead employbility	2021-2022
Power Electronics	B25PC2	gain knowledge on power electronics components and apply converters to industries to lead employbility	2021-2022
Microprocessors and Micro Controllers	B45PC3	Analyze different I/O devices which can be interfaced to microprocessor and microcontroller and Develop programs using instruction set of ARM	2021-2022
Electrical Machine Design	B25PE4X	learn to analyze and implementation various types of machines using deffrent technics to lead employbility	2021-2022
Power System Dynamics and Control		will learn to powerflow controller due to dynamic behavior and apply power sector industry	2021-2022
3. Digital Signal Processing		gain the knowledge on various types signals and develop filters to application in communications	2021-2022
Non Conventional Power Generation	Open Elective – I	able to understanf wind energy conversion and fundamental fuel cells, commerical batteries	2021-2022
Power Electronics Lab	B25PC6	able to learn design of power electronic components and its operations and apply converters to electronics circuites	2021-2022
Electrical Measurements and Instrumentation	B26PC2	able to understand the defferent types of meters and measure the power using with meters leads to	2021-2022
Power System Analysis	B26PC3	learn and analyze the power flow using defferent load flow technics and application to power sector	2021-2022
Signals and Systems	B26PC4	learn understand the various types of signals and develop filter concepts to application in cummunication network	2021-2022
Electrical Energy Conservation and Auditing	B26PE5X	gain the knowledge of electrical energe calculation and energy auditing to energy calculations	2021-2022
Computer Architecture		able to Develop the programs in assembly language for 80286, 80386 and MIPS processors in real and protected modes and Implement embedded applications using ATOM processor.	2021-2022
Line-Commutated and Active Rectifiers		learn understand the various types of converters and apply converters in design of power industries	2021-2022
Design estimnation and costing of electrical systems	Open Elective – II	gain the knowledge design consideration of electtrical instllation and building and small insdustries	2021-2022
Electrical systems simulation Lab	B26PC7	learn and analyze the invertors, electrical machins and power flow studies using simmulaiton tools to lead	2021-2022

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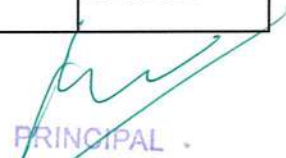Medbowli, Meerpet, Hyderabad- 500097,

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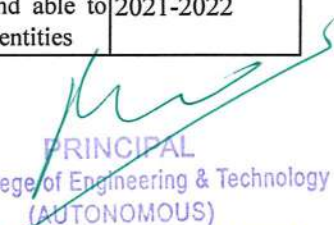| Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Electrical Measurements and Instrumentation Lab	B26PC8	able to learn understand the errors calculations in defferent meters and develop the bridges to lead	2021-2022
Electrical Workshop	B26PC9	Acquire knowledge on defferent types of electrical components and develop the electrical components models to lead	2021-2022
Power System Operation and Control	B27PC1	gain the knowledge on turbine model and generator model to apply power industries	2021-2022
Wind and Solar Energy Systems	B27PEX	able to learn understand the power generation model by using RES	2021-2022
Hybrid Electrical Vehicles		learn and analyze the desing of electrical vihicles and its performance characteristice and apply hybride electrical vehicle for transportation applications	2021-2022
Flexible AC Transmission Systems		gain the knowledge on various types of FACTS controllers and modeling of facts controllers for power sectors applications	2021-2022
Power System Protection	B27PC3	able to learn understand the defferent type of relyes and microprocessor based relyes for protect the power industries	2021-2022
Advanced Control systems	Open Elective – III	Gain the knowledge of stability analysis, phase plane analysis and state space analysis of continuous systems	2021-2022
Power systems Lab	B27PC5	able to learn evaluation of transmission line parameters and calculaitons of different types of faults lead to	2021-2022
Project Stage-I	B27PW6	learn and develop the prototype modals of electrical systems and applications to control and mesure the objectives lead to	2021-2022
HVDC Transmission Systems	B28PE1X	gaine the knowledge on AC and DC transmission lines and power flow control in HVDC system	2021-2022
Computational Electromagnetics		learn the understand various types of electromagnetics and apply competations electromagnetics for design of electric machines	2021-2022
Electromagnetic Waves		learn the understanding various types of electromagnetic waves and its applications	2021-2022
Industrial Electrical Systems	B28PE2	able to analyze the energy calculaitons to industries sectors	2021-2022
Modern Control Theory		able to learn design of various kinds of controllers and test the stability using control technics	2021-2022
Electrical Drives		able to learn knowledge on deffrent converters and apply develop converters in various applications in EV	2021-2022
Utilization of Electrical Energy	B28PE3X	able to learn use of electrical energy by various illuamation methods and develop model the electric traction for energy utilizations in industries	2021-2022
High Voltage Engineering		will able to test the high voltage equpements using defferent technics to lead	2021-2022

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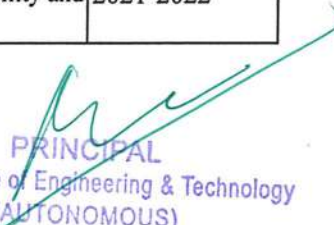| Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Computer Aided Design of Electrical Machines		able to learn analyze the electrical AC and DC Machines using CAD software lead to	2021-2022
Project Stage-II	B28PW4	able to learn design of prototype electrical models and applications in defferent objectives like mesure voltage, power and speed control lead to	2021-2022
Comprehensive Test	B28CT5	able to understad and face the technical interviews will lead to	2021-2022
Linear Algebra & Applied Calculus	CBSM7	To discuss the matrix representation of a set of linear equations and to analyse the solution of the system of equations.	2021-2022
Engineering Physics	CBSP3	To learn about transverse and longitudinal wave equation on strings	2021-2022
C Programming for Problem Solving	CESCP1	Ability to design and test programs to solve mathematical and scientific problems	2021-2022
Engineering Graphics	CESEG1	To develop 3D Solids and able to visualize the object in simple and in section	2021-2022
Engineering Physics Lab	CBSP4	To compare the theory and correlate with experiments.	2021-2022
C Programming for Problem Solving Lab	CESCP2	Ability to design and test programs to solve mathematical and scientific problems	2021-2022
Fuels & Lubricants Lab	CESFL	Analyse the flash and fire points of liquid fuels	2021-2022
Engineering Workshop	CESEW2	Ability to design and model various basic prototypes in the trade of Fitting, carpentry, house wiring, tin smithy and Welding.	2021-2022
Engineering Chemistry Lab	CBSC4	To understand about materials and the chemical bonding in them	2021-2022
English Language & Communication Skills Lab	CHSE2	To understand nuances of English language through audio-visual experience and group activities.	2021-2022
Probability & Statistics and Complex Variables	CBSM10	The ideas of probability and random variables and various discrete probability distribution and theiractivities.	2021-2022
Basic Electrical Engineering	CESBE2	To understand and analyze DC circuits using basic principles	2021-2022
Basic Electronics	CESBE1	To acquires the knowledge in semiconductor materials	2021-2022
Thermodynamics	C33PC1	Apply the laws of Thermodynamics to different types of systems undergoing various processes and to perform thermodynamic analysis	2021-2022
Metallurgy and Material Science	C33PC2	Describe the concept of heat treatment of steels & strengthening mechanisms	2021-2022
Mechanics of Solids	C33PC3	Analyze and interpret laboratory data relating to behavior of structures and the materials they aremade of, and undertake associated laboratory work individually and in teams	2021-2022
Basic Electrical and Electronics Engineering lab	CESEE2	To apply various laws to solve electrical networks	2021-2022
Mechanics of Solids & MMS Lab	C33PC4	Apply knowledge of materials and structural elements to the analysis of simple structures	2021-2022
Business Economics and Financial Analysis	CHSM1	To analyze the total structure of the business and able to identify and classify the different types of business entities	2021-2022

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Fluid Mechanics and Hydraulic Machines	C34PC1	To analyze a variety of practical fluid flow and measuring devices and utilize fluid mechanics principles in design	2021-2022
Kinematics of Machinery	C34PC2	To analyze the various mechanisms of machines and design various steering gear mechanisms	2021-2022
Manufacturing Process	C34PC4	Develop process maps for metal forming processes and identify process variables to manufactured efect free components	2021-2022
Machine Drawing	C34PC5	Developing assembly drawings using part drawings of machine components	2021-2022
Thermal Engineering - I	C34PC6	Apply the laws of Thermodynamics to evaluate the performance of Refrigeration and air-conditioning cycles	2021-2022
Fluid Mechanics and Hydraulic Machines Lab	C34PC7	To select and analyze an appropriate turbine with reference to given situation in powerplants	2021-2022
Manufacturing Process Lab	C34PC8	Understand the properties of moulding sands and mould making and Identify and develop the effect of process variables to manufacture defect free products	2021-2022
Design of Machine members-I	B35PC1	Acquire procedure to analyze and design of keys, knuckle and cotter joints for different applications	2021-2022
Thermal Engineering-I I	B35PC2	Evaluate the operating principles and performance of Reaction turbine and Steam condensers	2021-2022
Machine tools	B35PC3	Analyze the working of lathe, shaper, planer, drilling, milling and grinding machines	2021-2022
Automobile Engineering	B35PC4	Analyze the working of various components of the automobile Electrical System and Transmission System	2021-2022
Finite Element Methods	B35PE5A	Analyze 2D structural problems using CST element and analyze plane stress, plane strain and axis symmetric problems and Apply the concepts of numerical integration in FE modeling	2021-2022
Engineering Metrology	B35PE5B	Analyze the methods and devices for measurement of length, angle, gear & thread parameters, surface roughness and geometric features of parts	2021-2022
I.C. Engines and Gas Turbines Methods	B35PE5C	Evaluate the performance of IC engines and gas turbines and the importance of alternate fuels	2021-2022
Thermal engineering Lab	B35PC7	To understand the working principles of IC Engines, Compressors	2021-2022
Machine tools lab	B35PC8	To understand the working principles of IC Engines, Compressors	2021-2022
Engineering Metrology Lab.	B35PC9	To be able to select and use the appropriate measuring instrument according to a specific requirement	2021-2022
Refrigeration and Air Conditioning	B37PC1	To analyse the refrigeration and air conditioning systems	2021-2022
Operations Research	B37PC2	To apply a different linear programming problem technique which has a broad experience in finding the optimum profit	2021-2022
CAD/CAM	B37PC3	To apply the principles /methods of GT and CAPP for product development	2021-2022
Professional Elective-IV Welding Technology	B37PE4	To analyse the concepts on weld joint design, weldability and testing of weldments	2021-2022

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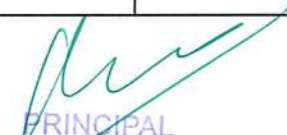Medbowli, Meerpet, Hyderabad- 500097.

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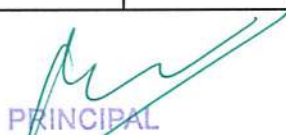| Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Professional Elective-V: Un-Conventional Machining Processes	B37PE5	Evaluate the unconventional machining techniques	2021-2022
CAD/CAM lab	B37PC6	To create CNC part programming and perform its manufacturing	2021-2022
Production Planning and Control	B38PC1	To Interpret dispatching procedures and various forms used in dispatching	2021-2022
Professional Elective-VI : Renewable energy sources	B38PE2	To create a better scope on wind energy utilization and research	2021-2022
Project Work – B & Final Seminar	B38PW3	To study and will be able to clearly formulate and state a research problem	2021-2022
Comprehensive Viva/MCQ Testing	B38CV4	To understand baiscs of various subject knowledge	2021-2022
Linear Algebra Calculus & Ordinary Differential Equations	CBSM13	To apply the knowledge of transformation in solving real world problems	2021-2022
Electronic Devices	CESED1	To Gain knowledge in the Operation and Characteristics of BJTs and FETs	2021-2022
C Programming for Problem Solving	CESCP1	To Gain knowledge using logic in C programming language for solving problems	2021-2022
Transforms Theory	CBSM14	To Use Laplace transforms techniques for solving differential equations	2021-2022
Applied Chemistry	CBSC5	helps in predicting the chemical reactions in different environmental conditions	2021-2022
English	CHSE1	To Communicate confidently in various contexts and different cultures	2021-2022
Basic Electrical Engineering	CESBE2	Understand the characteristics and performance of Electrical Machines and Transformers	2021-2022
Analog Communications	C44PC1	Analyze and design various Modulation and Demodulation analog systems	2021-2022
Pulse and Digital Circuits	C44PC3	Design multivibrators for various applications	2021-2022
Linear IC Applications	C44PC4	A thorough understanding of operational amplifiers	2021-2022
Electromagnetic Theory and Transmission Lines	C44PC5	Analyze the EM wave propagation and attenuation in various media	2021-2022
VLSI Design	B45PC2	Provide design concepts required to design building blocks of data path using gates	2021-2022
Digital Signal Processing	B46PC3	Understand the significance of various filter structures and effects of round off errors	2021-2022
Microprocessors and Microcontrollers	B46PE3-I	Acquire the knowledge of interfacing techniques to 8086 and 8051	2021-2022
Information Theory And Coding	B46PE3-I	To analyze and design wireless and mobile cellular systems	2021-2022
Cellular and Mobile Communications	B46PE4-I	Ability to apply coding techniques	2021-2022
Wireless Communications and Networks	B46PE4-II	Gains knowledge on fundamental treatment about many practical and theoretical concepts that forms basic of wireless communications	2021-2022

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Image Processing and Pattern Recognition	B47HS4	Gains knowledge about image processing and pattern recognition	2021-2022
Business Economics and Financial Analysis	B47PC1	Analyze the rectangular waveguides and design waveguides for solving practical Microwave transmission line problems	2021-2022
Microwave Engineering	B48PE1-I	The firm's financial position by analyzing the Financial Statements of a Company	2021-2022
Adhoc Wireless Sensors Networks	B48PE2-I	Ability to design and implement sensor network protocols	2021-2022
Satellite Communications	B48PE2-II	Visualize satellite sub systems & demonstrate the design of satellite links	2021-2022
Design of Fault Tolerant Systems	B48PE3-I	Design for testability rules and techniques for combinational circuits	2021-2022
Embedded Systems Design	B48PE3-II	visualize the role of Real time systems in Embedded Systems	2021-2022
Engineering Graphics	CESEG1	will learn to apply 3D techniques for understanding internal consturction details and visualize the objects	2021-2022
C Programming for Problem Solving	CESCP1	learns to develop C Programs for various applications	2021-2022
English Language & Communication Skills Lab	CHSE2	learns to communicate confidently in various contexts and different clusters.	2021-2022
C Programming for Problem Solving Lab	CESCP2	learns to design and test programs to solve mathematical and scientific problems	2021-2022
IT Workshop	CESIT1	gains knowledge on assembling a computer and software installations	2021-2022
Logic Circuits Design	CESLC1	demonstrate memory, RAM, ROM and Programmable Logic Array	2021-2022
Database Management Systems	C53PC1	Skill Design entity relationship model, apply normalization techniques to devlop application software	2021-2022
Data Structures	C53PC2	learn to analyze and implement various kinds of searching and sorting techniques	2021-2022
Operating Systems	C53PC3	will learn to apply various mechanisms to detect and recover deadlocks and demonstrate various memory management strategies	2021-2022
Logic Circuits Design Lab	CESLC2	learns to analyze and interpret the results obtained for logic gates and various combinational and sequential circuits	2021-2022
Database Management Systems Lab	C53PC4	learn to implement quries using SQL DML/DDL/DCL commands	2021-2022
Data Structures Lab	C53PC5	will learn to apply various data structures such as stacks, queues, search trees and hash tables to solve the computing problems.	2021-2022
Computer Organization & Architecture	C54PC1	design the hardwired and micro-programmed control units and demonstrate 8086 architecture	2021-2022
Object Oriented Programming through Java	C54PC5	develop programs using java packages, interfaces and stream based I/O functions, analyze handling errors and concurrency using java	2021-2022

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1.1.3. Average percentage of courses having focus on employability/ entrepreneurship/ offered by the institution during the last five years

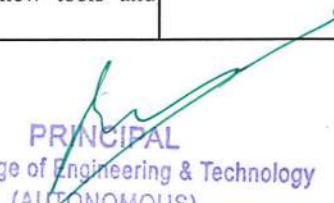| Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Object Oriented Programming through Java Lab	C54PC6	Design and develop programs using objects and inheritance in Java Language	2021-2022
Computer Organization & Architecture Lab	C54PC7	design algorithm to develop assembly language program for different problems using 8086 Assembly Language Programming	2021-2022
Design and Analysis of Algorithms Lab	C54PC8	learns to apply important algorithmic design pardigms and methods of analysis	2021-2022
Software Engineering	C54PC2	identify the minimum requirements and system models for the development of applications	2021-2022
Business Economics and Financial Analysis	CHSM1	Infer the knowledge about production and cost analysis for product and services	2021-2022
Operating Systems	B55PC2	Employablity will learn to implement concepts of operating system design	2021-2022
Computer Networks	B55PC3	Skill devlopment will learn to demonstrate different application layer protocols	2021-2022
Web Technologies	B55PC6	will learn to design server side programming applications with servelets	2021-2022
Operating Systems Lab	B55PC7	will learn to analyze interprocess communications	2021-2022
Computer Networks Lab	B55PC8	will learn to construct different encryption and decryption techniques	2021-2022
Web Technologies Lab	B55PC9	will learn to implement the knowledge of client side scripting, validation of forms and AJAX Programs	2021-2022
R Programming	B56PC4	will learn to create data frames, factors and tables	2021-2022
R Programming Lab	B56PC7	will learn to apply R programming skills to generate maps, plots based on data	2021-2022
Data Warehousing and Data Mining	B56PC5	will learn to analyze classification, prediction and their respective performance evaluation metrics on sample data sets	2021-2022
Data Warehousing and Data Mining Lab	B56PC8	will learn to apply various data manipulation tasks on various data sets	2021-2022
Object Oriented Analysis and Design	B56PC6	will gain the knowledge on how to implement activities in the different phases of object oriented development cycle using structured approaches	2021-2022
Object Oriented Analysis and Design Lab	B56PC9	will learn to develop solutions for problems using java collection frame work	2021-2022
Complier Design	B56PC3	Employablity will gain the knowledge on how different phases of complier works, analyze code optimization techniques and runtime environment	2021-2022
Language Processor Lab	B56PC10	course enables him/her to work in the development phase of new computer languages in industry	2021-2022
Technologies Lab	B57PC6	will learn to apply machine learning concepts and algorithms, make use of data sets. Develop programs using Aurdino IDE and Aurdino Board for RGB Led, RFID, NFC, MQTT Protocol and LED blinking using Rasberry Pi	2021-2022
Business Economics and Financial Analysis	CHSM1	Analyzing the financial statement of the company through various ratios	2021-2022

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Mathematical Foundation of Computer Science	CBSM4	Apply mathematical logic to solve problems	2021-2022
Data Structures	CESDS1	Analyses the time and space complexities of algorithms	2021-2022
Digital Logic Design	C63PC1	Analyze complete circuits to build larger complex circuits	2021-2022
Operating Systems	C63PC2	Analyze the performance of operating system	2021-2022
Linux Programming	C63PC3	Develop skills to operate linux operating system	2021-2022
Data Structures Lab	CESDS2	Apply data structures for solving real world problems	2021-2022
Linux/Operating Systems Lab	C63PC4	Develop skills to operate various operating systems	2021-2022
Probability & Statistics	CBSM3	Analyze data and Apply Probability and Statistical Methods	2021-2022
Computer Organization	C64PC1	Demonstrate RAM, ROM, 8086...	2021-2022
Database Management Systems	C64PC2	Apply Normal forms, Recovery techniques	2021-2022
Java Programming	C64PC3	Design GUI based applications	2021-2022
Design and Analysis of Algorithms	C64PC4	Analyze the performance of the algorithms	2021-2022
Formal Languages and Automata Theory	C64PC5	Demonstrate Finite Automata, CFG, PDA.	2021-2022
Java Programming Lab	C64PC6	Develop GUI programs	2021-2022
Database Management Systems Lab	C64PC7	Analyze normalization & Develop programs using PL/SQL	2021-2022
Artificial Intelligence	B67PE1	Analyze network of physical objects	2021-2022
Mobile Computing	B67PE2	Develop mobile adhoc networks	2021-2022
Information Security	B67PE3	Analyze threats	2021-2022
OE-III	OE203	Acquire knowledge in inter disciplinary of electronic communications	2021-2022
Advanced Communication Skills Lab	BE23	Develop interpersonal communication skills	2021-2022
Wireless Sensor Networks	B67PE6	Deploy wireless sensor networks	2021-2022
Project Work Part-A	B67PW7	Develop Projects	2021-2022
OE-II	OE202	Analyze ontology methods	2021-2022
SemanticWeb & Social Networks	B68PE2	Test the overall knowledge of the student in the relevant Subjects/Topics	2021-2022
Comprehensive Viva	B68CV3	Execute Projects	2021-2022
Project Work Part – B		Analyzing the financial statement of the company through various ratios	2021-2022
Business Economics and Financial Analysis	CHSM1	analyze the total structure of the business, assess demand and supply using various elasticity measures, analyze production	2021-2022
Statistical Methods	CBSM5	the ability to utilize statistical analysis techniques to solve problems	2021-2022
Logic Ciruits Design	CESLC1	the tools and technology utilized in the field of digital electronics continue to improve; students must stay current on these advancements, make adjustments to new tools and methods, and continue learning.	2021-2022

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Database Management Systems	C73PC1	Apply normalization for the development of application software	2021-2022
Data Structures	C73PC2	Choose appropriate data structures to represent data items in real world problems	2021-2022
Operating Systems	C73PC3	Understand the CPU scheduling and process scheduling	2021-2022
Logic Ciruits Design Lab	CESLC2	the student will possess skills related to digital circuit design, including the ability to apply fundamentals of digital logic gates to design combinational and sequential circuits	2021-2022
Database Management Systems Lab	C73PC4	applying normalization techniques, formulating queries using SQL DML/DDL/DCL commands, and developing application programs using PL/SQL to solve realistic problems.	2021-2022
Data Structures Lab	C73PC5	implementing various data structures and algorithms to solve real-world computing problems.	2021-2022
Probability & Algebra	CBSM6	applying probability concepts and solving problems related to discrete and continuous random variables and probability distributions	2021-2022
Introduction to Computer Vision	C74PC1	ability to review fundamental concepts, perform statistical operations and spatial transformations, understand segmentation and edge detection, apply methods for region identification and pattern recognition, and comprehend basic concepts of compression.	2021-2022
Software Engineering	C74PC2	Understanding of the basic knowledge, analysis and design of complex systems.	2021-2022
Design and Analysis of Algorithms	C74PC3	able to synthesize efficient algorithms in common engineering design situations such as the greedy, divide and conquer, dynamic programming, backtracking and branch-bound.	2021-2022
Formal Languages and Automata Theory	C74PC4	Including the ability to understand abstract machines, model and solve computing problems using finite state machines, design context free grammars, normalize context free grammar, design Turing Machines, and distinguish between decidability and intractable problems.	2021-2022
R Programming	C74PC5	the ability to create and manipulate data structures such as vectors, matrices, factors, and data frames, and the ability to automate analyses and create new functions in R.	2021-2022
Scripting Languages Lab Ruby, Perl, PHP,JS	C74PC6	writing and executing server-side scripts in PHP, Ruby, and Perl	2021-2022
R Programming Lab	C74PC7	Implement empirical economic analyses.	2021-2022
C Programming for Problem Solving Lab	CESCP2	The best way to improve your programming skills is to practice writing programs. Start with simple programs and gradually move on to more complex ones.	2021-2022
English Language & Communication Skills Lab	CHSE2	To improve speaking skills with clarity and confidence, which in turn enhances skills,	2021-2022
Introduction to Object-Oriented Programming & Data Structures using Java	CESOP1	Defining Classes and Invoking Methods:, Implement the Basic data structures and operations	2021-2022

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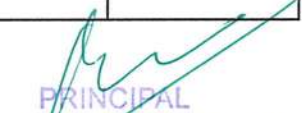(AUTONOMOUS)
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R Programming	C83PC3	Designed for data analysis, statistics, and graphics. It is an open-source software that provides a wide range of statistical and graphical techniques. The basic function of R is to perform data manipulation, data visualization, and statistical analysis.	2021-2022
Python Programming	C84PC5	Python is a popular language for network programming, web services, and database management. Python provides several built-in modules for working with network sockets, including socket and ssl .	2021-2022
Data Visualization Lab	C84PC7	Visualize the different types of data like:Categorical data,Numerical data,Time series data,Geospatial data,Text data,Network data .	2021-2022
Web Technology	C85PC1	Server-side scripting with PHP and XML:,Handling HTTP requests with Servlets,Server-side programming with Servlets and JSP,Client-side scripting with JavaScript, form validation, and AJAX	2021-2022
Web Technologies Lab	C85PC6	Write an applications using Technologies like HTML, Javascript, AJAX, PHP, Servlets, and JSPs, Parse XML files using Java DOM and SAX parsers	2021-2022
Machine learning Lab	C85PC7	implementing machine learning algorithms requires selecting relevant data sets, choosing a suitable programming language and library, and selecting the appropriate algorithm for the task at hand. With the right tools and techniques, you can build powerful machine learning models that can provide valuable insights and predictions	2021-2022
Natural Language Processing Lab	C86PC1	Understand and carry out proper experimental methodology for training and evaluating empirical NLP systems.	2021-2022
Advanced English Communication Skills Lab	CHSE3	to equip students with the language skills they need to succeed in academic and professional contexts where English is the medium of communication.	2021-22
Big Data Analytics Lab	C87PC7	Develop problem solving and critical thinking skills in fundamental enable techniques like Hadoop & MapReduce. Construct and Explain with structure and unstructured data by using NoSQL commands	2021-2022
Cross Cultural Management	C141OE6D	to learn the importance of culture and values in conducting business	2021-2022
Marketing Research	C142OE7	and Enterprenuershiptoanalyse markets and customer driven strategies for business development	2021-2022
SDA LAB	C142PC8	to apply statistical tools to a research problem	2021-2022
Business Law and Environment	C141PC5	learn legal and regulatory framework for conducting business	2021-2022
Business Communication Lab.	C141PC7	and Enterprenuership to analyse the importance of the communication in business and its application.	2021-2022
Human Resource Management	C142PC1	and Enterprenuership to manage the human resources of an organisation	2021-2022
Marketing Management	C142PC2	and Enterprenuershiptoanalyse markets and customer driven strategies for business development	2021-2022

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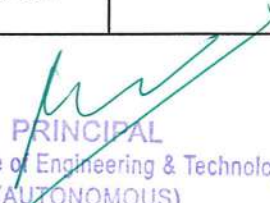Medbowli, Meerpet, Hyderabad- 500097,

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Financial Management	C142PC3	and Enterprenuershipto understand the utilisation of financial resources in a corporate	2021-2022
Entrepreneurship	C142PC6	To analyse the opportunity as an entrepreneur and to fill the gap in market needs	2021-2022
Data Analytics	C143PC3	Application of Analytical tools to solve business problems	2021-2022
Leadership and Change Management	C144PE3-H2	learn the leader traits and styles to mange change in organisations	2021-2022
International Human Resource Management	C144PE2-H1	to understand IHRM context of global workforce	2021-2022
International Financial Management	C144PE2-F1:	to understand IHRM context of global workforce	2021-2022
Family Business Management	C143PE6-E3	to understand the significance of family owned businesses for achieving competitive advantage	2021-2022
Engineering Graphics	CESEG1	To draw lines, curves and show dimensions as per BIS standards and constructs all views	2020-2021
Basic Electrical Engineering	CESBE2	Understand the applications of various electrical installations.	2020-2021
C Programming for problem solving	CESCP1	Able to write algorithms and C program for solving a problem.	2020-2021
Engineering Mechanics	CESEM1	Able to determine efficiency of simple machines with consideration of friction.	2020-2021
Building Materials, Construction & Planning	B13PC1	Understand the various building components and byelaws	2020-2021
Surveying & Geomatics	B13PC2	able to locate column location and slope of the pipe line.	2020-2021
Strength of Materials -I	B13PC3	Determine the principal planes, stresses and strains in structural members and also draw BMD and SHD	2020-2021
Fluid Mechanics	B13PC4	Compute hydrostatic and hydrodynamic forces of fluids	2020-2021
Probability & Statistics	BBSM3	Able to know basic ideas of statistics including correlation and regression	2020-2021
Strength of Materials –II	B14PC2	Knowledge of evaluation the slope and deflection of beams subjected to loads	2020-2021
Hydraulics & Hydraulic Machinery	B14PC3	Concept of flow of fluids and working proportions of hydraulic machines	2020-2021
Structural Analysis -I	B14PC4	Analyse equilibrium and compatibility equations for structural members	2020-2021
Soil Mechanics	B14PC5	Soil Condition and will able to determine soil properties	2020-2021
Transportation Engineering	B15PC3	Design the geometric elements of highways and expressways	2020-2021
Concrete Technology	B15PE4	Quality Control tests on concrete making materials	2020-2021
Construction Equipment & Materials	B15PE4	Can able to manage the equipment, cost control and maintenance of a project	2020-2021
Fundamentals of management	B15HS5	Understand various Management Functions like Planning, Organizing, Staffing, Leading, Motivation and Control aspects	2020-2021
Foundation Engineering	B16PC2	Analyse the stability of slopes, earth pressure under different soil conditions. Evaluate the SBC of shallow foundation	2020-2021

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Design of Steel Structures	B16PC3	Design steel members	2020-2021
Hydrology & Water Resource Engineering	B16PC4	Compute yield from surface and subsurface basins	2020-2021
Foundation Engineering	A17PC1	Concepts of pile and well foundations	2020-2021
Estimation & Costing	A17PC2	Will learn importance of valuation and costing procedure for various item of works	2020-2021
Prestressed Concrete	A17PE4	Concepts of prestressing in concrete structures and identify the materials for prestressing	2020-2021
Rehabilitation And Retrofitting	A17PE4	Interpret the types of damages and understand their mechanism for restoring the structure	2020-2021
Water Resources Engineering-II	A17PE5	Know the types of reservoirs, zones of storages of a reservoir	2020-2021
Pavement Design, Construction & Maintenance	A17PE6	Construction stages and network techniques	2020-2021
Industrial Waste waterTreatment	A18PE1	Can get opportunities in the field of conventional and advanced treatment systems adopted for various industrial effluents	2020-2021
Engineering Graphics	CESEG1	Prepare sectional views of a 3D object for understanding internal construction details	2020-2021
English Language & Communication Skills Lab	CHSE2	Neutralization of accent for intelligibility in any situation	2020-2021
Engineering Physics Lab	CBSP4	Understand the physics behind various mechanical waves	2020-2021
Basic Electrical Engineering Lab	CESBE3	Analyze and evaluate electrical circuits using various theorems	2020-2021
Material Chemistry Lab	CBSC2	Predicting the chemical reactions in different environmental conditions on civil engineering applications	2020-2021
C Programming for problem solving Lab	CESCP2	Code a given logic in C programming language. Gain knowledge in using C language for solving problems	2020-2021
Basic Workshop	CESBW1	Ability to design and model various basic prototypes in the trade of fitting such as straight and L fit for various material like wood and steel	2020-2021
Introduction to CAD Lab	CESIC1	Practicing various commands in CAD, Preparing working drawings to communicate the ideas and information	2020-2021
Surveying Lab-I	B13PC6	Practically able to do survey, draw plans & maps to determine the areas before taking up any civil engineering works	2020-2021
Strength of Materials Lab	B13PC7	Will able to conduct flexural and torsion tests to determine elastic constants	2020-2021
Computer Aided Design Lab-II	B13PC8	Understand and draw the 2D building drawing	2020-2021
Surveying Lab-II	B14PC7	Perform surveying of any civil engineering work	2020-2021
Fluid Mechanics Lab	B14PC8	Calibrate notches venturimeter orifice meters	2020-2021
Engineering Geology Lab	B14PC9	Interpretation and drawing of sections for geological maps showing tilted beds, faults, unconformities etc	2020-2021
Highway Engineering & Concrete Technology Lab	B15PC6	Assess the quality of various pavement materials and their suitability in highway construction	2020-2021

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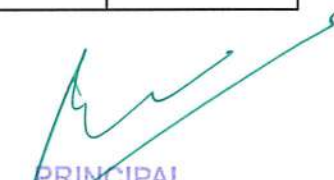Medbowli, Meerpet, Hyderabad- 500097.

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Soil Mechanics Lab	B15PC7	Determine the various properties of soils by using different lab tests	2020-2021
Advanced Communication Skills LAb	BE23	Communicate confidently in formal and informal contexts	2020-2021
Environmental Engineering Lab	B16PC7	Analyze the survival conditions for the microorganism and its growth rate in water/waste water	2020-2021
Hydraulic Machinary Lab	B16PC8	Determine Energy loss in Hydraulic jump and Calibrate standing wave flume.	2020-2021
Computer Aided Civil Engineering Drawing	B16ES9	Student will be able to draft the various infra project structures	2020-2021
Highway Engineering Lab	A17PC7	Quality of various pavement materials and their suitability in highway construction	2020-2021
Environment Engineering Lab	A17PC8	Degree of treatment required for the water and wastewater	2020-2021
Linear Algebra &Applied Calculus	CBSM7	Demonstrate problem solving for applications of multiple integrals in solving engineering problems.	2020-2021
English	CHSE1	Use English Language effectively in spoken and written forms and Comprehend the given texts and respond appropriately.	2020-2021
Engineering Chemistry	CBSC3	understand about materials and the chemical bonding in them. It further helps in understanding the properties of different materials which are important in engineering works	2020-2021
Basic Electrical Engineering	CESBE2	will able to design the electrical instalation work and develop the various circuites applications in power sector and provide to intreprenceurship	2020-2021
English Language & Communication Skills Lab	CHSE2	able to learn types of communicaiton skills, deffrent types of formal letters guestures behavioral of students to lead	2020-2021
Engineering Chemistry Lab	CBSC4	understand about materials and the chemical bonding in them. It further helps in understanding the properties of different materials which are important in engineering works	2020-2021
Basic Electrical Engineering Lab	CESBE3	able to learn understand the concept on various electrical power networks using defferent technics to lead s	2020-2021
Basic Workshop	CESBW1	Ability to perform various basic House Wiring techniques such as connecting one lamp with one switch, connecting two lamps with one switch, Series wiring.	2020-2021
Ordinary Differential Equations, Transforms & Vector Calculus	CBSM11	able to Solve higher differential equation and apply the concept of differential equation to real world problems	2020-2021
Applied Physics	CBSP1	Able to estimate the concentration of charge carriers using Fermi level in semiconductors and Understand light-semiconductor interaction	2020-2021
Engineering Graphics	CESEG1	able to prepare sectional views of a 3D object for understanding internal construction details. And to develop 3D Solids and able to visualize the object in simple and in section	2020-2021

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Semi-Conductor Devices & Circuits	CESSD1	Acquire the knowledge of different types of diodes including their modes of operation, etc. and Design the circuits for the conversion of AC to DC Voltages.	2020-2021
C Programming for Problem Solving	CESCP1	able to develop logics which will help them to create programs, applications in C	2020-2021
Applied Physics Lab	CBSP2	Understand the interaction of the light with semiconductor and Apply appropriate techniques to perform the experiments	2020-2021
C Programming for Problem Solving Lab	CESCP2	acquire Ability to design and test programs to solve mathematical and scientific problems	2020-2021
Numerical Methods and Transforms	BBSM4	Able to find the root of a given equation using numerical methods and integral values using numerical techniques	2020-2021
Electrical Circuit Analysis	B23PC2	will able to understand the concept of circuit theorems using defferent technics and calculate P, V and I for domostic applications	2020-2021
Electronic Circuits	B43PC3	Design Linear and nonlinear wave shaping circuits with different inputs and Analyze Multi vibrators using transistors.	2020-2021
Electrical Machines-I	B23PC4	gaine the knowledge on AC and DC machines and its application in industries to lead	2020-2021
Electromagnetic Fields	B23PC5	Able to understand the electrostatic field and magnetic theory using and the maxwell equation will anlyze magnetic flux generation	2020-2021
Electronic Circuits Lab	B43PC6	Apply the concepts of amplifiers in the design of Public Addressing System and Generate Sinusoidal wave forms	2020-2021
Electrical Machines-I Lab	B23PC7	able to gaine the knowledge on testing of AC and DC machines and its application in industries to lead	2020-2021
Electrical Circuit Analysis Lab	B23PC8	will able to lern concept of defferent circuit power calculations and reducution methods by using deffrent technics to lead	2020-2021
Electrical Machines-II	B24PC3	able to gain the understanding knowledge of AC & DC machines and speed control methods to apply in domestic applieance and agriculture	2020-2021
Power Systems-I	B25PC1	willl able to Understand various layout of conventional and non conventional energy sources. & Evaluate the various calculations of A.C. and D.C. distribution systems.	2020-2021
Power Electronics	B25PC2	Understand the characteristics and performance of various power electronic devices. & Analyze single and three phase controlled rectifier circuits.	2020-2021
Microprocessors and Micro Controllers	B45PC3	Acquire the knowledge of internal architecture, organization of 8086 and can develop assembly language programming. & Acquire the knowledge of internal architecture, organization of 8051 and can develop assembly language programming.	2020-2021
Electrical Machine Design	B25PE4X	Understand the construction and performance characteristics of electrical machines. & Understand the various factors which influence the design: electrical, magnetic and thermal loading of electrical machines	2020-2021

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Power System Dynamics and Control		Understand the problem of power system stability and its impact on the system. & Analyse linear dynamical systems and use of numerical integration methods	2020-2021
Digital Signal Processing		Calculate time domain and frequency domain of signals using DFS,DFT and develop FFT Algorithm for faster realization of signals and systems & Design digital IIR filters from analog filters using various techniques	2020-2021
Non Conventional Power Generation	Open Elective – I	able to analyze solar, thermal and photovoltaic systems	2020-2021
Power Electronics Lab	B25PC6	Understand the operating principles of various power electronic converters & Use power electronic simulation packages& hardware to develop the power Converters.	2020-2021
Microprocessors and Micro Controllers Lab	B45PC7	Apply the fundamentals of assembly level programming for microprocessors/microcontrollers. Develop programs on a microprocessor using instruction set of 8086	2020-2021
Advanced Communication skills Lab	BE23	Acquire vocabulary and use it contextually & Listen and speak effectively & Develop proficiency in academic reading and writing	2020-2021
Power Systems-II	B26PC1	Understand parameters of various types of transmission lines during different Operating conditions.& Understand the performance of short and medium transmission lines.	2020-2021
Power Semiconductor Drives	A27PC1	Analyze the speed control of DC motors by single phase and three phase converters & Understand the chopper controlled DC drives and four quadrant operation of DC drives.	2020-2021
Power System Operation and control	A27PC2	Understand the economic load dispatch & Analyze the unit commitment problems, constraints and hydrothermal scheduling of power Plants	2020-2021
Advanced Control systems	Open elective-III	gain the knowledge of Lypunov stability, linear and nonlinear continous time autonomus systems	2020-2021
Switch Mode Power Supply	A27PE4X	Analyze various modes of operation of basic Dc-Dc converter circuits& Understand the concept of different isolated SMPS circuits.	2020-2021
Electrical Distribution Systems		Understand the general concepts of distribution system and the design of feeders & Analyze the location and different parameters of substations	2020-2021
Embeded Systems		Understand and design real time and non real time embedded systems & Define the unique design challenges of real-time systems and programthem.	2020-2021
Special Machines	A27PE5X	Understand the special type of DC machines & Understand the working of hybrid stepper motor and analyze its configurations.	2020-2021
Advanced Power Electronics		Understand various high power semiconductor devices such as SCR, TRIAC, DIAC, IGBT, GTO etc. Compare different PWM techniques used for inverters.	2020-2021
Digital Control Systems		Understand the fundamentals of digital control systems and Z transform.& Understand the Z transform analysis and stability analysis.	2020-2021

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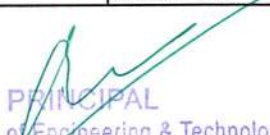Medbowli, Meerpet, Hyderabad- 500097,

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
VLSI Design	A27PE6X	Understand the fabrication process of integrated circuit using MOS transistors & Analyze VLSI circuit design processes.	2020-2021
Utilization of Electric Power		Understand the electric drives and types of loads. & Understands the concepts and methods of electric heating and welding.& Analyze the various illumination methods.	2020-2021
Programmable Logic Controllers		Understand the purpose, functions, and basic operations of a PLC & Apply programming knowledge on Programmable Logic Controllers	2020-2021
Electrical Systems Simulation Lab	A27PC7	Design and Analyze electrical systems in time and frequency domain & Analyze various transmission lines and perform fault analysis	2020-2021
Electrical Workshop	A27PC8	able to learn design of capacitors , inductors and three point stator for power applications	2020-2021
Industry Oriented Mini project	A27PW9	design and devloping a prototype circuits to	2020-2021
Smart Electric Grid	A28PE2X	able to to develop new grid technologies	2020-2021
Artificial Neural Networks and Fuzzy Systems		able to gain knowledge of design of different artificial intelligent techniques to test	2020-2021
Flexible AC Transmission Systems		Acquire knowledge of AC control systems using STATCOM and UPQC devices and learn their control methodologies to mitigate reactive power	2020-2021
Power Quality	A28PE3X	able to gain knowledge of quality of different electrical appliance and obtian knowledge of electromagnetic conduction and induction	2020-2021
Solar Photovoltaic Systems		Develop the different photovoltaic models and converters to track maximum voltage using different methodologies lead to emloyability	2020-2021
EHV AC Transmission Systems		Gain the knowledge of designing Exrta High AC Voltage systems and testing the systems lead to	2020-2021
Seminar	A28SC4	Gain skill of communication skills and leadingship qualities	2020-2021
Project Work	A28PW5	gain the knowledge of designing and developing of electrical and electronic circuits which can be applied on systems to develop a new prototype	2020-2021
Comprehensive Viva Voce	A28CV6	able to face the technical interviews will lead to	2020-2021
Linear Algebra & Applied Calculus	CBSM7	The ideas of probability and random variables and various discrete probability distribution and their properties.	2020-2021
Engineering Physics	CBSP3	To analyse the applications of interference, diffraction and polarization phenomena	2020-2021
C Programming for Problem Solving	CESCP1	To ability to write structured programs using control structures and functions	2020-2021
Engineering Graphics	CESEG1	To draw various curves and show dimensions as per BIS standards	2020-2021
Engineering Physics Lab	CBSP4	To design and analyze experiments and result	2020-2021
C Programming for Problem Solving Lab	CESCP2	To ability to write structured programs using control structures and functions	2020-2021
Fuels & Lubricants Lab	CESFL	To analyse the flash points of given fuels.	2020-2021

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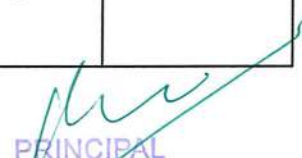Medbowli, Meerpet, Hyderabad- 500097.

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Differential Equations & Vector Calculus	CBSM16	The ideas of probability and random variables and various discrete probability distribution and their properties.	2020-2021
Engineering Chemistry	CBSC3	To predict the chemical reactions in different environmental conditions on engineering works.	2020-2021
Engineering Mechanics	CESEM1	To find the location of centroid and calculate moment of inertia of a given section	2020-2021
English	CHSE1	To neutraliz accent for intelligibility	2020-2021
Engineering Workshop	CESEW2	To design and model various basic prototypes in the trade of fitting such as Straight and L fit	2020-2021
Engineering Chemistry Lab	CBSC4	To predict the chemical reactions in different environmental conditions on engineering works	2020-2021
English Language & Communication Skills Lab	CHSE2	To neutraliz accent for intelligibility	2020-2021
Design of Machine members-I	B35PC1	To analyze failure theories for machine members under steady loads	2020-2021
Thermal Engineering-I	B35PC2	To evaluate the functionality of the major components of the IC Engines	2020-2021
Machine tools	B35PC3	To analyze the working of lathe	2020-2021
Automobile Engineering	B35PC4	To apply the basic automobile concepts to Emission controls for Automobiles	2020-2021
Fundamentals of Management	B35HS5	To identify requirements of quality improvement programs	2020-2021
Professional Elective-II : Finite Element Methods	B35PE6	To apply FE method for solving field problems	2020-2021
Thermal engineering Lab	B35PC7	To understand the working of a Boiler	2020-2021
Machine tools lab	B35PC8	To analyze the working of shaper	2020-2021
Engineering Metrology Lab.	B35PC9	To apply the techniques to minimize the errors in measurement	2020-2021
Operations Research	A37PC1	To analyze the competitive situations in business organizations to find the optimal strategies	2020-2021
Power Plant Engineering	A37PC2	To propose suitable power plant as per the requirement of industry	2020-2021
CAD/CAM	A37PC3	To design how to use drafting and modeling methods in CAD/CAM fields	2020-2021
Professional Elective - 1:Welding Technology	A37PC4	To understand the various gas welding techniques	2020-2021
Professional Elective- 2: Production Planning and Control	A37PE5	To analyze the objectives and functions of production planning and control	2020-2021
Professional Elective- 3 :Automation in Manufacturing	A37PE6	To evaluate the basic concepts of automation in machine tools	2020-2021
CAD and CAM lab	A37PC8	To apply the knowledge of surface and sheet metal working operations	2020-2021
Production Drawing Practice and Instrumentation lab	A37PC9	To convert machine drawings into production drawings	2020-2021

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Professional Elective-3:Total Quality Management	A38PE2	To identify requirements of quality improvement programs	2020-2021
Professional Elective-4:Renewable energy sources	A38PE3	To analyse the working principle of various energy systems	2020-2021
Industry Oriented Mini Project	A38MP4	To design and development of a mechanical system	2020-2021
Seminar	A38SR5	To study and will be able to clearly state a problem	2020-2021
Project Work	A38PW6	To make students to understand the concepts of Project Work by developing a prototype/experimental work	2020-2021
Comprehensive Viva	A38CV7	To make students to understand the concepts all subjects	2020-2021
Linear Algebra Calculus & Ordinary Differential Equations	CBSM13	Will apply the concept of differential equation to real world problems	2020-2021
Applied Physics	CBSP1	To apply the knowledge of LEDs and Solarcells	2020-2021
Electronic Devices	CESED1	To gain the knowledge in the all electronic components	2020-2021
C Programming for Problem Solving	CESCP1	Apply the knowledge on to design and test programs to solve mathematical and scientific problems	2020-2021
Basic Electrical Engineering	CESBE2	Will apply the concept of AC and Dc circuits	2020-2021
Electromagnetic Theory And Transmission Lines	B45PC1	To gain the knowledge on EM waves and Transmission lines	2020-2021
VLSI Design	B45PC2	To learn the concept of drawing the layout of any logic circuit	2020-2021
Digital Signal Processing	B45PC3	To gain the knowledge on DFT & FFT algorithms, Multi-rate signal processing techniques	2020-2021
Digital Communications	B45PC4	To gain the knowledge on various digital modulation techniques	2020-2021
Antennas and Wave Propagation	B46PC1	To learn the concepts of different Antennas	2020-2021
Microprocessors and Microcontrollers	B46PC2	Acquire the knowledge of Advanced ARM processors	2020-2021
Image Processing and Pattern Recognition	B46PE4-II	Ability to apply computer algorithms to practical problems	2020-2021
Microwave Engineering	A47PC1	To learn the concept of various microwave components	2020-2021
Telecommunication Switching Systems and Networks	A47PE2-I	Gain the knowledge on data communication networks	2020-2021
Cellular and Mobile Communications	A47PE3-I	Understands Cellular concept, Frequency reuse, Handoff strategies	2020-2021
Electronic Measurements and Instrumentation	A47PE3-II	To gain the knowledge on different electronic Instruments	2020-2021
Information Theory And Coding	A47PE3-III	Understand the concept of information and entropy	2020-2021
CMOS Analog Integrated Design	A47PE5-I	To Understand how to design operational amplifiers	2020-2021
CMOS Digital Integrated Design	A47PE5-II	Implement efficient techniques at circuit level for improving power and speed	2020-2021

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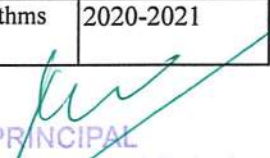Medbowli, Meerpet, Hyderabad- 500097,

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Management Science	A47HS6	Evolve a strategy for a business or service organization	2020-2021
Embedded Systems Design	A48PE1-II	Gain the knowledge on real time operating systems in Embedded systems	2020-2021
Satellite Communications	A48PE1-III	Understand the GPS for satellite communication systems	2020-2021
Optical Communications	A48PE1-I	Understand and analyze the constructional parameters of optical fibres	2020-2021
Wireless Communications and Networks	A48PE1-II	Understand fundamentals of wireless networking	2020-2021
Principles of Electronic Communications	A48PE1-III	Able to use the communication modules in implementation	2020-2021
Engineering Graphics	CESEG1	learn to find the position of object with respect to quadrant system and construct the projections for points, lines and planes	2020-2021
C Programming for Problem Solving	CESCP1	gains the ability to develop c Programs for various applications	2020-2021
English Language & Communication Skills Lab	CHSE2	will learn to communicate confidently in various contexts and different clultures	2020-2021
C Programming for Problem Solving Lab	CESCP2	will gain knowledge how to solve scientific problems using c Programming syntax	2020-2021
IT Workshop	CESIT1	will acquire the knowledge of creating standard documents and research documents using latex, create project plans	2020-2021
Logic Circuits Design	CESLC1	will gain knowledge on how to design sequential and combinational circiuts	2020-2021
Database Management Systems	C53PC1	will gain knowledge to imply transaction mangement and concurrency control	2020-2021
Data Structures	C53PC2	will learn to design programs using a variety of data structures like graphs, trees	2020-2021
Operating Systems	C53PC3	will gain knowledge on how to schedule and synchronize processes	2020-2021
Logic Circuits Design Lab	CESLC2	will learn to apply digital gates to design combinational and sequential circuits	2020-2021
Database Management Systems Lab	C53PC4	will learn to apply normalization techniques while designing a database	2020-2021
Data Structures Lab	C53PC5	will learn how to use appropriate data structures for writing programs using c++	2020-2021
Computer Organization & Architecture	C54PC1	will gain knowledge how to solve computer arithmetic operations	2020-2021
Object Oriented Programming through Java	C54PC5	will learn how to develop GUI based applications, web based applications using applets	2020-2021
Object Oriented Programming through Java Lab	C54PC6	will learn to write programs using java collection frame work and abstract classes for problems	2020-2021
Computer Organization & Architecture Lab	C54PC7	learns to design and develop solutions for problems using assembly language programming	2020-2021
Design and Analysis of Algorithms Lab	C54PC8	learns to analyze the asymptotic perfromance of algorithms	2020-2021

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Fundamentals of Management	BHSFM	will gain knowledge on decision making, how to resolve issues in corportae organizations.	2020-2021
Business Economics and Financial Analysis	CHSM1	will learn how to predict the financial position by analyzing the financial statement of the company through various ratios	2020-2021
Operating Systems	B55PC2	will know how to apply various mechanism to detect and recovery the deadlocks and demonstrate various memory management strategies	2020-2021
Computer Networks	B55PC3	will learn to construct error free data link layer	2020-2021
Web Technologies	B55PC6	Develop real time applications using JSP	2020-2021
Operating Systems Lab	B55PC7	will learn the techniques of file allocation and file organization	2020-2021
Computer Networks Lab	B55PC8	will learn how to implement. framing methods in data link layer, CRC polynomials	2020-2021
Web Technologies Lab	B55PC9	will learn how to develop web applications using HTML, JAVA SCRIPT	2020-2021
R Programming	B56PC4	will gain knowledge how to analyze statistical data	2020-2021
R Programming Lab	B56PC7	will gain knowledge how to analyze statistical data	2020-2021
Data Warehousing and Data Mining	B56PC5	will learn to design the approaches for handling large data with reference to data models.	2020-2021
Data Warehousing and Data Mining Lab	B56PC8	will learn to perform data mining tasks using data mining tool kit	2020-2021
Object Oriented Analysis and Design	B56PC6	will gain knowledge how to use basic structural modelling concepts, different system behavioral modelling	2020-2021
Object Oriented Analysis and Design Lab	B56PC9	will learn how to write programs using abstract class	2020-2021
Complier Design	B56PC3	will gain insights on various phases of compiler	2020-2021
Language Processor Lab	B56PC10	to provide understanding of the language translation pecularities by designing a complete translator for a mini language	2020-2021
Linux Programming	A57PC2	will learn to use Linux utilities effectively and able to write shell scripting	2020-2021
Machine Learning	A57PC3	will gain knowledge how to apply decision trees learning concepts and evaluate hypothesis for the machine learning problems	2020-2021
Linux Programming Lab	A57PC8	will learn to apply the knowledge of using socket for devloping client-server communications	2020-2021
Cutting Edge Technologies Lab	A57PE8	will learn to apply the concepts of Machine Learning and Internet of Things	2020-2021
Linear Algebra & Graph Theory	CBSM2	Demonstrate linear equations, orthogonal transformations and graph	2020-2021
English	CHSE1	Develop reading and writing skills	2020-2021
Chemistry	CBSC7	Analyze Chemical reactions	2020-2021
Engineering Graphics	CESEG1	Draw 3D view	2020-2021
C Programming for Problem Solving	CESCP1	Develop Knowledge in Computer Programming	2020-2021

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
English Language & Communication Skills Lab	CHSE2	Develop Spoken skills	2020-2021
Chemistry Lab	CBSC8	Predict the chemical reactions	2020-2021
C Programming for Problem Solving Lab	CESCP2	Develop Programming skills	2020-2021
Ordinary Differential Equations & Vector Calculus	CBSM1	Analyze and solve linear differential equations	2020-2021
Applied Physics	CBSP1	Demonstrate LEDs, diode lasers, photo detectors and solar cells	2020-2021
Basic Electrical Engineering	CESBE2	Analyze electrical circuits, Machines and Transformers	2020-2021
Semi-Conductor Devices & Circuits	CESSD1	Analyze the dc bias, AC to DC Voltages, Transistor, FET,MOS	2020-2021
Applied Physics Lab	CBSP2	Design and Analyze experiments.	2020-2021
Basic Electrical & Simulation Lab	CESBE4	Analyze electrical circuits	2020-2021
Semi-Conductor Devices & Circuits Lab	CESSD2	Analyze Electronic Circuits	2020-2021
IT Workshop	CESIT1	Develop Presentations, Documents, Spread Sheets	2020-2021
Operating Systems	B65PC1	Demonstrate virtual memory, memory management techniques	2020-2021
Computer Networks	B65PC2	Demonstrate Networking concepts	2020-2021
Data Warehousing & Data Mining	B65PC3	Analyze preprocessing of data & mining	2020-2021
Design and Analysis of Algorithms	B65PC4	Analyze the performance of algorithms	2020-2021
Fundamentals Of Management	BHSFM	Demonstrate Planning, Managing, Organizing and Leading	2020-2021
Linux Programming	B65PC6	Develop skills in Linux OS	2020-2021
Operating Systems and Computer Networks lab	B65PC7	Develop skills in routing algorithms, Scheduling algorithms and Encryption algorithms	2020-2021
Linux Programming Lab	B65PC8	Operate Linux operating system	2020-2021
Artificial Intelligence	B65MC1	Simulation of human intelligence processes by machines	2020-2021
Web Technologies	B66PC1	Create Dynamic web pages	2020-2021
Object Oriented Analysis & Design	B66PC2	Apply UML diagrams	2020-2021
Compiler Design	B66PC3	Demonstrate LL and LR parsers, code optimization	2020-2021
Software Project Management	B66PE4	Demonstrate planning, tracking and completion of project	2020-2021
O.E – I	B66OE5	Acquire knowledge in inter disciplinary of electronic communications	2020-2021
O.E – II	B66OE6	Acquire knowledge in inter disciplinary of electronic communications	2020-2021
Web Technologies Lab	B66PC7	Develop web Applications	2020-2021
Case Tools Lab	B66PC8	Apply UML diagrams	2020-2021
Cyber Security	B66MC2	Gain knowledge on Threats	2020-2021

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Data Warehousing & Data Mining	A67PC1	Demonstrate classification, regression, clustering, association mining	2020-2021
Linux Programming	A67PC2	Analyze commands, shell scripts, IPC, Pipes, messages, shared memory	2020-2021
Python Programming	A67PC3	Develop code in Python using lists, arrays, GUI's	2020-2021
Open Elective-III	OE203	Demonstrate user interaction methods	2020-2021
Human ComputerInteraction	A67PE5	Demonstrate user interaction methods	2020-2021
DistributedDatabase	A67PE6	Managing data in distributed systems	2020-2021
SoftwareProcess AndProjectManage ment	A67PE7	Design framework for software process assessment	2020-2021
Data Warehousing & Data Mining Lab	A67PC7	Demonstrate the classification clusters in large datasets	2020-2021
Linux Lab	A67PC8	Develop Skills in Linux OS	2020-2021
Python Programming Lab	A67PC9	Develop skills in Python Programming	2020-2021
Internet Of Things	A68PE1	Develop IOT web application	2020-2021
PredictiveAnalytics	A68PE2	Identify and analyze the learning and decision trees.	2020-2021
Open Elective-IV	OE204	Acquire knowledge in inter disciplinary of electronic communications	2020-2021
Industry Oriented Mini Project	A68PW4	Develop Projects on simple Domain	2020-2021
Seminars	A68SE5	Providing an opportunity to explore a topic in depth	2020-2021
Comprehensive Viva	A68CV6	Test the overall knowledge of the student in the relevant Subjects	2020-2021
Major Project	A68PW7	Develop Projects	2020-2021
Linear Algebra & Graph Theory	CBSM2	Analytical thinking and problem-solving, ability to apply mathematical concepts to real-world situations	2020-2021
English	CHSE1	communicate confidently in various contexts and different cultures	2020-2021
Chemistry	CBSC7	develop problem-solving, critical thinking, and analytical skills,	2020-2021
Engineering Graphics	CESEG1	to draw lines, curves and show dimensions as per BIS standards and develop 3D solids and to able to visualize the object in simple	2020-2021
C Programming for Problem solving	CESCP1	Gain knowledge in using C language for solving real world problems	2020-2021
English Language & Communication Skills Lab	CHSE2	improve the speaker's ability to communicate effectively with people from different regions and cultures.	2020-2021
Chemistry Lab	CBSC8	The course enables students to utilize characterization techniques to determine the quality of materials and the damage mechanism in engineering applications."	2020-2021
C Programming for Problem solving Lab	CESCP2	the ability to design and test programs to solve mathematical and scientific problems, and the ability to write structured programs using control structures and functions	2020-2021
Sports	MC001	Solve higher order differential equation and apply the concept of differential equation to real world problems.	2020-2021

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Ordinary Differential Equations & Vector Calculus	CBSM1	require knowledge of the working principles of optoelectronic devices such as LEDs, diode lasers, photo detectors, and solar cells.	2020-2021
Applied Physics	CBSP1	Analyze and evaluate electrical circuits using various theorems	2020-2021
Basic Electrical Engineering	CESBE2	the ability to design, analyze, and troubleshoot circuits involving semiconductor materials, PN junctions, diodes, transistors, FETs, MOS, and dc bias circuitry of BJT.	2020-2021
Semi-Conductor Devices & Circuits	CESSD1	Analytical thinking and problem-solving skills, which are required to compare and correlate theory with experimental results.	2020-2021
Applied Physics Lab	CBSP2	The ability to effectively apply electrical principles and techniques to solve complex problems, such as analyzing electrical networks, evaluating the performance of electrical machines, and understanding and analyzing electrical installations using various methods and techniques	2020-2021
Basic Electrical & Simulation Lab	CESBE4	the ability to design electronic circuits for various applications using devices like Diodes, Transistors, etc	2020-2021
Semi-Conductor Devices & Circuits Lab	CESSD2	Troubleshoot and solve computer-related problems	2020-2021
IT Workshop	CESIT1	Analytical thinking and problem-solving, ability to apply mathematical concepts to real-world situations	2020-2021
C Programming for Problem Solving	CESCP1	Gain knowledge in using C language for solving problems .	2020-2021
English Language & Communication Skills Lab	CHSE2	To improve speaking skills with clarity and confidence, which in turn enhances skills,	2020-2021
C Programming for Problem Solving Lab	CESCP2	The best way to improve your programming skills is to practice writing programs. Start with simple programs and gradually move on to more complex ones.	2020-2021
IT Workshop	CESIT1	To assemble a computer, you need to have a basic understanding of the hardware components of a computer, including the motherboard, CPU, RAM, storage drives, power supply, and cooling system .	2020-2021
CROSS CULTURAL MANAGEMENT	C141OE6D	to learn the importance of culture and values in conducting business	2020-2021
MARKETING RESEARCH	C142OE7	sand Enterprenuershiptoanalyse markets and customer driven strategies for business development	2020-2021
SDA LAB	C142PC8	to apply statistical tools to a research problem	2020-2021
Business Law and Environment	C141PC5	and Enterprenuershipto learn business laws for incorporation and doing business inIndia	2020-2021
Business Communication Lab.	C141PC7	and Enterprenuership to analyse the importance of the communication in business and its application. .	2020-2021
Human Resource Management	C142PC1	and Enterprenuership to manage the human resources of an organisation	2020-2021
Marketing Management	C142PC2	and Enterprenuershiptoanalyse markets and customer driven strategies for business development	2020-2021

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Financial Management	C142PC3	and Enterprenuershipto understand the utilisation of financial resources in a corporate	2020-2021
Entrepreneurship	C142PC6	To analyse the opportunity as an entrepreneur and to fill the gap in market needs	2020-2021
Data Analytics	C143PC3	Application of Analytical tools to solve business problems	2020-2021
Leadership and Change Management	C144PE3-H2	learn the leader traits and styles to mange change in organisations	2020-2021
International Human Resource Management	C144PE2-H1	learn the leader traits and styles to mange change in organisations	2020-2021
International Financial Management	C144PE2-F1	to understand the utilisation of financial resources globally	2020-2021
Family Business Management	C143PE6-E3	to understand the significance of family owned businesses for achieving competitive advantage	2020-2021
Basic Electrical Engineering	BBSBE	Understand and analyze DC, AC and magnetic circuits using basic principles	2019-2020
Engineering Graphics	BBSEG	Preparing working drawings; understand and interpret engineering drawings	2019-2020
Engineering Physics Lab	BP112	To make the students gain practical knowledge to co-relate with the theoretical studies	2019-2020
Professional Communication Language Lab	BE22	Use English Language effect, communicate confidently in various contexts and different cultures	2019-2020
Basic Electrical Engineering Lab	BBEEL2	Understand and analyze electrical installations and to evaluate the performance of DC machines and single phase transformer .	2019-2020
Engineering Workshop	BBSEW	To identify and apply suitable tools for different trades of Engineering processes .	2019-2020
Computer Programming using C	BBSCP	To Gain knowledge in using C language for solving problems	2019-2020
Fundamentals of mechanical Engineering	BBSFE	To understand the significance of mechanical engineering in different Fields of engineering .	2019-2020
Engineering Chemistry Lab	BCH2	Determination of physical properties, parameters & estimation of rate constant of a reaction .	2019-2020
Computer Programming using C Lab	BCPL2	It enables the students to write structured programs using control structures and functions .	2019-2020
CAD Lab	BBSCL	To prepare the drawings effectively and accurately digitally using less time .	2019-2020
Building Materials, Construction & Planning	B13PC1	To develop an understanding of, and ability to, solve practical engineering problems .	2019-2020
Surveying & Geomatics	B13PC2	To enable the student to understand laws of fluid mechanics and evaluate pressure, velocity and acceleration fields for various fluid flows	2019-2020
Strength of Materials -I	B13PC3	to identify various building materials required for good quality construction .	2019-2020
Fluid Mechanics	B13PC4	To demonstrate the basic principles in the area of strength and mechanics of materials and structural analysis through a series of experiments .	2019-2020

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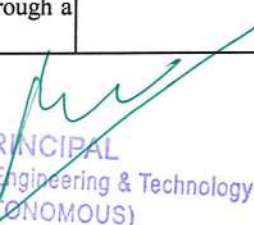(AUTONOMOUS)
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TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
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NAAC

1.1.3. Average percentage of courses having focus on employability/ entrepreneurship/ offered by the institution during the last five years

Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Surveying Lab-I	B13PC6	Gains professional training on 2D & 3D drafting of civil engineering drawings .	2019-2020
Strength of Materials Lab	B13PC7	Will be able to use and predict results of the basic instruments such as chain, compass, etc.;	2019-2020
Computer Aided Design Lab-II	B13PC8	To develop students' sensibility with regard to issues of gender	2019-2020
Strength of Materials –II	B14PC2	Determine stresses in the member subjected to Torsion,direct and bending stresses ,analyze columns and struts .	2019-2020
Hydraulics & Hydraulic Machinery	B14PC3	To understand the concepts of channel flows, Compute flow profiles in channel transitions .	2019-2020
Structural Analysis -I	B14PC4	Ability to analyse the determinate and indeterminate structures .	2019-2020
Soil Mechanics	B14PC5	To analyse the indeterminate structures and adopt an appropriate structural analysis technique .	2019-2020
Surveying Lab-II	B14PC7	To gain the practical understanding on various fluid flows .	2019-2020
Fluid Mechanics Lab	B14PC8	To gain the practical usage of advance surveying equipments such as Tacheometer, Total station	2019-2020
Engineering Geology Lab	B14PC9	To identify the various rocks&minerals .	2019-2020
Concrete Technology	A15PC1	able to understand durability requirements of concrete	2019-2020
Design of Reinforced Concrete Structures	A15PC2	To understand the chanracteristics and design of various concrete mix .	2019-2020
Water Resources Engineering-I	A15PC3	To able to design the structural RC components of structure .	2019-2020
Transportation Engineering	A15PC4	To understand and gain knowledge on rainfall measurement, collection and its preservance for future use .	2019-2020
Construction Equipment and Materials PE-I	A15PE6	To understand the Various Management Functions and to explore the Management Practices .	2019-2020
Concrete Technology Lab	A15PC7	To practically determine the fresh and hardened properties of concrete mix .	2019-2020
Computer Aided Drafting - II Lab	A15PC8	To understand different types of data representations in GIS .	2019-2020
Hydraulics and Hydraulic Machinery Lab	A15PC9	To Compute drag coefficients and testing the performance of pumps and turbines .	2019-2020
Professional Ethics	A15MC5	To have a basic sense on ethical behaviour which represents one individual .	2019-2020
Design of Steel Structures	A16PC1	To design the various steel structural members using codal provisions .	2019-2020
Soil Mechanics	A16PC3	To have a idea on properties of soil and its analysis using various means .	2019-2020
Ground water development and management	A16PE5	Practically gains the knowledge on determination of various soil properties .	2019-2020
Ground improvement techniques	A16PE6	To draw the various Civil Engineering drawingsand Reinforcement detailing using CAAD software .	2019-2020
Soil Mechanics Lab	A16PC7	Enables to advance in communication and behaviour in various fields .	2019-2020

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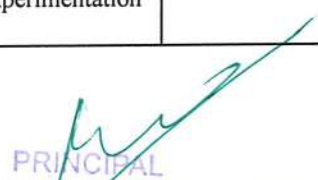Medbowli, Meerpet, Hyderabad- 500097.

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Geographic Information Systems Lab	A16PC8	Gains knowledge on GIS and its application in various fields .	2019-2020
Advanced English Communication Skills Lab	A16PC9	To get a basic idea and design of railways, airways and waterways .	2019-2020
Transportation Engineering	CE701PC	Enables to determine the quantities and rates of various ciil engineering works .	2019-2020
Estimation Quantity Surveying and Valuation	CE702PC	Ability to desing the various irrigation structures such as canals, dams and weirs .	2019-2020
Watershed Management	CE731PE	Delineate and map the watershed's boundaries and the smaller drainage basins within the watershed	2019-2020
Traffic Engineering	CE741PE	imparts knowledge on traffic conditions	2019-2020
Transportation Engineering Lab	CE703PC	To conduct the tests on materials used for constructing highway .	2019-2020
Environmental Engineering Lab	CE704PC	To determine the various properties of drinking water and sewage .	2019-2020
Seminar	CE706PC	Effective presentation to improve soft skills	2019-2020
Waste Management PE-V	CE851PE	To design and analyse the PSC structural members .	2019-2020
Finite element methods for civil engineering PE -VI	CE861PE	To manage the strategic and responsibilities of management .	2019-2020
Power Semiconductor Drives	EE701PC	learn to analyze and implement of various types of convetrer for industrial application	2019-2020
Electrical Measurements & Instrumentation	A25PC1	learn to implement various testing on equipments and to find the parameters	2019-2020
Microprocessors and Microcontrollers	A25PC3	gain the knowledge of coding used to design electronic circuits and to control the devices	2019-2020
Basic Electrical simulation Lab	A25PC8	able to learn the characteristics of electrical devices and machines that can be applied to develop new circuits and appliances	2019-2020
Microprocessors and Microcontrollers Lab	A25PC9	Gain the knowledge of coding skills on different micorcontrollers and microporcessers that can be applied to control the electrical and elctronics devices	2019-2020
Power Electronics	A26PC2	able to develop converters such as DC-DC converters, inverters and battery management system	2019-2020
Switch Gear and Protection	A26PC3	Gain the knowledge of relays and protection equipments and digital processors	2019-2020
Design of Electrical Machines	A26PE5	Able to analyze the magnetic theory using vector analysis and by understanding the maxwell equation will anlyze machines flux generation	2019-2020
Electromagnetic Fields	B23PC5	Gain the knowledge of developing various controllers and testing the controller stability using Rootlocus, bode plot and using state space anlysis will anlayze the parameter variation lead to	2019-2020
Control Systems	B24PC4	able to implement stability anlysis on systems and process of control system using simulation studies and experimentation	2019-2020

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Control Systems Lab	B24PC8	learn to analyze and implement of various types of convetrer for industrial application	2019-2020
Engineering Mathematics-I	BBSM1	To reduce the quadratic form to canonical form using orthogonal transformations.	2019-2020
Engineering Physics	BBSP1	To analyse the applications of interference, diffraction and polarization phenomena	2019-2020
Professional Communication Language	BHSEN	To comprehend the given texts and respond appropriately	2019-2020
Basic Electrical Engineering	BBSBE	To evaluate the characteristics and performance of Electrical Machines and Transformers	2019-2020
Engineering Graphics	BBSEG	To draw various curves and show dimensions as per BIS standards	2019-2020
Engineering Physics Lab	BP112	To apply appropriate techniques to perform the experiments	2019-2020
Professional Communication Language Lab	BE22	To communicate confidently in various contexts and different cultures	2019-2020
Basic Electrical Engineering Lab	BBEEL2	To analyze AC circuits using basic principles	2019-2020
Engineering Workshop	BBSEW	Ability to design and model various basic prototypes in the trade of Welding	2019-2020
Engineering Mathematics–II	BBSM2	To compute derivatives of vector valued functions, gradient functions	2019-2020
Engineering Chemistry	BBSC1	To analuse the characterization techniques in determining the quality of material and the corrosion mechanism of engineering works	2019-2020
Computer Programming using C	BBSCP	To draw flow charts for solving problems	2019-2020
Engineering Mechanics	BESEM	To find the location of centroid and calculate moment of inertia of a given section	2019-2020
Fundamental of Mechanical Engineering	BBSFE	To understand and appreciate significance of mechanical engineering in different Fields of engineering	2019-2020
Engineering Chemistry Lab	BCH2	To utilize the characterization techniques in determining the quality of material and the corrosion mechanism of engineering works	2019-2020
Computer Programming using C Lab	BCPL2	to write structured programs using control structures and functions	2019-2020
Fuels and Lubricants Lab	BFLL1	To analyse the various fuels and lubricants properties	2019-2020
Probability and Statistics	BBSM3	To calculate Mean and Proportion and to make impotent decisions from few samples which are taken from unmanageable huge populations	2019-2020
Thermodynamics	B33ES1	To analyse the differentiate between different thermodynamic systems and processes	2019-2020
Kinematics of Machinery	B33PC2	To analyse various mechanisms and their inversions	2019-2020
Metallurgy and Material Science	B33PC3	To analyse the relationship and properties of different alloys	2019-2020

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Mechanics of Solids	B33PC4	To apply the knowledge of materials and structural elements to analys the simple structures	2019-2020
Metallurgy and Material Science Lab	B33PC5	To analyse the concepts of Metallurgy and Material Science role in all manufacturing processes	2019-2020
Mechanics of Solids Lab	B33PC6	To analyse the various crystal structures	2019-2020
Kinematics and Dynamics Lab	B33PC7	To analyze forces and torques of components inlinkages	2019-2020
Dynamics of Machinery	B34PC1	To evaluate the significance of balancing moving parts	2019-2020
Fluid Mechanics and Hydraulic Machines	B34PC2	To analyze an appropriate turbine with reference to given situation in powerplants	2019-2020
Machine Drawing	B34ES3	To develop assembly drawings by using part drawings of machine components	2019-20
Professional Elective-I : Manufacturing Process	B34PE4	To evaluate different foundry techniques and methods of melting process	2019-20
Open Elective -I : Non Destructive Testing methods	B34OE5	To analyse the various Non Destructive Testing methods	2019-20
Numerical Methods	BBSM6	To solve the problems using numerical differentiation	2019-20
Fluid Mechanics and Hydraulic Machines Lab	B34PC7	To estimate performance parameters of a given Centrifugal and Reciprocating pump	2019-20
Manufacturing Process Lab	B34PC8	To design and develop patterns for casting processes	2019-20
Design of Machine members-1	A35PC1	To analyze failure theories for machine members under steady loads	2019-20
Thermal Engineering-1	A35PC2	To analyse the functionality of the major components of the IC Engines	2019-20
Metrology and Machine tools	A35PC3	To examine speed and feed mechanisms of machine tools	2019-20
Fundamentals of Management	A35MS4	To evaluate the principles of condition based maintenance	2019-20
Professional Elective-1 : IC Engine and Gas Turbines	A35PE6	How to develop suitable fuels to reduce the emissions	2019-20
Thermal engineering Lab	A35PC7	To analyze the air compressor characteristics	2019-20
Machine tools lab	A35PC8	To estimate machining times for machining operations on machine tools	2019-20
Engineering Metrology Lab	A35PC9	To apply the techniques to minimize the errors in measurement.	2019-20
Thermal Engineering-II	A36PC1	To compare the different types of steam nozzles in the industry	2019-20
Design of machine members - II	A36PC2	To analyze failure theories for machine members	2019-20
Heat Transfer	A36PC3	To evaluate steady and transient heat conduction in one dimension	2019-20
Professional Elective-2 :Refrigeration and Air Conditioning	A36PE5	To develop the principles and practice of thermal comfort.	2019-20
Professional Elective-3 : Non Destructive Testing	A36PE6	To apply the knowledge of various methods for Repair and Non-destructive testing for composite materials	2019-20

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Heat transfer Lab	A36PC7	To analyse the phenomena of drop and film wise condensation	2019-20
CADD and MAT lab	A36PC8	To develop 2D and 3D models using modeling softwares	2019-20
Advanced English Communications skill lab	A36HS9	To acquire basic proficiency in English including reading and listening comprehension	2019-20
CAD/CAM	ME701PC	To apply the knowledge of surface and sheet metal working operations in Practice	2019-20
Instrumentation and Control System	ME702PC	To analyze the instruments to measure displacement	2019-20
Professional Elective - II:Power Plant Engineering	ME723PE	To analyse the concepts of diesel plant and gas turbine plant	2019-20
Professional Elective - III: Robotics	ME733PE	To analyse the design and working of the various components of Robot	2019-20
Professional Elective - IV: Turbo Machines	ME742PE	Apply knowledge of Turbo machines to optimize the efficiencies of turbines.	2019-20
CAD/CAM Lab	ME703PC	To design ans analyse a part or assembly of parts using related software	2019-20
Instrumentation and Control Systems Lab	ME704PC	To calibrate of flow measurement by rotameter	2019-20
Industry Oriented Mini Project	ME705PC	To understand the baisc practical knowledge in industry	2019-20
Seminar	ME706PC	To learn and improve the presentation skills	2019-20
Professional Elective - V: Production Planning and Control	ME854PE	To identify the problem and data collection and procedure for reliability	2019-20
Professional Elective - VI: Automobile Engineering	ME861PE	Analyze the working of various components of the automobile Electrical System and Transmission System	2019-20
Major Project	ME801PC	To learn to develop a prototype by suitable testings	2019-20
Engineering Mathematics-I	BBSM1	To be able to solve system equations, orthogonal functions, series and integrals	2019-2020
Electronics Devices and Circuits	BBSED	Acquires the knowledge in semiconductor materials, Transistor, FET, MOS, BJT	2019-2020
Computer Programming using C	DBSCP	To Gain knowledge in using C language for solving problems	2019-2020
Basic Electrical Engineering	BBSBE	Able to understand the applications of various electrical installations	2019-2020
Digital Logic Design	B43ES2	Ability to design logic circuits	2019-2020
Analog Electronic Circuit Analysis	B43EC3	Ability to design and analyze amplifier circuits	2019-2020
Signals and Systems	B43EC4	Ability to analyze various signals in time and frequency domain	2019-2020
Pulse and Digital Circuits	B43EC5	To be able to Design Multi vibrators for various applications, Synchronization techniques and sweep circuits	2019-2020
Analog Communications	B44PC3	To Analyze and design various noises in analog systems	2019-2020
Linear and Digital IC Applications	B44PC4	To gain knowledge on different families of Digital Integrated Circuits and their Characteristics	2019-2020

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Electromagnetic Theory and Transmission Lines	A45PC1	To gain the knowledge to analyze the electric fields due to different charge distributions and analyze the electric fields in different mediums	2019-2020
Fundamentals of Management	A45PC4	To understand The various Management Functions like Planning, Organizing, Staffing, Leading, Motivation and Control aspects	2019-2020
Digital Design Using Verilog HDL	A45PE6	To Interpret and Implement designs using the advanced features of Verilog HDL and be able to write code effectively	2019-2020
Digital Image Processing	A46PE2	To Acquire the knowledge of ARM Processors	2019-2020
Digital System Design	A46PE2	Acquire knowledge on various types of continuous and discrete time signals	2019-2020
VLSI Design	A46PE3	To acquire knowledge on Digital image fundamentals and Image Transforms	2019-2020
Microprocessors and Microcontrollers	A46PC5	To exposes the design approaches using ROM's, PAL's and PLA's. To provide in depth understanding of Fault models	2019-2020
Digital Signal Processing	A46PC6	Design sub systems like data, control and memory modules.	2019-2020
Microwave Engineering	EC701PC	Gets familiarized with the rectangular waveguides, their mode characteristics, and design waveguides for solving practical microwave transmission line problems	2019-2020
Wireless Communications and Networks	EC731PE	To Demonstrate wireless Local and Wide area networks and their specifications	2019-2020
Radar Systems	EC733PE	To analyze functioning of CW, FM-CW and MTI radars and various tracking methods	2019-2020
Embedded Sytem Design	EC734PE	To understand the selection procedure of Processors in the embedded domain	2019-2020
Global Positioning System	EC863PE	Demonstrate the ability to understand the constructional parameters of an optical system and design the constructional parameters of an optical system	2019-2020
Optical Communications	EC853PE	To analyze satellites and signal structures used in the GPS system	2019-2020
Probability & Statistics	BBSM3	learn to implement statistics applications in real time	2019-2020
Data Structures	B53PC2	learn to analyze and implement various kinds of searching and sorting techniques	2019-2020
Digital Logic Design	B53PC3	learn to design sequential,combinational logic circuits	2019-2020
Object Oriented Programming	B53PC4	Learn to write different applications using java	2019-2020
Digital Logic Design lab	B53PC5	Practically analyze by connecting different circuits	2019-2020
Data Structures Lab	B53PC6	Execute the programs and analyze time complexity and space complexity of different algorithms	2019-2020
Advanced Communication Skills Lab	BE23	To improve the communication skills and ascent	2019-2020
Object Oriented Programming Lab	B53PC7	Learn coding skills by writing different applicatins using swings,applets,packages	2019-2020

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
IT Workshop	BITW1	Learn to create documents,balance sheets,presentations and database creation	2019-2020
Discrete Mathematics	BBSM5	Learn CNF,DJNF to apply relative proportions in the real world problems	2019-2020
Computer Organization	B54PC2	Learn to understand the design of computer architecture and organization	2019-2020
Python Programming	B54PC3	Learn to write primitive applications using python	2019-2020
Database Management System	B54PC4	Learn to design database as back end for projects	2019-2020
Software Engineering	B54PC5	learn to design and develop procedure of projects with different paradigms	2019-2020
Python Programming Lab	B54PC6	Execute the primitive programs using python	2019-2020
Database Management System Lab	B54PC7	Learn to design the tables and normalize the relations with different forms	2019-2020
Software Engineering lab	B54PC8	Learn to undestnd the design of UML diagrams	2019-2020
Computer Networks	A55PC1	Learn to understand the network topologies with various routing mechanisms	2019-2020
Principles of Programming Languages	A55PC2	Learn to understand with different programming methodologies	2019-2020
Design and Analysis of Algorithms	A55PC3	Analyze different algorithms with time complexity and space complexity	2019-2020
Compiler Design	A55PC4	Learn to design compiler with different mechanisms	2019-2020
Software Engineering	A55PE5X	learn to design and develop procedure of projects with different paradigms	2019-2020
Computer Graphics		Learn to design graphics with different algorithms	2019-2020
Image Processing and Pattern Recognition		Analyze different pattern recognition techniques	2019-2020
Computer Networking Lab	A55PC6	Design and implement different network topologies	2019-2020
Compiler Design Lab	A55PC7	Design and implement compiler with different techniques	2019-2020
Advanced Communication Skills Lab	A55HS8	To improve the communication skills and ascent	2019-2020
Web Technologies	A56PC1	Learn to develop web pages with different programming constructs	2019-2020
Data Warehousing and Data Mining	A56PC2	Learn to create datawarehouse and mine the data from datawarehouse with different algorithms	2019-2020
Object Oriented Analysis and Design	A56PC3	Learn to design UML diagrams	2019-2020
Introduction to Analytics.	A56PE4X	Learn to analyze R programming construsts	2019-2020
Information Security & Management		Learn to manage information with security constraints	2019-2020
Cloud Computing		Learn to store and retrieve the files from cloud	2019-2020
Software Testing	A56PE5X	Learn to test manual and automation testing	2019-2020
Artificial Intelligence		Learn to apply different AI algorithms in real time scenario	2019-2020
Semantic Web and Social Networks		Learn to provide security for social networks	2019-2020

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Technical Skills Enhancement Lab	A56PC7	Lean and execute different application programs with new technologies	2019-2020
Case Tools and Web Technologies Lab	A56PC8	To design UML diagrams	2019-2020
Data Warehousing and Data Mining Lab	A56PC9	Learn to create datawarehouse and mine the data from datawarehouse with different algorithms	2019-2020
Data Mining	CS701PC	Learn to retrieve the data from datawarehouse with different techniques	2019-2020
Principles of Programming Languages	CS702PC	Learn to understand with different programming methodologies	2019-2020
Data Mining Lab	CS703PC	Learn to retrieve the data from datawarehouse with different techniques	2019-2020
PE-II Lab # Python Programming Lab	CS751PC	Execute the primitive programs using python	2019-2020
Mobile Application Development Lab	CS752PC	Learn to design mobile applications	2019-2020
Linux programming Lab	CS753PC	Learn to implement message queues,semaphores and pipes in IPC	2019-2020
R Programming Lab	CS754PC	Learn to analyze R programming construsts	2019-2020
Internet of Things Lab	CS755PC	Learn to establish communication between sensors and actuators	2019-2020
Industry Oriented Mini Project	CS705PC	To expertize In developing the projects	2019-2020
Seminar	CS706PC	To improve communication skills using presentation	2019-2020
Major Project	CS801PC	Employablity Will learn to find solutions by developing prototype models for the drawbacks in various designs across algorithms developed for solving real time problems.	2019-2020
Engineering Graphics	BBSEG	Draw 3D view Pictures	2019-2020
Engineering Workshop	BBSEW	Practice on machine tools and their operations	2019-2020
Basic Electrical Engineering	BBSBE	Analyze electrical circuits, Machines and Transformers	2019-2020
Basic Electrical Engineering Lab	BBEEL2	Analyze electrical installations	2019-2020
Computer Programming using C	BBSCP	Develop Knowledge in Computer Programming	2019-2020
Computer Programming using C Lab	BCPL2	Develop Programming skills	2019-2020
Data Structures	B63PC1	Analyze data structures for solving real world problems	2019-2020
Digital Logic Design	B63PC2	Analyze complete circuits to build larger complex circuits	2019-2020
Object Oriented Programming	B63PC3	Design GUI based applications	2019-2020
Introduction to Analytics	B63PC4	Learn R- language, summarize the data and analyze the regressions	2019-2020
Data Structures Lab	B63PC5	Apply data structures for solving real world problems	2019-2020
Object Oriented Programming Lab	B63PC6	Develop GUI programs	2019-2020
Digital Logic Design Lab	B63PC7	Apply complete circuits to build larger complex circuits	2019-2020

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Computer Organization	B64PC2	Demonstrate RAM, ROM, 8086...	2019-2020
Database Management Systems	B64PC3	Apply Normal forms, Data Recovery techniques	2019-2020
Software Engineering	B64PC4	Develop, maintain, efficient, reliable and cost effective software solutions	2019-2020
Formal Language & Automata Theory	B64PC5	Demonstrate Finite Automata, CFG, PDA.	2019-2020
Database Management System Lab	B64PC6	Analyze normalization & Develop programs using PL/SQL	2019-2020
Software Engineering Lab	B64PC7	develop, maintain, efficient, reliable and cost effective software solutions	2019-2020
IT Workshop	BITW1	Develop Presentations, Documents, Spread Sheets	2019-2020
Design and Analysis of Algorithms	A65PC1	Analyze the performance of the algorithms	2019-2020
Data Communication & Computer Networks	A65PC2	Demonstrate Communications and Networking concepts	2019-2020
Software Engineering	A65PC3	develop, maintain, efficient, reliable and cost effective software solutions	2019-2020
Fundamentals of Management	A65HS4	Demonstrate Planning, Managing, Organizing and Leading	2019-2020
DistributedSystems	A65PE6	Managing data in distributed systems	2019-2020
Design and Analysis of Algorithms Lab	A65PC7	Analyze the performance of the algorithms	2019-2020
Computer Networks Lab	A65PC8	Demonstrate Networking concepts	2019-2020
Software Engineering Lab	A65PC9	develop, maintain, efficient, reliable and cost effective software solutions	2019-2020
Compiler Design	A66PC1	Demonstrate LL and LR parsers, code optimization	2019-2020
Web Technologies	A66PC2	Create Dynamic web pages	2019-2020
Cryptography and Network Security	A66PC3	Analyze security for data	2019-2020
MobileComputing	A66PE5	Develop new ad hoc network applications	2019-2020
Object Oriented Analysis andDesign	A66PE6	Design using UML diagrams	2019-2020
Advanced Communication Skills Lab	A66HS7	Develop communication skills	2019-2020
Web Technologies Lab	A66PC8	Develop web Applications	2019-2020
Cryptography and Network Security Lab	A66PC9	Apply security and cryptography	2019-2020
Data Mining	CS701PC	Apply data mining methods	2019-2020
Android Application Development	IT702PC	Design Software to mobile devices	2019-2020
Python Programming	CS721PE	Develop code in Python using lists, arrays, GUI's	2019-2020
Software Process and Project Management	CS734PE	Demonstrate planning, tracking and completion of project	2019-2020
Social Network Analysis	CS744PE	Analyze social networking concepts	2019-2020

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Android Application Development Lab	IT703PC	Develop Software to mobile devices	2019-2020
Python Programming LAB	CS751PC	Develop skills in Python Programming	2019-2020
Industry Oriented Mini Project	IT705PC	Develop Projects	2019-2020
Seminar	IT706PC	Providing an opportunity to explore a topic in depth	2019-2020
Real-Time Systems	CS751PC	Develop real time applications	2019-2020
Human Computer Interaction	IT863PE	Design user interaction techniques	2019-2020
Total Quality Management	ME831OE	Analyze supply chain management	2019-2020
Major Project	IT801PC	Develop Projects	2019-2020
INNOVATION MANAGEMENT	B143PC2	ENTERPRENUERSHIP 1 : to analyse the technology impact on innovation and upgrade knowledge	2019-2020
INDIAN ETHOS AND MANAGEMENT	B143OE3D	to gain human values and be little sensible to commence business as future managers.	2019-2020
COMPUTING SKILLS	B144OE2	to make the students learn computing skills which can be used in business	2019-2020
enterprenuership	B141PC6	enterprenuership Application of marketing tools and models for enterprise	2019-2020
Business Communication - Lab	B141PC7	and Enterprenuership to analyse the importance of the communication in business and its application.	2019-2020
Start up Management	B143PE4	to gain knowledge on legal and other requirements for new ventures	2019-2020
Financial Institutions, Markets & Services	B143PE5	to learn about financial and security markets in India	2019-2020
Strategic Investment and Financing Decisions	B144PE4	: to learn strategic investment decisions and techniques to avoid risk	2019-2020
Leadership and Change Management	B144PE4	and enterprenuership to learn leadership styles in organizational change	2019-2020
Entrepreneurial Marketing	B144PE4	enterprenuership Application of marketing tools and models for enterprise	2019-2020
Creativity Innovation and	B144PE5	enterprenuershipto gain knowledge and implement creativity and innovations management strategies in an enterprise	2019-2020
MSME Management	B143PE5	enterprenuership acquire knowledge on Govt intitiatives and other institutions support for the growth of MSME	2019-2020
Business Economics	B141PC2	and enterprenuership to forecast demand and supply and production cost estimates in businese	2019-2020
Professional Communication Language	BHSEN	Acquires basic proficiency in English including reading and listening comprehension, writing and speaking skills	2018-2019
Basic Electrical Engineering	BBSBE	Understand and analyze DC, AC and magnetic circuits using basic principles	2018-2019
Engineering Graphics	BBSEG	Preparing working drawings; understand and interpret engineering drawings	2018-2019
Engineering Physics Lab	BP112	To make the students gain practical knowledge to co-relate with the theoretical studies	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Professional Communication Language Lab	BE22	Use English Language effect, communicate confidently in various contexts and different cultures	2018-2019
Basic Electrical Engineering Lab	BBEEL2	Understand and analyze electrical installations and to evaluate the performance of DC machines and single phase transformer .	2018-2019
Engineering Workshop	BBSEW	To identify and apply suitable tools for different trades of Engineering processes .	2018-2019
Computer Programming using C	BBSCP	To Gain knowledge in using C language for solving problems	2018-2019
Fundamentals of mechanical Engineering	BBSFE	To understand the significance of mechanical engineering in different Fields of engineering .	2018-2019
Engineering Chemistry Lab	BCH2	Determination of physical properties, parameters & estimation of rate constant of a reaction .	2018-2019
Computer Programming using C Lab	BCPL2	It enables the students to write structured programs using control structures and functions .	2018-2019
CAD Lab	BBSCL	To prepare the drawings effectively and accurately digitally using less time .	2018-2019
Strength of Materials	A13PC2	To develop an understanding of, and ability to, solve practical engineering problems .	2018-2019
Fluid Mechanics	A13PC3	To enable the student to understand laws of fluid mechanics and evaluate pressure, velocity and acceleration fields for various fluid flows .	2018-2019
Building Materials Construction and Planning	A13PC4	to identify various building materials required for good quality construction .	2018-2019
Strength of Materials Lab	A13PC6	To demonstrate the basic principles in the area of strength and mechanics of materials and structural analysis through a series of experiments .	2018-2019
Computer Aided Design Lab	A13PC7	Gains professional training on 2D & 3D drafting of civil engineering drawings .	2018-2019
Surveying-I Lab	A13PC8	Will be able to use and predict results of the basic instruments such as chain, compass, etc.;	2018-2019
*Gender Sensitization Lab	A13MC3	To develop students' sensibility with regard to issues of gender	2018-2019
Strength of Materials -II	A14PC1	Determine stresses in the member subjected to Torsion,direct and bending stresses ,analyze columns and struts .	2018-2019
Fluid Mechanics-II	A14PC2	To understand the concepts of channel flows, Compute flow profiles in channel transitions .	2018-2019
Structural Analysis	A14PC3	Ability to analyse the determinate and indeterminate structures .	2018-2019
Business Economics and Financial Analysis	A14HS5	To analyse the indeterminate structures and adopt an appropriate structural analysis technique .	2018-2019
Fluid Mechanics Lab	A14PC6	To gain the practical understanding on various fluid flows .	2018-2019
Surveying II Lab	A14PC7	To gain the practical usage of advance surveying equipments such as Tacheometer, Total station	2018-2019
Engineering Geology Lab	A14PC8	To identify the various rocks&minerals .	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
*Environment Science and Technology	A14MC4	to identify and eliminate various forms of pollution that impact the environment	2018-2019
Concrete Technology	CE501PC	To understand the chanracteristics and design of various concrete mix .	2018-2019
Design of Reinforced Concrete Structures	CE502PC	To able to design the structural RC components of structure .	2018-2019
Water Resources Engineering	CE503PC	To understand and gain knowledge on rainfall measurement, collection and its preservance for future use .	2018-2019
Fundamentals of Management	SM504MS	To understand the Various Management Functions and to explore the Management Practices .	2018-2019
Concrete Technology Lab	CE505PC	To practically determine the fresh and hardened properties of concrete mix .	2018-2019
Geographical Information Systems Lab	CE506PC	To understand different types of data representations in GIS .	2018-2019
Hydraulics and Hydraulic Machinery Lab	CE507PC	To Compute drag coefficients and testing the performance of pumps and turbines .	2018-2019
Professional Ethics	MC500HS	To have a basic sense on ethical behaviour which represents one individual .	2018-2019
Design of Steel Structures	CE601PC	To design the various steel structural members using codal provisions .	2018-2019
Soil Mechanics	CE603PC	To have a idea on properties of soil and its analysis using various means .	2018-2019
Soil Mechanics Lab	CE604PC	Practically gains the knowledge on determination of various soil properties .	2018-2019
Computer Aided Drafting Lab-II	CE605PC	To draw the various Civil Engineering drawingsand Reinforcement detailing using CAAD software .	2018-2019
Advanced English Communication Skills Lab	EN606HS	Enables to advance in communication and behaviour in various fields .	2018-2019
Remote Sensing & GIS	A70140	Gains knowledge on GIS and its application in various fields .	2018-2019
Transportation Engineering -II	A70143	To get a basic idea and design of railways, airways and waterways .	2018-2019
Estimating & Costing	A70138	Enables to determine the quantities and rates of various ciil engineering works .	2018-2019
Water Resources Engineering-II	A70133	Ability to desing the various irrigation structures such as canals, dams and weirs .	2018-2019
Finite Element Methods Elective-II	A70330	method for numerically solving differential equations arising in engineering and mathematical modeling	2018-2019
Advanced structural design Elective-III	A70135	good analytical and problem-solving skills to design and analyse structural members	2018-2019
Concrete & Highway Materials Lab	A70195	To conduct the tests on materials used for constructing highway .	2018-2019
Environmental Engineering Lab	A70192	To determine the various properties of drinking water and sewage .	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Rehabilitation and Retrofitting of structures Elective-IV	A80151	technique required to meet the present needs – being sensitive to building features and a sympathetic matching of the original construction	2018-2019
Prestressed Concrete Structures	A80150	To design and analyse the PSC structural members .	2018-2019
Construction Management	A80146	To manage the strategic and responsibilities of management .	2018-2019
Electrical Machines-I	C23PC3	gain the knowledge to design AC & DC machines for toy application	2018-2019
Electro Magnetic Fields	C23PC4	able to learn static and magnitic field to apply in inductrial machines and power sector application	2018-2019
Control Systems	C24PC3	apply design technique to find accability of controller	2018-2019
Electrical Machines-II	C24PC2	gain the knowledge of AC & DC machines and their characteristics to apply in domestic applieance and agriculture	2018-2019
Electrical Measurements & Instrumentation	EE501PC	learn to measure power and uses of meters in industrial power sector	2018-2019
Electrical workshop	EE506PC	Will learn to simulation model of electrical machines, transmission model , which is leading to	2018-2019
Engineering Mathematics-I	BBSM1	To evaluation of double integrals	2018-2019
Engineering Physics	BBSP1	To evaluate the working of different types of lasers and fiber optic cables	2018-2019
Professional Communication Language	BHSEN	To communicate confidently in various contexts and different cultures	2018-2019
Basic Electrical Engineering	BBSBE	To acquire knowledge about various configurations for electrical installations and its applications	2018-2019
Engineering Graphics	BBSEG	To construct Top View, Front View and Side View for a given three-dimensional object	2018-2019
Engineering Physics Lab	BP112	To analyse the physics behind various mechanical waves	2018-2019
Professional Communication Language Lab	BE22	To acquire basic proficiency in English including reading, writing and speaking skills	2018-2019
Basic Electrical Engineering Lab	BBEEL2	To apply various devices to real time problems	2018-2019
Engineering Workshop	BBSEW	Ability to perform various basic House Wiring techniques	2018-2019
Engineering Mathematics–II	BBSM2	To apply the methods to solve PDE of linear and non-linear	2018-2019
Engineering Chemistry	BBSC1	To utilize the characterization techniques in determining the quality of material	2018-2019
Computer Programming using C	BBSCP	To draw flow charts for solving problems	2018-2019
Engineering Mechanics	BESEM	To analyze the motion and calculate trajectory characteristics.	2018-2019
Fundamental of Mechanical Engineering	BBSFE	To understand and analyse the fundamentals of basic mechanical systems	2018-2019
Engineering Chemistry Lab	BCH2	To understanding the hardness and importance of water quality for engineering and day to day life.	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Computer Programming using C Lab	BCPL2	To design, develop and test programs to solve mathematical and scientific problems	2018-2019
Fuels and Lubricants Lab	BFLL1	To analyse the flash and fire points of a given fuel	2018-2019
Mathematics – IV	A33BS1	To analyse the complex functions with reference to their analyticity	2018-2019
Thermodynamics	A33PC2	To evaluate the laws of Thermodynamics to different types of systems	2018-2019
Kinematics of Machinery	A33PC3	To design and evaluate various steering gear mechanisms	2018-2019
Metallurgy and Material Science	A33PC4	To describe the concept of strengthening mechanisms in steels	2018-2019
Mechanics of Solids	A33PC5	To understand the behavior of the solid bodies subjected to different loading	2018-2019
Fuels and Lubricants Lab	A33PC6	To analyse various fuels characteristics	2018-2019
Mechanics of Solids Lab	A33PC7	To analyse the various material characteristics under tensile loading	2018-2019
Metallurgy and Material Science Lab	A33PC8	To analyse the various material characteristics	2018-2019
Gender Sensitization Lab	A33MC9	To attain a finer grasp of how gender discrimination works in our society and how to counter it.	2018-2019
Dynamics of Machinery	A34PC1	To analyze the effect of gyroscopic couples on moving bodies	2018-2019
Fluid Mechanics and Hydraulic Machines	A34PC2	To identify the types of fluid properties and flow patterns to describe continuity equation.	2018-2019
Machine Drawing	A34ES3	To develop assembly drawings by using part drawings of machine components	2018-2019
Manufacturing Process	A34ES4	To analyse the various hot and cold forming processes	2018-2019
Business Economics and Financial Analysis	A34HS5	To evaluate basic management principles	2018-2019
Kinematics and Dynamics Lab	A34PC6	To analyze the various forces and torques of components in linkages	2018-2019
Fluid Mechanics and Hydraulic Machines Lab	A34PC7	To identify type of fluid flow patterns and describe continuity equation	2018-2019
Manufacturing Process Lab	A34ES8	To fabricate the joints using arc welding process	2018-2019
Environmental Science and Technology	A34MC9	To gain knowledge about environment and ecosystem	2018-2019
Design of Machine Members - I	ME501PC	To design the selected machine elements for various applications	2018-2019
Thermal Engineering-I	ME502PC	To evaluate the performance of IC engines	2018-2019
Metrology and Machine Tools	ME503PC	To examine speed and feed mechanisms of machine tools	2018-2019
Fundamentals of Management	SM504MS	To demonstrate the roles, skills and functions of management.	2018-2019
Thermal Engineering Lab	ME505PC	To evaluate engine friction by conducting morse test on 4-strokemulti cylinder diesel engine	2018-2019
Machine Tools Lab	ME506PC	To analyse the concept of Limits, fits and tolerances	2018-2019
Engineering Metrology Lab	ME507PC	To learn the methods of Measurement of flat surfaces	2018-2019

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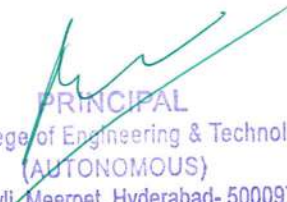| Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Thermal Engineering –II	ME601PC	To analyse the functions, applications of Nozzles	2018-2019
Design of Machine Members-II	ME602PC	To evaluate the design criteria for sliding contact and rolling contact bearings.	2018-2019
Heat Transfer	ME603PC	To evaluate free convection heat transfer, condensation and heat exchangers	2018-2019
Professional Elective - I: Refrigeration and Air Conditioning	ME612PE	To analyze the refrigeration and air conditioning systems	2018-2019
Heat Transfer Lab	ME604PC	To Learn fundamentals in element of Heat Transfer	2018-2019
CADD and MATLAB	ME605PC	To analyse the basic concepts about CAD/CAM	2018-2019
Advanced English Communication Skills Lab	EN606HS	To communicate confidently in various contexts	2018-2019
Operations Research	A70352	To get the basic knowledge of Linear Programming and its applications	2018-2019
Power Plant Engineering	A70353	To analyse the concepts of diesel plant and gas turbine plant	2018-2019
CAD/CAM	A70328	To learn importance of group technology	2018-2019
Instrumentation and Control Systems	A70343	To analyze the basic characteristic of a typical instrument	2018-2019
Elective-I : Robotics	A70355	To evaluate the various features of Trajectory planning for avoidance of obstacles	2018-2019
Elective-II : Unconventional Machining Processes	A70359	To estimate the material removal rate and cutting force, in an industrially useful manner, for practical machining processes	2018-2019
Computer Aided Design & Manufacturing Lab	A70390	To learn the softwares and equipments associated with CAD/CAM	2018-2019
Production Drawing Practice and Instrumentation Lab	A70391	To understanding the various surface treatment symbols used and assembly production drawings of simple components	2018-2019
Production Planning and Control	A80366	To analyze the objectives and functions of production planning and control	2018-2019
Elective-III : Plant Layout & Material Handling	A80365	To analyse the various types of layouts	2018-2019
Elective-IV : Renewable Energy Sources	A80324	To outline utilization of renewable energy sources for both domestic and industrial applications	2018-2019
Industry Oriented Mini Project	A80087	To understand the basic knowledge of equipments and their applications	2018-2019
Seminar	A80089	To improve the presentation and write-up skills	2018-2019
Project Work	A80088	To gain the knowledge of experimental work	2018-2019
Comprehensive Viva	A80090	To understand the basics of all mechanical engineering subjects	2018-2019
Engineering Mathematics-I	BBSM1	Analyses the solution of the system equations, analyses sequence and series, solves double & triple integration	2018-2019
Electronics Devices and Circuits	BBSED	Acquires the knowledge in semiconductor materials and knows the complete internal structure of PN junction its capacitances, resistances & different types of diodes including their modes of operation	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Computer Programming using C	DBSCP	Code a given logic in C programming language for solving problems	2018-2019
Basic Electrical Engineering	BBSBE	Gains knowledge on DC, AC and magnetic circuits using basic principles of DC machines and transformers	2018-2019
Analog Electronics	A43PC2	Gains knowledge in design and analyzes small signal amplifier circuits, Power and Tuned Amplifiers	2018-2019
Electrical Technology	A43PC3	Gains knowledge on dc generators and motors, transformers, three phase induction motor	2018-2019
Signals and Stochastic Process	A43PC4	Gains knowledge of Analog or Digital time domain signal in frequency domain also Random Process and its Characteristics	2018-2019
Switching Theory and Logic Design	A44PC1	Gains knowledge to manipulate simple Boolean expressions using the theorems and postulates of Boolean algebra and to minimize combinational functions	2018-2019
Analog Communications	A44PC4	Gains knowledge on the Design of multi-vibrators for various applications, synchronization techniques and sweep circuits	2018-2019
Pulse and Digital Circuits	A44PC2	Able to analyze and design various modulation and demodulation analog systems, Multiplexing	2018-2019
Digital Image Processing	EC612PE	Understands the significance of Management Functions like Planning, Organizing, Staffing, Leading, Motivation and Control aspects	2018-2019
Digital System Design	EC614PE	Gains knowledge on Digital image processing techniques such as filtering, transforms, morphology and image compression	2018-2019
Microprocessors and Microcontrollers	EC602PC	Gains knowledge of digital logic circuits, state model approach using programmable logic devices	2018-2019
Digital Signal Processing	EC603PC	Applies knowledge on operations of microprocessors and micro controllers, and interfacing techniques	2018-2019
Fundamentals of Management	SM504MS	Gains knowledge in analysis and processing of digital signals using various transformations like DFT,DFS,DTFT,FFT	2018-2019
Cellular and Mobile Communications	A70434	Understand the significance of microwaves and microwave transmission lines	2018-2019
Optical Communications	A70444	Understands concepts of frequency management, Channel assignment and types of handoffs	2018-2019
Embedded Systems Design	A70440	Estimate the losses due to attenuation, absorption, scattering and bending	2018-2019
Microwave Engineering	A70442	Understand embedded firmware design approaches	2018-2019
Satellite Communications	A80452	Understand the frequency allocation for satellite communication	2018-2019
Telecommunication Switching Systems and Networks	A80431	Analyze and evaluate fundamental telecommunication traffic models	2018-2019
Radar Systems	A80450	Understand radar fundamentals and analysis of the radar signals	2018-2019

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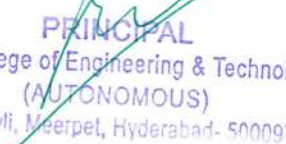Medbowli, Meerpet, Hyderabad- 500097.

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Wireless Communications and Networks	A80454	Analyze various multiple access schemes used in wireless communication	2018-2019
Digital Signal Processors and Architectures	A80437	Can interface various devices to DSP Processors	2018-2019
Engineering Mathematics-I	BBSM1	applying maths to complex real-world problems; combining mathematical theory, practical engineering and scientific computing to address today's technological challenges.	2018-2019
Applied Physics-I	BBSP2	use of elecricity and magnetism for lighting and propulsion, given birth to the semiconductor industry that has provided us with the conveniences of modern electronics, and played an important part in the development of biomedical technology	2018-2019
Engineering Chemistry	BBSC1	Learn to prepare different compositions with different carbon compounds	2018-2019
Electronics Devices and Circuits	BBSED	Learn the primitive structures of devices and circuits of electronics	2018-2019
Computer Programming using C	DBSCP	learns to design and test programs to solve mathematical and scientific problems	2018-2019
Electronics Devices and Circuits Lab	BEDCL2	Learn the primitive structures of devices and circuits of electronics	2018-2019
Computer Programming using C Lab	BCPL2	learns to test programs to solve mathematical and scientific problems	2018-2019
Engineering Chemistry Lab	BCH2	Learn to prepare different compositions with different carbon compounds	2018-2019
Engineering Mathematics-II	BBSM2	Learn to solve different problems in different engineering applications	2018-2019
Applied Physics-II	BBSP3	use of elecricity and magnetism for lighting and propulsion, given birth to the semiconductor industry that has provided us with the conveniences of modern electronics, and played an important part in the development of biomedical technology	2018-2019
Professional Communication Language	BHSEN	learns to communicate confidently in various contexts and different clusters.	2018-2019
Basic Electrical Engineering	BBSBE	Analyze electrical circuits, Machines and Transformers	2018-2019
Engineering Graphics	BBSEG	will learn to apply 3D techniques for understanding internal consturction details and visualize the objects	2018-2019
Applied Physics Lab	BP113	use of elecricity and magnetism for lighting and propulsion, given birth to the semiconductor industry that has provided us with the conveniences of modern electronics, and	2018-2019
Professional Communication Language Lab	BE22	To improve the communication skills and ascent	2018-2019
Engineering Workshop	BBSEW	Demonstrate and their usage of different tools,which are used in real time scenario	2018-2019
Basic Electrical Engineering Lab	BBEEL2	Learn the voltage and power consumption strategies in different circuits with different theorems	2018-2019

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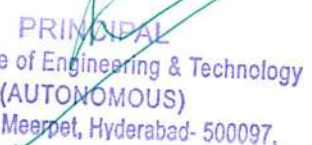Medbowli, Meerpet, Hyderabad- 500097,

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Mathematics – IV	A53HS1	Learn to apply different mathematical methods in real time engineering applications	2018-2019
Data Structures through C++	A53PC2	Analyze data structures for solving real world problems	2018-2019
Mathematical Foundations of Computer Science	A53PC3	Learn CNF,DJNF to apply relative proportions in the real world problems	2018-2019
Digital Logic Design	A53PC4	learn to design sequential,combinational logic circuits	2018-2019
Object Oriented Programming through Java	A53PC5	Learn coding skills by writing different applicatins using swings,applets,packages	2018-2019
Data Structures through C++ Lab	A53PC6	learn to analyze and implement various kinds of searching and sorting techniques	2018-2019
IT Workshop	A53PC7	Learn to create documents,balance sheets,presentations and database creation	2018-2019
Java Programming Lab	A53PC8	Learn coding skills by writing different applicatins using swings,applets,packages	2018-2019
Computer Organization	A54PC1	Learn to understand the design of computer architecture and organization	2018-2019
Database Management Systems	A54PC2	Learn to design database as back end for projects	2018-2019
Operating Systems	A54PC3	Learn to increase throughput,efficiency and decrease thrashing in operating systems	2018-2019
Formal Languages and Automata Theory	A54PC4	Design the machines, which accepts the string with deterministic and nodeterminstic in real time scenarion such as escalator	2018-2019
Business Economics and Financial Analysis	A54HS5	Learn to apply the different methods to yield better business outcomes	2018-2019
Computer Organization Lab	A54PC6	Learn and write different programs using assebly language for primitive problems	2018-2019
Database Management Systems Lab	A54PC7	Analyze normalization & Develop programs using PL/SQL	2018-2019
Operating Systems Lab	A54PC8	Learn to increase throughput,efficiency and decrease thrashing in operating systems	2018-2019
Design and Analysis of Algorithms	CS501PC	Analyze different algorithms with time complexity and space complexity	2018-2019
Data Communication and Computer Networks	CS502PC	Learn to understand the network topologies with various routing mechanisms	2018-2019
Software Engineering	CS503PC	learn to design and develop procedure of projects with different paradigms	2018-2019
Fundamentals of Management	SM504MS		2018-2019
Design and Analysis of Algorithms Lab	CS505PC	Analyze different algorithms with time complexity and space complexity	2018-2019
Computer Networks Lab	CS506PC	Learn to understand the network topologies with various routing mechanisms	2018-2019
Software Engineering Lab	CS507PC	learn to design and develop procedure of projects with different paradigms	2018-2019
Compiler Design	CS601PC	Learn to design compiler with different mechanisms	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Web technologies	CS602PC	Learn to develop web pages with different programming constructs	2018-2019
cryptography and network secutity	CS603PC	Learn and understand different primitive algorithms which provide security for information and network	2018-2019
Cryptography and Network Security Lab	CS604PC	Learn and understand different primitive algorithms which provide security for information and network	2018-2019
Web Technologies Lab	CS605PC	Learn to develop web pages with different programming constructs	2018-2019
Advanced English Communication Skills Lab	EN606HS	To improve the communication skills and ascent	2018-2019
Artificial inteligence	A70526	Learn to implement message queues,semaphores and pipes in IPC	2018-2019
Mobile Computing	A70536	Learn and design different projects with different paterns such as creational,behavioural,and structural	2018-2019
Computer Graphics	A70529	Learn to create datawarehouse and mine the data from datawarehouse with different algorithms	2018-2019
Industry Oriented Mini Project	A80087	Learn to store and retrieve the files from cloud	2018-2019
Project Work	A80088	learn to design and develop procedure of projects with different paradigms	2018-2019
Engineering Graphics	BBSEG	Draw 3D view Pictorials	2018-2019
Engineering Workshop	BBSEW	Practice on machine tools and their operations	2018-2019
Basic Electrical Engineering	BBSBE	Analyze electrical circuits, Machines and Transformers	2018-2019
Basic Electrical Engineering Lab	BBEEL2	Analyze electrical installations	2018-2019
Computer Programming Using C	BBSCP	Develop Knowledge in Computer Programming	2018-2019
Computer Programming Using C Lab	BCPL2	Develop C Programming skills	2018-2019
Data Structures through C++	A63PC2	Analyze data structures for solving real world problems	2018-2019
Mathematical Foundations of Computer Science	A63PC3	Apply for problem solving methods	2018-2019
Digital Logic Design	A63PC4	Analyze complete circuits to build larger complex circuits	2018-2019
Object Oriented Programming through Java	A63PC5	Design GUI based applications	2018-2019
Data Structures through C++ Lab	A63PC6	Apply data structures for solving real world problems	2018-2019
IT Workshop	A63PC7	Develop Presentations, Documents, Spread Sheets	2018-2019
Java Programming Lab	A63PC8	Develop GUI programs	2018-2019
Computer Organization	A64PC1	Demonstrate RAM, ROM, 8086...	2018-2019
Database Management Systems	A64PC2	Apply Normal forms, Data Recovery techniques	2018-2019
Operating Systems	A64PC3	Analyze the performance of operating system	2018-2019
Business Economics and Financial Analysis	A64HS5	Develop Business management	2018-2019
Computer Organization Lab	A64PC6	Demonstrate RAM, ROM, 8086...	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Database Management Systems Lab	A64PC7	Analyze normalization & Develop programs using PL/SQL	2018-2019
Operating Systems Lab	A64PC8	Develop skills to operate various operating systems	2018-2019
Design and Analysis of Algorithms	CS501PC	Analyze the performance of the algorithms	2018-2019
Data Communication and Computer Networks	CS502PC	Demonstrate Communications and Networking concepts	2018-2019
Software Engineering	CS503PC	develop, maintain, efficient, reliable and cost effective software solutions	2018-2019
Fundamentals of Management	SM504MS	Demonstrate Planning, Managing, Organizing and Leading	2018-2019
Principles of Electronic Communication	EC511OE	Develop knowledge in electronics	2018-2019
Design and Analysis of Algorithms Lab	CS505PC	Analyze the performance of the algorithms	2018-2019
Computer Networks Lab	CS506PC	Demonstrate Networking concepts	2018-2019
Software Engineering Lab	CS507PC	develop, maintain, efficient, reliable and cost effective software solutions	2018-2019
Compiler Design	CS601PC	Demonstrate LL and LR parsers, code optimization	2018-2019
Web Technologies	CS602PC	Create Dynamic web pages	2018-2019
Cryptography and Network Security	CS603PC	Apply Security algorithms for data	2018-2019
Intellectual Property Rights	CE623OE	Apply legal rights	2018-2019
Object Oriented Analysis and Design	IT612PE	Design UML diagrams for projects	2018-2019
Cryptography and Network Security Lab	CS604PC	Develop security for data	2018-2019
Web Technologies Lab	CS605PC	Develop web Applications	2018-2019
Advanced English Communication Skills Lab	EN606HS	Develop communication skills	2018-2019
Information Security	A70522	analyze threats and attacks	2018-2019
Design Patterns	A70530	Anlayze patterns for problems in design	2018-2019
Mobile Application Development	A70535	Design mobile applications	2018-2019
Information Retrieval Systems	A70533	Analyze data reteieving from collection of data	2018-2019
Big Data Analytics	A70541	Analyze data on various environments.	2018-2019
Human Computer Interaction	A70531	Design user interaction techniques	2018-2019
Case Tools And Software Testing Lab	A70593	Develop for Testing software	2018-2019
Mobile Applications Development Lab	A70597	Develop mobile applications	2018-2019
Management Science	A80014	Demonstrate Planning, Managing, Organizing and Leading	2018-2019
Predictive Analystics	A80551	Apply machine learning for developing business applications	2018-2019

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Storage Area Networks	A80550	Demonstrate to store data in networks	2018-2019
Industry Oriented Mini Project	A80087	Develop Projects	2018-2019
Seminar	A80089	Providing an opportunity to explore a topic in depth	2018-2019
Project Work	A80088	Develop Projects	2018-2019
Comprehensive Viva	A80090	Assess the overall knowledge of the student in the relevant field	2018-2019
Innovation Management	B143PC2	ENTERPRENUERSHIP 1 : to analyse the technology impact on innovation and upgrade knowledge	2018-2019
Indian Ethos And Management	B143OE3D	to gain human values and be little sensible to commence business as future managers. .	2018-2019
Computing Skills	B144OE2	to make the students learn computing skills which can be used in business	2018-2019
Entrepreneurship	B141PC6	to analyse the opportunity as an entrepreneur and to fill the gap in market needs	2018-2019
Business Communication - Lab	B141PC7	and Enterprenuership to analyse the importance of the communication in business and its application.	2018-2019
Start up Management	B143PE4	to gain knowledge on legal and other requirements for new ventures	2018-2019
Financial Institutions, Markets & Services	B143PE5	to learn about financial and security markets in India	2018-2019
Strategic Investment and Financing Decisions	B144PE4	to learn strategic investment decisions and techniques to avoid risk	2018-2019
Leadership and Change Management	B144PE4	and enterprenuership to learn leadership styles in organizational change	2018-2019
Entrepreneurial Marketing	B144PE4	enterprenuership Application of marketing tools and models for enterprise	2018-2019
Creativity Innovation and	B144PE5	enterprenuershipto gain knowledge and implement creativity and innovations management strategies in an enterprise	2018-2019
MSME Management	B143PE5	enterprenuership acquire knowledge on Govt intitiatives and other institutions support for the growth of MSME	2018-2019
Business Economics	B141PC2	and enterprenuership to forecast demand and supply and production cost estimates in businese	2018-2019
Computer Programming in C	A11ES4	It helps in quickly producing your code into machine level code	2017-2018
Engineering Mechanics	A11ES5	EM is the basic domain forIndustry 4.0 geomechanics	2017-2018
Engineering Graphics	A11ES6	Basic graphic forms very important for communication amoung engineers in all fields of technology	2017-2018
Engineering Physics Lab	A11BS7	Gives practice of taking measurements, analyzing data and drawing interferences while students experiment	2017-2018
Computer Programming in C Lab	A11ES8	gives practical knowledge on handling different problems using language C	2017-2018
NSS	AMC01	Develops confident, develop leadership skills and know different people from different walks of life which will lead to suecess path to student	2017-2018

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Professional Communication in English	A12HS4	Makes roles, responsibilities and relationships clear giving everyone the information they need to do their jobs	2017-2018
Basic Electrical & Electronics Engineering	A12ES5	Understand and analyze DC, AC and magnetic circuits using basic principles	2017-2018
Engineering Chemistry Lab	A12BS6	Determination of parameters like hardness, chloride and other properties of water	2017-2018
English Language Communication Skills Lab	A12HS7	Speaking skills with clarity and confidence which in turn enhances their skills	2017-2018
Engineering Workshop	A12ES8	Study and practice on machine tools and their operations for wood, steel and pipe fittings	2017-2018
Strength of Materials - I	CE302ES	Analyse the structural members by calculating stress, strain, slope and deflection calculations	2017-2018
Fluid Mechanics - I	CE303ES	Applyinf laws and equations of fluid flows both in open channel and in pipes	2017-2018
Building Materials, Construction and Planning	CE304ES	Various properties of building construction material and their coonstruction method and resources required	2017-2018
Surveying	CE305ES	Latest tecchnology and knowledge of surveying will enhance the jodbs in the field of surveying	2017-2018
Strength of Material Lab	CE306ES	Various properties of wood/steel/concrete when subjected to loads	2017-2018
Computer Aided Drafting Lab	CE307ES	Aware of using CAD commands for drawing building drawings	2017-2018
Surveying Lab - I	CE308ES	Impart practical knowledge of field survey by chain, tape, compass, theodolite and prepare drawings	2017-2018
Gender Sensitization Lab	*MC300HS	Concept of gender sensitivity is a way to reduce the barriers caused due to discrimination and gender bias	2017-2018
Strength of Material	CE401ES	Will able to analyse behaviour of structure when subjected to various type of loads by bending moments and stresses	2017-2018
Fluid Mechanics	CE402ES	Concepts of water flows	2017-2018
Structural Analysis	CE403ES	Analyse the equilibrium and compatibility for structural members	2017-2018
Business Economic and Financial Analysis	SM405MS	Students will understand the various Forms of Business and the impact of economic variables on the Business. The Demand, Supply, Production, Cost, Market Structure, Pricing aspects are learnt. The Students can study the firm's financial position by analyzing the Financial Statements of a Company	2017-2018
Fluid Mechanics Lab	CE406ES	Know the calibration of various liquid measuring devices like orifice, wear and losses during their transmission	2017-2018
Surveying Lab - II	CE408ES	Know the survey with total station for calculation of area, distances, heights	2017-2018
Engineering Geology Lab	CV407ES	Will able to identify various minerals and rocks	2017-2018
Environmental Science and Technology	*MC400ES	Environmental concerns requires the input of science and technology through measures such as reducing greenhouse gases, conserving biological diversity, providing clean energy and expanding the adoption of green technologies for climate change mitigation	2017-2018

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Concrete Technology	A50116	QC of various concretes and their design, suitable for particular location and structure	2017-2018
Reinforced Concrete Structures Design and Drawing	A50112	Able to design all structures of a building like footings, column, beams and slabs	2017-2018
Engineering Geology	A50118	Make aware of various properties and age of rocks	2017-2018
Geotechnical Engineering	A50120	Exploration of physical properties of minerals, rocks, geological maps	2017-2018
Water Resources Engineering - I	A50122	Design of reservoir, canals, diversion; storage head work	2017-2018
Disaster Management	A50117	Identifying the possible threats or hazards, assessing the probability of their occurrence, their impact on community and laying down measures to reduce the risks or threats	2017-2018
Intellectual Property Rights	A50017	Valuable to entrepreneurs in a variety of ways such as helping develop and refine a product, providing protection for ideas	2017-2018
Human Values and Professional Ethics	A50018	Build credibility, Leadership skills, improves decision making, and provides long term gains	2017-2018
Fluid mechanics and hydraulic machinery lab	A50181	Calculations of discharges through various openings and performance of various turbines	2017-2018
Steel stucture Design and drawing	A60130	In design of plate girders and Roof Trusses	2017-2018
Environmental Engineering	A60119	Will able to analyse characteristics of waste water and sewage system	2017-2018
Transporation Engineering -I	A60132	Can peform design of geometrics of roads, railways and airports	2017-2018
Foundation Engineering	A60126	Provide wast scope in the field of soil exploration, investigation and design of foundations for infra structures	2017-2018
Structural Analysis-II	A60131	Gets opportunities in design of structures	2017-2018
Geotechnical Engineering Lab	A60194	Helps in understanding properties of various soil/rock and their behaviour when subjected to loads	2017-2018
Advanced communication skill lab	A60086	Improves students spoken english and soft skills	2017-2018
Remote Sensing & GIS	A70140	Having skills in map projection and coordinates system in GIS field	2017-2018
Transporation Engineering -II	A70143	Develops expertise qualities in traffic management	2017-2018
Estimating & Costing	A70138	Estimating and costing of different projects give scope for opening new consultancy	2017-2018
Water Resourse Engineering - II	A70133	Provide openings in design of water retainning structures field	2017-2018
Watershed Management Elective II	A70145	Formulates different solution techniques for static loads by FEM techniques	2017-2018
Advanced Structural Engineering Elective III	A70135	Give opportunity in the field to design to design special structures like bridges, dams, water tanks	2017-2018

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Concrete & Highway Materials Lab	A70195	Can distingiush material quality and will help in quality control	2017-2018
Environmental Engineering Lab	A70192	Develops skills for waste water management	2017-2018
Solid Waste Mangement Elective-IV	A80141	By becoming expert in analysing the structure and recommend prevention measures it will make a path for getting structural rectification expert jobs	2017-2018
Construction Management	A80146	Make student aware of resource planning, scheduling and network techniques which help him to open his own consultancy	2017-2018
Prestreesed concrete	A80150	Skil development Helpful to analyse the prestressed concrete structural elements	2017-2018
Power Electronics	A50220	Gain knowledge of desgining the basic converter to modern converters such DC-DC, inverters and cycloconverters	2017-2018
Electrical and Electronics Instrumentation	A60223	gain the knowlede of brides and learn an application meters	2017-2018
Static Drives	A60225	able to control the drive and apply in different applikcations like Electric vehicle and process industrial applications	2017-2018
Control Systems	A50211	will learn to Test system Controllability and Observability using state space representation and to find signal in aero systems.	2017-2018
Digital Signal Processing	A70421	Able to Design digital FIR filters using Window techniques, Fourier methods and frequency sampling techniqueDesign digital FIR filters using Window techniques, Fourier methods and frequency	2017-2018
High Voltage Engineering	A70228	Able to test electrical apparatus and non destructive materials	2017-2018
Mathematics-I	A31BS1	To demonstrate problem Solving for applications of multiple Integrals in solving engineering Problems.	2017-2018
Mathematics-II	A31BS2	To solve higher differential equation	2017-2018
Engineering Physics	A31BS3	To understand the phenomena's exhibited by light and its applications	2017-2018
Computer Programming in C	A31ES4	To demonstrate the basic knowledge of computer hardware and software	2017-2018
Engineering Mechanics	A31ES5	To evaluate the importance of mechanics in the context of engineering and conservation equations	2017-2018
Engineering Graphics	A31ES6	To develop 3D Solids and able to visualize the object in simple and in section	2017-2018
Engineering Physics Lab	A31BS7	To compare the theory and correlate with experiments	2017-2018
Computer Programming in C Lab	A31ES8	To able to write programs using control structures and functions	2017-2018
Applied Physics	A32BS1	To realise the applications of interference and diffraction	2017-2018
Engineering Chemistry	A32BS2	To predict the chemical reactions in different environmental conditions	2017-2018
Mathematics-III	A32BS3	To test the hypothesis and give the inference to the given data	2017-2018

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Professional Communication in English	A32HS4	To improve the language proficiency of students in English	2017-2018
Basic Electrical & Electronics Engineering	A32ES5	To analyze and evaluate electrical circuits using various theorems	2017-2018
Engineering Chemistry Lab	A32BS6	To impart the basic knowledge electrochemistry and corrosion	2017-2018
English Communication Skills Lab	A32HS7	To develop study skills and communication skills in formal and informal situations	2017-2018
Engineering Workshop	A32ES8	To evaluate various basic prototypes in the trade of T in smithy such as rectangular tray, Scoop	2017-2018
Mathematics - IV	MA301BS	To analyse the complex functions	2017-2018
Thermodynamics	ME304ES	To apply the laws of thermodynamics to analyze heat pumps and heat engines	2017-2018
Kinematics of Machinery	ME302ES	To analyse the various steering gear mechanisms	2017-2018
Metallurgy and Material Science	ME305ES	To analyse composite of elements, ceramics and Ferrous and non-ferrous metals	2017-2018
Mechanics of Solids	ME303ES	To analyze the behavior of various types of materials subjected to various types of loading	2017-2018
Thermodynamics Lab	ME306ES	To Observe and analyse the carbon reside for fuels	2017-2018
Mechanics of Solids Lab	ME307ES	Ability to select metals and alloys for industrial applications	2017-2018
Metallurgy and Material Science Lab	ME308ES	To analyse the micro structure of different materials	2017-2018
Dynamics of Machinery	ME403ES	To analyse the balancing of rotating and reciprocating parts of various machines	2017-2018
Fluid Mechanics and Hydraulic Machines	ME401ES	To analyse the boundary layer concepts	2017-2018
Machine Drawing	ME404ES	To make part drawings including sectional views for various machine elements	2017-2018
Manufacturing Process	ME405ES	To analyse the properties of moulding sands and mould making	2017-2018
Business Economic and Financial Analysis	SM405MS	to develop cognizance of the importance of management principles	2017-2018
Kinematics and Dynamics Lab	ME406ES	To apply vector mechanics as a tool for solving kinematic problems	2017-2018
Fluid Mechanics and Hydraulic Machines Lab	ME407ES	To analyse the effect of fluid properties on a flow system.	2017-2018
Manufacturing Process Lab	ME408ES	To fabricate the joints using resistance welding processes	2017-2018
Operations Research	A70352	To evaluate working procedure modeling and implementation of solutions at the workplace	2017-2018
Power Plant Engineering	A70353	To select the suitability of site for a power plant and combustion processes	2017-2018
CAD/CAM	A70328	To learn about the numerical control machining and CNC part programming	2017-2018
Instrumentation and Control Systems	A70343	To apply the concepts of stress strain measurements and humidity measurements	2017-2018

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
ELECTIVE – I:Robotics	A70355	To perform calculations of Robot motion involving forward kinematics, inverse kinematics, Homogeneous transformations etc	2017-2018
ELECTIVE – II:Unconventional: Machining Processes	A70359	To estimate the material removal rate and cutting force, in an industrially useful manner, for practical machining processes	2017-2018
Computer Aided Design & Manufacturing Lab	A70390	To create CNC part programming and perform its manufacturing	2017-2018
Production Drawing Practice and Instrumentation Lab	A70391	To understand and prepare the drawing used in manufacturing process	2017-2018
Production Planning and Control	A80366	To analyze aggregate planning strategies	2017-2018
ELECTIVE – III:Total Quality Management	A80367	To implement the basic principles of TQM in manufacturing and service based organization	2017-2018
ELECTIVE – IV:Renewable Energy Sources	A80324	Capability to carry out basic design of renewable energy systems	2017-2018
Industry Oriented Mini Project	A80087	To understand basic knowledge on a industry	2017-2018
Seminar	A80089	To imrove the skills on basic mechanical engineering and presentation skills	2017-2018
Project Work	A80088	To improve the knowledge in developing prototypes and presentation skills	2017-2018
Comprehensive Viva	A80090	To understand the basic knowledge of all subjects from I yearto final year	2017-2018
Mathematics-I	A41BS1	To build the capability of solving higher differential equations	2017-2018
Computer Programming in C	A42ES4	To analyze circuits using network laws and theorems	2017-2018
Basic Electrical and Electronics Engineering	A41ES6	Gain the knowledge in writing the algorithms for problem solving	2017-2018
Electrical Technology	A41BS1	To build the knowledge in special motors and Electrical Instruments	2017-2018
Signals and Stochastic Process	EC304ES	knowledge can be applied on Linear time Invariant systems	2017-2018
Switching Theory and Logic Design	EC401ES	Analysis of Combinational and Sequential circuits can be done	2017-2018
Pulse and Digital Circuits	EC402ES	Acquiring the knowledge in generating techniques of clock pulse	2017-2018
Analog Communications	A50408	Time and Frequency Domain Techniques can be implemented in analyzing the system	2017-2018
Control Systems	EE404ES	Gain the knowledge in Application of various Modulation and Demodulation techniques	2017-2018
Business Economics and Financial Analysis	SM405MS	Gain the knowledge in Financial statements of a company	2017-2018
Antennas and Wave Propagation	A50418	Gain knowledge in designing the lens structure and bench setup for Antenna measurement	2017-2018

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Electronic Measurements and Instrumentation	A50422	gain knowledge in selection of specific instrument for specific measurement	2017-2018
Linear and Digital IC Applications	A50425	to build the concepts in digital integrated circuits	2017-2018
Managerial Economics and Financial Analysis	A60010	can gain knowledge in the analysis of pricing of market structures & Capital Budgeting	2017-2018
VLSI Design	A60432	To Gain knowledge in designing the hardware for Testability of System	2017-2018
Microprocessors and Microcontrollers	A60430	Acquiring the knowledge of 8051 microcontroller	2017-2018
Digital Signal Processing	A60421	Performance and analysis on Time and Frequency signals	2017-2018
Cellular and Mobile Communications	A70434	Gain the knowledge in co-channel and non Co-channel interferences	2017-2018
Digital Image Processing	A70436	Performance and analysis on Time and Frequency transformation of image	2017-2018
Embedded Systems Design	A70440	To gain the concepts in OS and RTOs	2017-2018
Satellite Communications	A80452	can able to demonstrate Orbital Mechanics	2017-2018
Radar Systems	A80450	Acquire Knowledge in Radar Transmitters and Receivers	2017-2018
Wireless Communications and Networks	A80454	Understand techniques and performance rules of different wireless networks	2017-2018
Mathematics – I	A51BS1	Applying the mathematical concepts to know the consistency and solving the system of linear equations	2017-18
Engineering Physics	A51BS3	Learn to understand various crystal systems and their structures elaborately	2017-18
Engineering Chemistry	A51BS2	Learn to understand the atomic molecular structure of compounds by Spectroscopic techniques	2017-18
Professional communication in English	A51HS4	communicate confidently in formal and informal contexts	2017-18
Engineering Mechanics	A41ES5	learn to resolve the force system in structural constructions	2017-18
Basic Electrical &Electronics Engineering	A51ES6	learn to design different biasing circuits of different semi conductor devices	2017-18
English Language Communication Skills Lab.	A51HS7	To facilitate computer-assisted multi-media instruction enabling individualized and independent language learning and To improve the fluency of students in spoken English and neutralize their mother tongue influence	2017-18
Engineering Workshop	A51ES8	To get training on PC Hardware, Internet & World Wide Web and Productivity tools including Word, Excel and Power Point/To know-how of various hand tools, power tools, machine tools and their use in different sections of manufacturing	2017-18
Engineering physics-II	A52BS1	learn the basic principles and applications of super conductors	2017-18
Mathamatics-II	AS52BS2	To evaluate the line surface and volume integrals and converting them from one to another	2017-18
Mathamatics-III	AS52BS3	To find the intigral values using numerical techniques	2017-18
Computer Programming using C	A52ES4	learns to design and test programs to solve mathematical and scientific problems	2017-18

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Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Engineering Graphics	A52BS5	will learn to apply 3D techniques for understanding internal consturction details and visualize the objects	2017-18
Computer Programming using C Lab	A52ES8	learns to test programs to solve mathematical and scientific problems	2017-18
Data Structures Through C++	CS302ES	To understand the basic concepts such as Abstract Data Types, Linear and Non Linear Data structures and analyze the Performance of algorithms	2017-18
Mathematical Foundations of Computer Science	CS303ES	To relate the ideas of mathematical induction to recursion and recursively defined structures	2017-18
Mathematics-IV	MA301BS	To analyze complex functions with reference to their analycity and intigration	2017-18
Digital Logic Design	CS304ES	To understand the number system, Boolean algebra and minimization logic.	2017-18
Oops through java	CS3305ES	To understand object oriented programming concepts,GUI programs and apply them in problem solving.	2017-18
Data Structures through C++ Lab	CS306ES	Analyze the performance of various data structures	2017-18
IT Workshop	CS307ES	will acquire the knowledge of creating standard documents and research documents using latex, create project plans	2017-18
OOPS through Java Programming Lab	CS308ES	To learn and write java programs for real world problems	2017-18
Computer Organization	CS401ES	To understand and explore the basic components of computer and memory	2017-18
Database Management Systems	CS402ES	To understand the concepts and applications of databae,transaction control and concurrency	2017-18
Operating Systems	CS403ES	To understand the opeations and scheduling policies of Operating Systems	2017-18
Formal Languages and Automata Theory	CS404ES	Understand the theoretical foundations of computer science from the perspective of formal languages	2017-18
Business Economics and Financial Analysis	SM405ES	ENTERPRENURSHIP Understand the various forms of business and impact of economic variables	2017-18
Database Management Systems Lab	CS407ES	To practice the designing, developing and querying a database in the context of real world	2017-18
Operating Systems Lab	CS408ES	To understand the opeations and scheduling policies of Operating Systems	2017-18
Principles of Programming Languages	A50511	To learn and understand various programming languages constructs	2017-18
Computer Networks	A50515	To introduce fundamental types of Computer network,UDP,TCP and explore various layers of OSI model	2017-18
Software Engineering	A50518	To understand the various software process models for developing software projects and to develop good quality softwares.	2017-18
Compiler Design	A50514	To develop compiler with various mechanisms	2017-18
Operating Systems	A50510	To understand the opeations and scheduling policies of Operating Systems	2017-18

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Operating Systems Lab	A50589	To write and implement various concepts of operating system using LINUX	2017-18
Compiler Design Lab	A50587	To understand the the language translation peculiarities by designing a complete translator for a mini language	2017-18
Distributed Systems	A60521	To understand theoretical concepts, namely, virtual time, agreement and consensus protocols	2017-18
Web Technologies	A60512	To develop web pages with various programming languages	2017-18
Object Oriented Analysis and Design	A60524	To prepare the document of the project for the unified Library application	2017-18
Software Testing Methodologies	A60525	To apply the process of testing and various methodologies in testing for developed software	2017-18
Managerial Economics and Financial Analysis	A60010	Understand the market dynamics namely, demand and supply,demand forecasting , elasticity of demand and supply, pricing methods and pricing in different market structures	2017-18
Linux Programming	A70517	To work with shell script to automate different tasks as Linux administration	2017-18
Design Patterns	A70530	To understand and apply common design patterns to incremental / iterative development	2017-18
Data Warehousing and Data Mining	A70520	To identify the association rules, classification and clusters in large data sets and to solve real world problems in business and scientific information using data mining	2017-18
Mobile Computing	A70536	Able to understand & develop any existing or new protocol related to mobile environment	2017-18
Management science	A80014	To plan, schedule and control projects through PERT and CPM and to evolve a strategy for a business or service organisation	2017-18
Web Services	A80551	To implement WS client and server with interoperable systems	2017-18
semantic web and social networks	A80538	to understand and knowledge representation for the semantic web,create and build ontoloy and a blogs and social networks	2017-18
Industry Oriented Mini Project	A80087	know the applications of their theoretical knowledge in various Industries and to get practical knowledge	2017-18
Project Work	A80088	explains the reason for its existence, the meaning of what is done, the ambition or dream pursued by the project	2017-18
Engineering Workshop	A61ES8	Practice on machine tools and their operations	2017-2018
Engineering Graphics	A62ES5	Draw 3D view images	2017-2018
Computer Programming In C	A62ES4	Develop Knowledge in Computer Programming	2017-2018
Computer Programming In C Lab	A62ES8	Develop C Programming skills	2017-2018
Data Structures Through C++	CS302ES	Analyze data structures for solving real world problems	2017-2018
Digital Logic Design	CS304ES	Analyze complete circuits to build larger complex circuits	2017-2018

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(AUTONOMOUS)
(Sponsored by TKR Educational Society , Approved by AICTE, Affiliated by JNTUH,
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1.1.3. Average percentage of courses having focus on employability/ entrepreneurship/ offered by the institution during the last five years

Name of the Course	Course Code	Activities/Content with direct bearing on / /	Year of introduction
Object Oriented Programming Through Java	CS305ES	Design GUI based applications	2017-2018
Data Structures Through C++ Lab	CS306ES	Apply data structures for solving real world problems	2017-2018
IT Workshop	CS307ES	Develop Presentations, Documents, Spread Sheets	2017-2018
Object Oriented Programming Through Java Lab	CS308ES	Develop GUI programs	2017-2018
Computer Organization	CS401ES	Analyze the structure of system	2017-2018
Database Management Systems	CS402ES	Apply Normal forms, Recovery techniques	2017-2018
Operating Systems	CS403ES	Demonstrate virtual memory, memory management techniques	2017-2018
Business Economics And Financial Analysis	SM405ES	Demonstrate Planning, Managing, Organizing and Leading	2017-2018
Computer Organization Lab	CS406ES	Develop circuits	2017-2018
Database Management Systems Lab	CS407ES	Analyze normalization & Develop programs using PL/SQL	2017-2018
Operating Systems Lab	CS408ES	Develop skills to operate various operating systems	2017-2018
Automata And Compiler Design	A50513	Demonstrate LL and LR parsers, code optimization	2017-2018
Linux Programming	A50517	Analyze commands, shell scripts, IPC, Pipes, messages, shared memory	2017-2018
Software Engineering	A50518	develop, maintain, efficient, reliable and cost effective software solutions	2017-2018
Computer Networks	A50515	Demonstrate Networking concepts	2017-2018
Managerial Economics And Financial Analysis	A50010	Demonstrate Planning, Managing and Organizing	2017-2018
Computer Networks Lab Through Linux	A50588	Demonstrate Networking concepts	2017-2018
Web Technologies	A60512	Create Dynamic web pages	2017-2018
Introdution To Analytics	A60018	Learn R- language, summarize the data and analyze the regressions	2017-2018
Object Oriented Analysis And Design	A6052	Design UML diagrams for projects	2017-2018
Data Warehousing And Data Mining	A60520	Apply data patterns	2017-2018
Software Testing Methodologies	A60525	Apply testing methods	2017-2018
Cloud Computing	A60519	Demonstrate computing services	2017-2018
Data Mining And Web Technologies Lab	A60592	Apply Data mining methods and Develop web Applications	2017-2018
Information Security	A70522	Analyze threats and attacks	2017-2018
Design Patterns	A70530	Analyze problems in design patterns	2017-2018
Mobile Application Development	A70535	Develop Mobile applications	2017-2018

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Name of the Course	Course Code	Activities/Content with direct bearing on //	Year of introduction
Information Retrieval Systems	A70533	Analyze data reteieving from collection of data	2017-2018
Big Data Analytics	A70541	Analyze data on various environments.	2017-2018
Human Computer Interaction	A70531	Apply techniques for user interaction with system	2017-2018
Case Tools And Software Testing Lab	A70593	Develop tools for testing	2017-2018
Mobile Applications Development Lab	A70597	Develop mobile applications	2017-2018
Management Science	A80014	Apply for Problem solving and decision making in organizations	2017-2018
Predictive Analytics	A80551	Apply machine learning for developing business applications	2017-2018
Storage Area Networks	A80550	Demonstrate network access to storage device	2017-2018
Seminar	A80089	Providing an opportunity to explore a topic in depth	2017-2018
Project Work	A80088	Develop Projects	2017-2018
Business Law And Ethics	A141PC5	will able to test the high voltage equpements using defferent technics to lead	2017-2018
Rural Marketing	A141OE6D	able to learn analyze the electrical AC and DC Machines using CAD software lead to	2017-2018
Corporate Governance	A142OE6B	able to learn design of prototype electrical models and applications in defferent objectives like mesure voltage, power and speed control lead to	2017-2018
International Business	A142OE6C	able to understad and face the technical interviews will lead to	2017-2018

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