



SRI KRISHNA COLLEGE OF TECHNOLOGY

[An Autonomous Institution | Affiliated to Anna University and Approved by
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KOVAIPUDUR, COIMBATORE – 641042,INDIA

info@skct.edu.in | www.skct.edu.in

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NAAC SSR Criterion 1 – Curricular Aspects

1.1.1 CURRICULUM AND ITS RELEVANCE TO LOCAL/NATIONAL/REGIONAL/GLOBAL NEEDS

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Programme Name: B.E. Civil Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13H204	Environmental Science	Local	The students will understand the physical, biological and information sciences to study about the environment and provide solution for environmental problems.
	13C501	Geotechnical Engineering - I	National	Impart knowledge on the principles and practices of geotechnical exploration, foundation engineering, and ground improvement methods
	13C602	Geotechnical Engineering – II		
	13C404	Applied Hydraulic Engineering	Regional	The students apply knowledge to various hydraulic engineering problems like open channel flows and hydraulic machines.
	13C305	Construction Technology	Global	The students will learn about the construction science of materials and buildings.
2015	15CE205	Construction Materials and Engineering Geology	Local	Study of geological maps, interpretation of geological structures, thickness problems, bricks and building materials/aggregates etc
	15CE306	Surveying – I	Regional	The object of surveying is to show relative positions of various objects of an area on paper and produce plan or map of that area.
	15CE310	Surveying – II		
	15CE314	Engineering Survey Laboratory		
	15CE327	Building Services	National	This subject provides an overview of key mechanical and hydraulic services, such as ventilation, air conditioning, electrical, lifts, fire fighting, plumbing, and sewerage. This



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				subject helps students to identify the design requirements for each of the services as proposed by the regulatory authorities and requirements, such as the National Construction Code, etc.
2016	16CE501	Disaster Management	Local	The students will understand the disaster phenomenon, its different contextual aspects, impacts and public heat consequences.
	16CE302	Architecture and Planning	Regional	To introduce the design approach of various building types with specific reference to site and climate.
	16CE318	Highway Engineering	National	To exposure the students in highway planning, engineering surveys for highway alignment.
	16CE301	Construction Techniques and Practices	Global	The students will acquire knowledge on different types of construction activities, building demolition in safe manner.
2017	17CE309	Soil Mechanics	Local	The students will study about the engineering behaviour of soil such as permeability, compaction, consolidation and shear strength.
	17CE314	Construction Management	National	The basic concepts in construction planning and scheduling, project crashing and cost control, safety and quality in construction field will be understood by the students.
	17CE325	Design and detailing of R C Structures	Global	This course imparts practical exposure to the design of liquid retaining structures, retaining walls, bridge components, yield line theory concepts and flat slabs.
	17CE313	Structural Analysis: Classical Methods		The students will learn about the types of arches, indeterminate beams and frames and concepts of moving loads.
	17CE306	Computer Aided Building Design		The students will be able to draft on computer building drawings (Plan, elevation and sectional views) in accordance with



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		Laboratory		development and control rules satisfying orientation and functional requirements.
2018	18CE005	Industrial Pollution Prevention	Local	To understand the important issues and their abatement principles of industrial pollution and prevention.
	18CE004	Geographical Information System	Regional	This course offers an introduction to the concepts, principles, and theories behind Geographic Information Systems and Science (GIS), with emphasis on the nature of geographic information, data models and structures for storing geographic information, geographic data input, data manipulation, and simple spatial analysis and modeling techniques.
	18CE002	Engineering Risk and Uncertainty	National	Know how to combine probabilistic and possibility representations in a single model and propagate uncertainties Understand use of results for decision-making.
	18CE403	Concrete Technology	Global	This course imparts knowledge and skills on detailed understanding of concrete ingredients, manufacturing process, behaviour of concrete and concrete under special circumstances.
	18CE006	Smart Materials and Smart Structures		This course is designed to give an insight into the latest developments regarding smart materials and their use in structures. Further, this also deals with structures which can self adjust their stiffness with load.



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Programme Name: M.E- STRUCTURAL ENGINEERING

Year of Introduction	Course Code	Course Name	Need	Description
2013	13CS12	Structural Dynamics	Regional	The students will analyze structures subjected to dynamic loading which will enable to estimate the aptitude, frequency and vibration by various techniques.
	13CS14	Concrete Structures	Regional	To know the design and detailing for seismic resistant and fire resistant structures
	13CS16	Foundation Structures	Regional	Students will acquire in depth knowledge about different kinds of soil
	13CS52	Design Of Bridges	Regional	To understand various aspects of loads, design of bridges, IRC specifications, types and choice for steel concrete and prestressed bridges.
	13CS54	Design Of Shell And Spatial Structures	Regional	The subject deals with the study of Structural behavior of Folded plates.
2015	15PMA101	Applied Mathematics	Local	To familiarize the students in the field of differential and elliptic equations to solve boundary value problems associated with engineering applications
	15PSE304	Structural Steel Design	Regional	To get an exposure in design concepts for industrial buildings, behavior and design of connections, cold formed steel structures, special structures, and advanced design philosophy.



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	15PSE305	Theory Of Elasticity And Plasticity	Regional	To find out the stresses in bodies subjected to two-dimensional and three dimensional forces
	15PSE502	Aseismic Design Of Structures	National	To get an exposure about the systems of loads and its assessment due to earthquake Behaviour and design concepts of design of earthquake resistant structures.
	15PSE507	Design Of Steel Concrete Composite Structures	National	To know the in-depth overview for the design of various steel concrete composite structures having applications in construction
	15PSE508	Design Of Tall Buildings	Regional	To know the Concepts ,Loading ,Behavior of tall buildings ,Analysis and design of tall systems, Stability of tall systems
2018	18PSE306	Advanced Structural Analysis	National	To get knowledge on stiffness and flexibility characteristics of structure and to get exposure on Finite Element Analysis.
	18PSE403	Advanced Concrete Technology	National	To get an exposure about concrete types ,special concrete, durability and quality control for concrete and to understand about form work , quality control and concreting in special circumstance
	18PSE409	Disaster Mitigation And Management	Global	To understand about various disaster management approaches and to get exposure on development planning methods
	18PSE410	Industrial Structures	National	To know about chimneys and cooling towers, bunkers, silos and to understand the functional requirement of



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				industrial structures
	18PSE411	Maintenance And Rehabilitation Of Structures	Regional	Understand the durability characteristics of concrete and strengthening of structures
	18PSE412	Stability Of Structures	Global	Apply the inelastic behaviour of materials and Analyse the inelastic character of column
	18PSE413	Prefabricated Structures	Global	To learn about prefabricated floors, stairs, roof and for analysing the prefabricated roofs, floors & stairs and industrial buildings



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Programme Name: B.E. Computer Science Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13CS105	Fundamentals of Computing and C Programming	Global	The students understand the functioning of various components of a computer system, Operating System, Problem Solving Methods, programming aspects of C and use of Arrays, Strings, Structures and Union in C.
	13CS206	Advanced C Programming	Global	The students will understand the advanced aspects of the C programming language, Pointers and File Management, Preprocessing, Modular Programming and System Programming
	13CS301	Database Management Systems	Global	The students would know the fundamentals of data models and to conceptualize and depict a database system using ER diagram, SQL and relational database design.
	13IT304	Digital Principles And System Design	Global	Students will adopt different methods for the simplification of Boolean functions. Study combinational circuits, synchronous sequential circuits, asynchronous sequential circuits, fundamentals of HDL.
2015	15CS304	Computer Architecture	Global	Subject provides knowledge on basic structure and operation of a digital computer, working of different types of arithmetic operations and memories.
	15CS305	Operating Systems	Global	Students will get familiarize to the OS services that assist system users, OS design, memory management, Secondary Management and File System Implementation
	15CS311	Design and Analysis of Algorithms	Global	The students will understand general techniques for analyzing computer algorithms, different algorithm design techniques and the limitations of



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	15CS323	Case Tools Laboratory	Global	Students will apply the principles of agile software development, use CASE tools for software development.
2016	16CS302	Computer Service Essentials	Global	Develop understanding of facets, domains in computer science.
	16CS306	Fundamentals of Open Source Software	Global	To know the significance of open source software licensing strategies and its tools, concepts in scripting languages.
	16CS416	Data Science	Global	To enable the students to understand the operation of various types of data, principles of interactive data visualisation, handle the network, temporal, text based, geospatial, hierarchical and graph based data counters.
	16CS316	Data Analytics	Global	Students will have knowledge on sources of Big data, data analytics life cycle, Hadoop Ecosystem, etc.
	16CS303	Operating Systems	Global	Students will get familiarize to the OS services that assist system users, OS design, memory management, Secondary Management and File System Implementation
	16CS313	Computer Networks	Global	Analyse the requirements for a given organizational structure and select the most appropriate networking architecture and routing technologies and to understand the application layer protocols and also the use of cryptography and network security
2017	17CS201	Problem Solving Techniques and C Programming	Global	The students understand the functioning of various components of a computer system and programming aspects of C and use of Arrays, Strings, Structures and Union in C.
	17CS203	Linux and Advanced C Programming	Global	Understand and work in Linux command line interface and to demonstrate and apply the pre-processor commands and bitwise



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				operations in C
	17CS302	Computer Science Essentials-II	Global	Apply configuration procedure to implement Local Area Network and internetworking components.
	17CS206	Object Oriented Programming using Java	Global	Apply the concepts of Applets, AWT and Event handling mechanism to solve a given problems and analyse the usage of different kinds of inheritance and constructor in real world scenario
	17CS308	Computer Architecture	Global	Subject provides knowledge on basic structure and operation of a digital computer, working of different types of arithmetic operations and memories.
	17CS319	Virtualization and Cloud	Global	Design cloud infrastructure management services and security policies and integrate the Next generation Data center technologies and Cloud API's .
	17CS317	Software Development	Global	Students will apply the principles of agile software development, use CASE tools for software development
	17CS404	Mobile Application Development	Global	Understand Android architecture and Design mobile Applications using android.
	17CS407	Advanced Java Programming	Global	Develop real time web application using HTML and Javascript, Java Beans, EJB and structs.
2018	18IT301	Object Oriented Programming	Global	Apply the concepts of multithreading, Event handling, collection framework and Swing to develop real time applications.
	18CS301	Computer Architecture	Global	Subject provides knowledge on basic structure and operation of a digital computer, working of different types of arithmetic operations and memories.
	18CS302	Data Structures	Global	Students shall have ability to apply the fundamental knowledge of various



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				Data structures for designing and implementing real time problem.
	18CS401	Database Management Systems	Global	The students would know the fundamentals of data models and to conceptualize and depict a database system using ER diagram, SQL and relational database design.
	18CS056	Theory of Computation	Global	Design regular expressions , Context Free Grammar DFA,PDA and Turing machine to represent languages.
	18IT602	Big Data Analytics	Global	Implement Web and Real time analytics on social media applications.
	18IT067	Internet of Things	Global	Build IoT systems using Raspberry Pi and Arduino and develop the real world IoT systems



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Programme Name: M.E. Computer Science Engineering

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2013	13PC15	Advanced Operating Systems	Global	Students will get familiarize to the OS services that assist system users, OS design, memory management, Secondary Management and File System Implementation
	13PC23	Software Testing and Quality Assurance	Global	Students can get exposure on various software testing tools used in the industries.
	13PC51	Intellectual property Rights	Global	The students would know the basic steps of filing and publishing patents and the concepts of copyrights.
	13PC54	Soft Computing	Global	Students will be highly benefited if they opt for research programmes in future.
2015	15PCS801	Research Methodology	Global	Students will get more focus and awareness on how to carry out a resech and its roadmap.
	15PCS521	BigDataanalytics	Global	Implement Web and Real time analytics on social media applications.
	15PCS522	Internet of Things	Global	Build IoT systems using Raspberry Pi and Arduino and develop the real world IoT systems
	15PCS502	Mobile Application Development	Global	Students will create a basic app for any day to day problems and thereby it leads to up any consultancy works
2018	18PCS304	Soft Computing Laboratory	Global	Students can be more aware of optimization techniques and fuzzy logic. Helpful to carry out their project work
	18PCS401	Agent Based Intelligent Systems	Global	Students can understand the concept of human computer interaction in this subject.



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	18PCS403	Cyber Security	Global	Students can learn about threats and challenges in the field of Cyber security and the laws related it.
	18PCS419	Block chain Technology	Global	The latest security issues and network related concepts can be learnt.
	18PCS426	Robotics	Global	Students can understand the importance of automation and the reduction of man power from this subject.

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Programme Name: B.E. Electronics and Communication Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13EC206	Electron Devices	Local	The students will understand and gain knowledge on the operation of semiconductor diodes, BJTs and its applications.
	13EC301	Digital System Design With VHDL	Local	To understand the operation of various combinational, sequential circuits and concepts of various flip flops and their role in sequential circuit design.
	13EC404	Linear Integrated Circuits	Local	The students will learn about the applications of Integrated Circuits, concepts of ADC and DAC, and experiment the applications using special function ICs.
	13EC504	Digital Signal Processing	Local	The students gain knowledge on DFT, FFT, the design of filters, and concept of multi rate digital signal processing.
	13EC505	Microprocessors and Microcontrollers	Global	The course projects a detailed knowledge about 8085, 8086 microprocessor, 8051 microcontroller, PIC microcontroller and their interfacing.
2015	15EC301	Electron Devices	Local	The students will understand and gain knowledge on the operation of semiconductor diodes, BJTs and its applications, and concept of electronic devices.
	15EC321	Embedded Systems	Global	The students gain an insight on the architecture and process of embedded system, concepts of real time operating system, and system design techniques and networks for embedded systems.
	15EC416	ARM Processor Architecture &	Global	The students will understand the architecture of ARM processor, support of ARM for operating system, function of memory



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		Programming		Management unit of ARM, and development of an application related to ARM processor.
	15EC417	Sensors for Industrial Applications	Global	To understand the sensor characteristics, sensor interface electronics, motion-related sensors, light and radiation detectors, temperature sensors and selected chemical sensors.
	15EC419	Real-Time Operating Systems	Global	To give exposure on basic concepts of embedded operating system, various scheduling methods, Real time Linux and analyse few case studies related to its applications
2016	16EC304	Electronic Circuits	Local	This course imparts the concepts of BJT and MOSFET biasing, frequency response of amplifiers, operation of negative feedback amplifiers, oscillators, multivibrators and tuned amplifiers.
	16EC305	Digital Electronics	Local	The students will learn about the operation of various combinational logic circuits, the concept of flip flop and their role in sequential circuit design, design of synchronous and asynchronous sequential circuits, and different types of memory.
	16EC322	VLSI Circuits	Local	To understand the basics of MOS circuit design, MOS process technology, concepts of semiconductor memory cells, and to construct combinational and sequential circuits considering the power and timing constraints.
	16EC420	Advanced Microprocessor and Microcontroller	Global	The students will learn about the internal programming model of INTEL family of microprocessors, interfacing of 16 bit microcontrollers, and concepts of RISC processor.
2017	17EC302	Electron Devices	Local	The students will gain knowledge on the operation of semiconductor diodes, BJTs, MOSFETS, Fin FETs and the applications of diodes.



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	17EC305	Digital Electronics	Local	The students will learn about the operation of various combinational logic circuits, the concept of flip flop and their role in sequential circuit design, design of synchronous and asynchronous sequential circuits, and different types of memory.
	17EC304	Electronic Circuits	Local	This course imparts the concepts of BJT and MOSFET biasing, frequency response of amplifiers, operation of negative feedback amplifiers, oscillators, multivibrators and tuned amplifiers.
	17EC311	Signals and Systems	Local	The students gain knowledge on the continuous and discrete time signals and systems, and analyse the systems using transformation techniques.
	17EC402	Internet of Everything	Global	The course gives an insight on IoT from a global context, the students will understand the principles of design in prototyping, and will be able to apply IoT in various applications.
2018	18EC201	Electron Devices	Local	The students will understand and gain knowledge on the operation of semiconductor diodes, BJTs, MOSFETS, FinFETs and the applications of diodes and will be able to create basic circuits.
	18EC401	Analog Integrated Circuits	Local	This course introduces the theoretical and circuit aspects of Op-amp which is the backbone for Linear Integrated Circuits and basics of special function ICs.
	18EC303	Electromagnetic Fields and Waves	Local	To expose the students to the fundamentals of electromagnetic waves, structure of transmission line and essential feature of rectangular waveguides.
	18EC402	Analog Communication	Local	This course introduces the concept of analog communication systems, and to make the students understand the functions of



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	18ECE38	High Speed Networks	Global	The students will understand the concepts of ATM, Frame relay, congestion control mechanisms, Differentiated and integrated services, and protocols for QoS support.



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Programme Name: M.E. APPLIED ELECTRONICS

Year of Introduction	Course Code	Course Name	Need	Description
2013	13LA12	Advanced Digital Signal Processing	Local	The students will be able to understand the stochastic modelling of ARMA, AR, MA process, various methods of power spectrum estimation techniques, the design concepts of Wiener filters and adaptive filters, and the concept of multirate sampling and its implementation.
	13LA13	Advanced Digital System Design	Global	This course helps the student to analyze synchronous sequential circuits, asynchronous sequential circuits, understand circuit design using PLD's and FPGA, and describe a digital circuit using HDL.
	13LA22	Digital Control Engineering	Global	The students will gain knowledge on concepts of sampling and signal reconstruction in digital control systems, response of the systems, and the implementation of digital PID controllers.
	13LA72	Wireless Sensor Networks	Global	The students gain an insight on the basics of wireless sensor networks, the MAC and routing protocols of WSNs and sensor node programming.
2015	15PAE302	Advanced Digital Signal Processing	Local	The students will be able to understand the stochastic modelling of ARMA, AR, MA process, various methods of power spectrum estimation techniques, the design concepts of Wiener filters and adaptive filters and the concept of multirate sampling and its implementation.
	15PAE306	Embedded Systems	Global	The students will gain knowledge on basic concepts of



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	15PAE501	High Performance Communication Networks	Global	The course gives an insight on packet switched networks, ATM switching, frame relay, advanced network architecture and the layer wise functionalities of Bluetooth technology.
	15PAE532	Wireless Sensor Networks	Global	The students gain an insight on the basics of wireless sensor networks, the MAC and routing protocols of WSNs and sensor node programming.
2018	18PAE301	Advanced Digital Design	Global	The students will be able to solve sequential circuit design problems, understand the concept of testability algorithms and system design using VHDL.
	18PAE401	IOT and Applications	Global	The students will understand the features of IoT, architecture and reference model of IoT and the applications of IoT in various fields.
	18PAE306	High Performance Communication Networks	Global	The course gives an insight on packet switched networks, ATM switching, frame relay, advanced network architecture and the layer wise functionalities of Bluetooth technology.
	18PAE432	Wireless Sensor Networks	Global	The students gain an insight on the basics of wireless sensor networks, the MAC and routing protocols of WSNs and sensor node programming.



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Programme Name: B.E. Electrical and Electronics Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13EE205	Electric Circuit Analysis	Global	Students will get familiarize to find the current and voltage on the particular element and deduce the network
	13EE301	Field Theory	Global	Course provides knowledge to understand the devices, methods, and systems used for electrical energy.
	13EE303	Measurements and Instrumentation	Global	Course gives necessary information of measurements used in any kind of industry like electrical, electronics, mechanical etc.
	13EE306	DC Machines and Transformers	Global	Students are able to select specific dc machines for particular application.
	13EE403	Generation, Transmission and Distribution of Electrical Energy	Global	Student imparts the knowledge on the basics of power generation, transmission and distribution of electrical energy.
	13EE404	Induction and Synchronous Machines	Global	Students are able to select specific AC machines for particular application.
	13EE502	Power Electronics	Global	Foster ability to identify basic requirements for power electronics based design for particular application.
	13EE601	Power System Analysis	Global	Development of power system equivalents by phase network analysis, load flow studies, fault analysis and digital simulation.
2015	15EE301	Electron Devices and	Global	Design and analyze the electronic circuits by understanding the physical

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		Circuits		operation of the semiconductor devices
	15EE306	Linear and Digital Integrated Circuits	Global	Design and development of Linear circuits using Op-amps and design the digital logic circuit using digital integrated circuits
	15ES104	Virtual Instrumentation	Global	Students will learn LabVIEW as a software tool for designing computer-based virtual instruments, which includes software-based intelligence to sensors and actuators and basic laboratory bench devices.
	15EE318	Microprocessor and Controllers	Global	Subject deals about the basic 8- bit, 16-bit processor and an 8-bit controllers, their architecture , internal organization and their functions, interfacing an external device with the processors/ controllers
	15EE322	Digital Signal Processing and its Application	Global	Ability to apply engineering problem solving strategies to DSP problems
	15EE326	Electric Drives and Control	Global	Students will study about the solid-state dc & ac drives and different methods of starting D.C motors and induction motors.
2016	16EE312	Control System	Global	Develop the mathematical modelling of physical, mechanical, thermal system, employ time domain analysis and frequency domain analysis to find the performance parameters of the system and categorize the requirements of various controllers and compensator to establish the necessary response from the given system
	16EE325	Power System and Protection Switchgear	Global	Build an ability and skill to design the possible protection systems required for power system.
	16EE501	Renewable Energy	Global	Understand the different types of conventional energy resources and use



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		Sources		of renewable energy sources for both domestic and industrial applications
	16EE327	Prototype Module Laboratory	Global	Students will do the prototype for addressing the solution for societal problems and engineering problems
	16EE801	Industrial Practice	Global	Students will undergo the training in industries for learning the real time issues.
2017	17EE321	Digital Signal Processing and its Application	Global	Evaluate the time and frequency response of continuous and discrete time systems which helps them to understand the behaviour of electronic circuits and communication system
	17EE502	Energy Auditing, Conservation and Management	Global	Inculcate the students to systematic knowledge and managerial skill about assessing the energy efficiency, energy auditing and energy management.
	17EE503	Smart Grid and its Applications	Global	Students will learn about the smart grid technologies, their applications and control issues covering Smart Generation Transmission, Distribution.
2018	18EE201	Basics of Electrical Engineering	Global	Students get comprehensive exposure about the electrical engineering
	18ECS02	Digital System Design	Global	Develop a digital logic circuits for solving real life problem
	18ECS03	Linear Integrated Circuits	Global	Demonstrate the ability to design practical circuits that perform the desired operations. Select the appropriate integrated circuit modules to build a given application
	18ICS01	Measuring Instruments	Global	Students will be able to understand principle of operation of different



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		and Smart Sensors		types of measuring instruments and sensors
	18ECS14	Microcontroller and Embedded Systems	Global	Design microcontroller based system for various applications.
	18CSS13	Soft Computing Techniques	Global	Develop the skills to gain a basic understanding of neural network theory and fuzzy logic theory and apply these models to solve engineering and other problems
	18ITS02	Internet of Things Laboratory	Global	This course gives a insight about the Internet of Things, including the components, tools, and analysis to solve real-world solutions.
	18EEE07	Sustainable Energy Systems	Global	This course provides knowledge about the conversion principles and technology behind various renewable energy sources.



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1.1.1 CURRICULUM AND ITS RELEVANCE TO LOCAL/NATIONAL/REGIONAL/GLOBAL NEEDS

Programme Name: M.E. Power Systems Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13EP12	Power system Analysis	Global	Development of power system equivalents by phase network analysis, load flow studies, fault analysis and digital simulation.
	13EP13	Power System Operation and Control	Global	Students can understand & model real and reactive power-voltage interaction and different methods of control for maintaining voltage profile against varying system load.
	13EP16	Flexible AC Transmission Systems	Global	Course deals about model the Real power-voltage interaction and different methods of control for maintaining voltage profile against varying system load.
	13EP21	Power System Protection	Global	Build an ability and skill to design the possible protection systems required for power system.
	13EP22	Power System Dynamics	Global	Analyze principles and practices of modelling the power system components such as synchronous machines, excitation systems and governors.
	13EP65	Wind Energy Conversion Systems	Global	Students will learn the working of different generators, power conditioning system used in grid tied wind system and modern wind turbine control & monitoring
	13EP66	Soft Computing	Global	Develop the skills to gain a basic understanding of neural network theory

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		Techniques		and fuzzy logic theory and apply these models to solve engineering and other problems
2015	15PPS304	Digital Power System Protection	Global	This course is designed to inculcate the knowledge of. microprocessor based relays and protective schemes for transmission lines and power apparatus.
	15PPS801	Research Methodology	Global	Student gets an opportunity to understand research through critically review literature relevant to their field or interests and determine how research findings are useful in forming their research work, social, local and global environment .
	15PPS502	Analysis Of Electrical Machines	Global	Course enables the students to perform the analysis of any electromechanical system.
	15PPS504	EHV Power Transmission	Global	Subject gives in-depth understanding of different aspects of Extra High Voltage AC transmission system design and analysis
	15PPS506	Power Quality Analysis	Global	Student will learn about power quality monitoring method, equipments and develop the ability to analyze the measured data.
	15PPS507	Power System Planning And Reliability	Global	Students get the insight for load forecasting, power system planning, power quality and reliability issues in power system.
2018	18PPS301	Advanced Power System Analysis	Global	Students will gain knowledge on various representations of power systems components and simplify their behaviour with limitations.
	18PPS402	Smart grids	Global	Students will learn about the smart grid technologies, their applications and control issues covering Smart Generation Transmission, Distribution.
	18PPS403	Transducers and Smart	Global	Students can identify the types of transducers or sensors to use for



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		Instruments		particular application.
	18PPS407	Electric and Hybrid Vehicles	Global	Analyze various electric drives suitable for hybrid electric vehicles and discuss different energy storage technologies used for hybrid electric vehicles and their control.
	18PPS414	Nanotechnology For Energy System	Global	Course provides knowledge about the different types of energy forms, alternate and renewable energy system using nanotechnology.
	18PPS420	Power System Transients	Global	Student get knowledge on the system transients, sag and various issues related to cables and transmission lines.



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Programme Name: B.E. Instrumentation and Control Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13IC306	Transducer Engineering	Local	To impart knowledge about the principles and analysis of sensors. Discussion of errors and error analysis. Emphasis on characteristics and response of transducers. To have an adequate knowledge in resistance transducers. Basic knowledge in inductance and capacitance transducers and exposure to other transducers.
	13IC061	Robotics and Automation	National	To study the concepts of robotics and automation. To learn the working of robot. To understand the design methods of robot for automation. To study the basic concept and various components within an embedded system.
	13IC042	Embedded System Design		To learn the different techniques of inter facing between processors & peripheral device related to embedded processing. To understand the basic concepts of systems programming like operating system, assembler compilers etc and to understand the management task needed for developing embedded system.
	13CS079	Artificial Intelligence and Expert Systems	Global	To study the basic concept of Artificial Intelligence. To have an idea about the various representation techniques used. To study the concept of expert systems.



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				To learn about the various examples based on robotics.
2015	15IC315	Industrial Instrumentation	Local	1 To provide sound knowledge about various techniques used for the measurement of industrial parameters 2 To have an adequate knowledge about temperature and pressure transducers 3 To know about various flow and level measurement techniques adopted in industrial environment. 4 To have an exposure to various force, torque, density measuring instruments.
	15IC309	Control Engineering	National	To teach a variety of classical methods and techniques for designing control systems. To introduce and teach the iterative nature of most designs in order to achieve working systems To provide adequate knowledge in the time response of systems and steady state error analysis.
	15IC421	Image Processing	Global	1 To understand the concept of enhancing and restoring of image. 2 To have a detailed study of segmentation and compression. 3 To study about different methods of image recognition and interpretation.
2016	16IC315	Process Control	Local	1 To know the basic principles and importance of process control in industrial plants 2 To equip the students with knowledge of modelling physical processes.



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				3 To impart design of various control schemes for process dynamics. 4 To acquire brief knowledge on control valves
	16IC318	Analytical Instrumentation	National	1 To know the basic principles and importance of Analytical Instruments in industrial plants 2 To equip the students with knowledge of analysis of materials for process control and Quality Control in Industry. 3 To acquire brief knowledge on various instruments used in the analysis of materials.
	16IC408	Intelligent Control	Global	1 To provide adequate knowledge on artificial neural networks 2 To inculcate the concept of fuzziness involved in various systems. 3 To acquire the fundamentals of genetic search methods
2017	17IC203	Hydraulics and Pneumatics	Local	1. To introduce the working of the components of a fluid power system and their needs. 2. To enable the students to understand the operation of various fluid power circuits 3. To enable the students to understand the concepts like synchronizing, sequencing for automation. 4. To prepare the students to design electro-pneumatic circuit, ladder diagrams and
	17IC402	Instrumentation System Design	National	1 To learn the basic operation and working of flow and temperature trainer kit. 2 To study about various modern instrumentation and control systems. 3 To understand the different types of valves and its application.

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				4 To study about the construction, characteristics and types of pump.
	17IC405	Automobile and Aircraft Instrumentation	Global	1 To study the concept of basic instrumentation in automobiles. 2 To understand the usage of various sensors in automobiles. 3 To understand the Functioning of indicating systems. 4 To understand the various instruments used in cockpit. 5 To learn the working process of various magnetic instruments in aircraft.
2018	18IC103	Electric Circuits and Analysis	Local	To understand the concept of circuit laws, circuit elements, lumped circuits, waveforms and network reduction. To solve the electrical network using mesh and nodal analysis, by applying network theorems. To know the basic concepts of resonance and coupled circuits.
	18IC403	Electrical Machines	National	To understand the construction and working principle of DC generators, DC motors, Transformers, induction motors and special machines. To understand various starting and braking methods for DC & AC motors. To analyze the performance characteristics and testing of various DC machines, transformers and induction machines. To analyze the various methods of speed control for DC and AC machines.



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Programme Name: B.Tech. Information Technology

Year of Introduction	Course Code	Course Name	Need	Description
2013	13CS105	Fundamentals of Computing and C Programming	Global	The students understand the functioning of various components of a computer system, Operating System, Problem Solving Methods, programming aspects of C and use of Arrays, Strings, Structures and Union in C.
	13CS206	Advanced C Programming	Global	The students will understand the advanced aspects of the C programming language, Pointers and File Management, Preprocessing, Modular Programming and System Programming
	13CS301	Database Management Systems	Global	The students would know the fundamentals of data models and to conceptualize and depict a database system using ER diagram, SQL and relational database design.
	13CS303	Object Oriented Programming and C++	Global	Students will able to apply object oriented concepts of C++ in solving real world problems.
	13EC409	Microprocessors, Microcontrollers and Applications	Global	Student should be able to Obtain knowledge in microprocessor architectures and assembly language programming and to design a microprocessor /microcontroller based system for an application.
	13IT503	Java and Internet Programming	Global	Helps to design web-based information systems to meet certain



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				business needs and implement websites using HTML5, CSS, JavaScript and AJAX.
	13IT605	Graphics and Multimedia	Global	Use the rules and algorithms in generating graphical outputs applying 2D and 3D transformations.
	13IT701	Service Oriented Architecture	Global	Students can able to design web services and realization of SOA, Design SOAP, RESTful services and implement SOA based application integrating with BPEL.
	13IT704	Cloud Computing	Global	Apply principles of best practice in cloud application design and management and also student can design cloud applications and assess their importance
2015	15CS304/ 15IT304	Computer Architecture	Global	Subject provides knowledge on basic structure and operation of a digital computer, working of different types of arithmetic operations and memories.
	15IT306	Digital Principles and Systems Design	Global	Students will adopt different methods for the simplification of Boolean functions. Study combinational circuits, synchronous sequential circuits, asynchronous sequential circuits, fundamentals of HDL.
	15CS305/	Operating Systems	Global	Students will get familiarize to the OS services that assist system



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	15IT305			users, OS design, memory management, Secondary Management and File System Implementation
	15IT311	Design And Analysis Of Algorithms	Global	Recognize general principles and good algorithm design techniques for developing efficient algorithms
	15CS207	Object Oriented Programming Using Java	Global	Apply the concepts of Applets, AWT and Event handling mechanism to solve a given problems and analyse the usage of different kinds of inheritance and constructor in real world scenario
	15CS311	Design and Analysis of Algorithms	Global	The students will understand general techniques for analyzing computer algorithms, different algorithm design techniques and the limitations of Algorithm power
	15CS323	Case Tools Laboratory	Global	Students will apply the principles of agile software development, use CASE tools for software development.
	15IT314	Formal Languages And Automata Theory	Global	The students will understand Apply the pumping lemma properties to Regular and Context Free Languages and design DFA, PDA and Turing machine for a Language
	15CS210	Microprocessors & Microcontrollers	Global	To apply and understand the principles and working of Arduino Processor and to understand the architecture and programming of ARM Processor



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	15IT315	Computer Networks	Global	Analyse the requirements for a given organizational structure and select the most appropriate networking architecture and routing technologies and to understand the application layer protocols and also the use of cryptography and network security
	15IT316	Machine Learning	Global	Students can able to understand the concepts behind different types of learning and their appropriateness apply different learning techniques for different kinds of data and applications
	15IT318	Digital Signal Processing	Global	Design and implement digital finite impulse response (FIR) filters and understand and develop application of digital signal processing systems.
	15IT319	Software Development	Global	Apply design principles and refactoring to achieve Agility and deploy automated build tools, version control and continuous integration
2016	16CS302	Computer Service Essentials	Global	Develop understanding of facets, domains in computer science.
	16IT306	Fundamentals Of Digital And Mobile Communication	Global	To enable students to understand mobile radio communication principles, Multiplexing techniques and recent trends.
	16CS306	Fundamentals of Open Source Software	Global	To know the significance of open source software licensing strategies and its tools, concepts in scripting languages.

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	16CS416	Data Science	Global	To enable the students to understand the operation of various types of data, principles of interactive data visualisation, handle the network, temporal, text based, geospatial, hierarchical and graph based data counters.
	16CS316	Data Analytics	Global	Students will have knowledge on sources of Big data, data analytics life cycle, Hadoop Ecosystem, etc.
	16IT303	Operating Systems	Global	Students will get familiarize to the OS services that assist system users, OS design, memory management, Secondary Management and File System Implementation
	16IT313	Computer Networks	Global	Analyse the requirements for a given organizational structure and select the most appropriate networking architecture and routing technologies and to understand the application layer protocols and also the use of cryptography and network security
	16IT324	Internet Programming	Global	Able to understand the components and patterns that constitute a suitable architecture for a web and able to create Web pages.
2017	17CS201	Problem Solving Techniques and C Programming	Global	The students understand the functioning of various components of a computer system and programming aspects of C and use of Arrays, Strings, Structures and Union in C.
	17CS203	Linux and Advanced C Programming	Global	Understand and work in Linux command line interface and to demonstrate and apply the pre-processor commands and bitwise operations in C
	17IT302	Computer Science Essentials-II	Global	Apply configuration procedure to implement Local Area Network and internetworking components.



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	17CS206	Object Oriented Programming using Java	Global	Apply the concepts of Applets, AWT and Event handling mechanism to solve a given problems and analyse the usage of different kinds of inheritance and constructor in real world scenario
	17IT308	Computer Architecture	Global	Subject provides knowledge on basic structure and operation of a digital computer, working of different types of arithmetic operations and memories.
	17IT319	Virtualization and Cloud	Global	Design cloud infrastructure management services and security policies and integrate the Next generation Data center technologies and Cloud API's .
	17IT317	Software Development	Global	Students will apply the principles of agile software development, use CASE tools for software development
	17IT404	Mobile Application Development	Global	Understand Android architecture and Design mobile Applications using android.
	17IT407	Advanced Java Programming	Global	Develop real time web application using HTML and Javascript, Java Beans, EJB and structs.
	15IT508	R Programming	Global	Interface R with C/C++ and Python for increased speed or functionality and find new packages for text analysis, image manipulation, and perform statistical analysis of the same.
2018	18IT301	Object Oriented Programming	Global	Apply the concepts of multithreading, Event handling, collection framework and Swing to develop real time applications.
	18CS301	Computer Architecture	Global	Subject provides knowledge on basic structure and operation of a digital computer, working of different types of arithmetic operations and memories.



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	18CS302	Data Structures	Global	Students shall have ability to apply the fundamental knowledge of various Data structures for designing and implementing real time problem.
	18CS401	Database Management Systems	Global	The students would know the fundamentals of data models and to conceptualize and depict a database system using ER diagram, SQL and relational database design.
	18ECS13	Digital and Mobile communication	Global	Apply analog and digital communication techniques and use data and pulse communication techniques.
	18CS056	Theory of Computation	Global	Design regular expressions , Context Free Grammar DFA,PDA and Turing machine to represent languages.
	18CS501	Computational Intelligence	Global	Examine different Supervised learning and unsupervised techniques and its applications.
	18IT602	BigDataanalytics	Global	Implement Web and Real time analytics on social media applications.
	18IT067	Internet of Things	Global	Build IoT systems using Raspberry Pi and Arduino and develop the real world IoT systems



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Programme Name: B.E. Mechanical Engineering

Year of Introduction	Course Code	Course Name	Need	Description
2013	13EN101	Technical English - I	Global	The students acquire the listening, effective speaking, reading, and writing skills for academic and professional purposes.
	13CS105	Fundamentals of Computing and C Programming	Global	The students understand the functioning of various components of a computer system, Operating System, Problem Solving Methods, programming aspects of C and use of Arrays, Strings, Structures and Union in C.
	13CH204	Environmental Science	Global	The students will gain knowledge about the various ecosystems and its biodiversity. Also, they will get awareness about various pollutions and its control measures, environmental issues and its possible solutions and the environmental laws.
	13ME304	Manufacturing Technology	National	The students will gain knowledge on various processes and operations required for manufacturing the engineering products.
	13ME601	Automobile Engineering	National	The students understand the various systems of Automobile Engineering like, vehicle structures, engine auxiliary systems, transmission systems, steering systems, suspension system etc.,
2015	15ME202	Engineering Practices	Local	Students get the experience in wood working, sheet metal



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		Lab		fabrication, plumbing, welding and foundry. Also, they gain knowledge of various electrical and electronic gadgets, basic electronic instruments, their working and trouble shooting.
	15ME312	Thermal Engineering	Global	Students learn the fuel properties, performance of IC Engines. Also, they learn about performances of air compressors and air conditioning systems.
	15ME206	Internet of Things for Mechanical Engineers	Global	Students understand the building blocks of IOT and gain knowledge on real world application of IOT. Also, they apply the concepts of IOT in various applications.
	15ME314	Design of Machine Elements	Global	Students learn the concepts of various processes involved in design. They get a experience in designing basic mechanical components such as shafts and springs.
	15ME321	Computational Mechanics	Global	Students learn the basics and applications of finite element analysis (FEA) in engineering applications.
	15ME207	Data Analytics	Global	Students learn the basic principles of data analytics and its applications in smart manufacturing.
2016	16ME307	Strength of Materials	Global	Students learn the stresses acting on various mechanical members and its effects. Also, they understand the different types of failures under action of different loads and moments.
	16ME309	Manufacturing Technology Lab	Regional	Students get hands-on experience on operating various conventional and special purpose machines.
	16ME315	Metrology and Instrumentation	Regional	Students learn the usage of different measuring equipments and use of this industry for quality inspection



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		Laboratory		
	16ME318	Heat and Mass Transfer	Global	Students apply the various laws of heat and mass transfer in engineering applications. Also, they learn about design of heat exchangers.
	16MG004	Engineering Management and Financial Accounting	National	Students learn project management techniques and financial accounting.
	16ME327	Production Management	Global	Students learn implementation aspects of production planning, scheduling, and costing in an industry.
2017	17ME302	Machine Drawing and Engineering Tolerance	Global	Students get the knowledge of drawing practices for common machine components, blue prints, assembly drawing and geometric dimensioning and tolerance.
	17ME306	Industrial Metallurgy	Global	Student understand the different metals and non-metals and their applications, heat treatment of metals, and testing of metals
	17ME314	Dynamics of Machinery	Global	Students understand the principles and methods of static force analysis, dynamic force analysis, undesirable effects of unbalance in rotors and engines.
	17ME317	CAD/CAM Lab	Global	Students gain hands-on experience in designing mechanical components using 3D design software.
	17ME319	Design of Transmission Systems	Global	Students gain knowledge in designing power transmission systems.
	17ME324	Statistical Process Control and Quality Engineering	Global	Students learn the basic principles, function and practice adapted in industries for quality control.
2018	18ME201	Statics and Dynamics	Global	Students get the knowledge in applying the laws of mechanics and solving 2D and 3D problems in static and dynamic systems



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	18ME402	Kinematics of Machinery	Global	Students gain knowledge in planar mechanisms, cam and follower, gear trains and effect of friction in mechanical components.
	18ME403	Fluid Mechanics and Machinery	Global	Students gain knowledge on fluid properties and characteristics.



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Programme Name: M.E. Engineering Design

Year of Introduction	Course Code	Course Name	Need	Description
2013	13MD11	Reliability and Numerical Analysis	Global	Students will find the solutions of large system of linear equations of a matrix numerically, where analytical methods fail to give solution and to know the applications of numerical integration. Students will have the skill to solve ordinary differential equations and partial differential equations as most of the engineering problems are characterized in the form of either nonlinear ordinary differential equations or partial differential equations using Numerical Methods.
	13MD14	Quality Concepts in Design	Global	The subject deals with identification of control factors, noise factors, performance metrics, failure mode effect analysis, Design of Experiments involving basic methods, statistical analysis, experimental optimization, Design for Six Sigma
	13MD51	Intellectual Property Rights	Global	The students will have an exposure of how to carry out patent application and intellectual property rights along with policies and regulations.
2015	15PED002	Vibration Analysis and Control	Global	Subject focus on practical applications of vibration analysis, vibration measuring instruments, and control strategies.
	15PED004	Finite Element Methods	Global	Using Finite Element methods, students will analyse structure , heat transfer and flow in a geometric non linearly and modelling considerations.
	15PEDE04	Concurrent Engineering	Global	The students will understand the life-cycle management, process engineering, concurrent engineering, re-engineering concepts for conducive environment.



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NAAC SSR Criterion 1 – Curricular Aspects

2017	17PED003	Modelling and Mechanism Simulation Laboratory	Global	Students will be able to create 2D and 3D models in relevance to the given drawing using modelling and Analysis packages.
	17PEDE13	Design Of Hydraulic And Pneumatic Systems	Global	The students will apply concepts of hydraulics and pneumatics as fluid power in Industry and carry out advanced design of pneumatics and hydraulics systems.
	17PEDE12	Product Design And Development	Global	The students will gain knowledge on the challenges of product development & customer needs.
	17PEDE16	Advanced Strength Of Materials	Global	The subject deals with stresses and strains in components under normal, shear, torsional and rotational loading conditions.
2018	18PED305	Failure Analysis in Design	Global	The students will be able to find various modes of failure leads to safe design. Large variety of fracture mechanisms and fracture modes associated with failure is also dealt with.
	18PED306	Tribology in Design	Global	The science and technology of interacting surfaces in relative motion and surfaces, friction and wear surface coatings and their effect are dealt in the subject.
	18PED307	Computer Aided Analysis Laboratory	Global	The students will gain knowledge to perform stress analysis for any given component and various mechanical loading conditions to simulate and analyse engineering components under various thermal loading conditions.



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Programme Name: Master of Business Administration

Year of Introduction	Course Code	Course Name	Need	Description
2014	14G101	Management Principles & Organizational Behavior	Local	To develop an overall view of management and organizational management principles. To familiarize about various organization theories and issues pertaining to individual and group
	14G107	Entrepreneurship Development	Local	•To familiarize the students about entrepreneurship development & small business management.
	14G207	International Business Management	Global	•To get an overall picture of international business and its impact on environment.
	14G006	International Financial Management	Global	•To define and measure foreign exchange risks and to identify risk management strategies. •To integrate the global developments in finance to suit the changing business environment in India
	14G016	International Human Resource Management	Global	Provide the students with an understanding of the international human resource management practices. The students will be exposed to the latest HR practices and strategies for international growth.
2016	16PN851	Business Communication	Local	To emphasize and develop language skills to satisfy the needs of work environment To develop the prominence of listening and reading practices using authentic business vocabulary
	16PN407	Business Finance	Local	To understand the fundamentals of Financial Management and operations Create an understanding on the choice of statistical tools for solving a research problems.
	16PN953	Business Analytics		



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		Using SPSS	Global	To develop the capacity of the students to understand the contemporary changes in the global business environment. To familiarize the students with the extent of embeddedness of global business in the international institutional setting
	16PN413	International Business		
	16PN651	Export Management And Documentation	Global	To acquaint the student with the Export and Import policies and procedures To highlight about various authorities of the government, export organization, commodity
2018	18PNC212	Information Technology for Management	Local	To learn the growth of IT industry and its strategic importance
	18PNC314	Business Research Methods	Local	To make the learners to understand the importance of Business research methods To equip them to familiarize with the data collection techniques
	18PNC420	EXCEL for Business Applications	Local	To make understand what a spreadsheet is and where a spreadsheet might come in useful for management. To enable the students to know and practice about the Excel in business
	18PNE028	International Marketing	Global	To provide an understanding of the international strategies in the field of marketing. To develop and apply different strategies and techniques to enter international market space
	18PNE073	Global Entrepreneurship	Global	To develop an understanding of a typology of global opportunities that are created on account of historical, economic, political, social, and cultural differences among national contexts, and develop skills to identify and screen global opportunities



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