



BATCH 2023

ONWARDS

COURSE OUTCOMES



Prepared by :

**ELECTRONICS AND COMMUNICATION
DEPARTMENT**

Course Outcomes

Semester: 1st/2nd

Course: Engineering Physics; Semester: 1st/2nd	
Course Code:- BTPH 101-23	NAAC Code:- ECE-101
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Acquire knowledge about the Maxwell equation and Electromagnetic spectrum.
II	Understand the working, properties and characterization techniques of semiconductor materials and devices.
III	Appreciate the need for quantum mechanics, wave particle duality, uncertainty principle etc. and their applications.
IV	Understand the properties and synthesis of nanomaterials.
V	Understand laser system, optical fibre in industries, laboratories and in communication.

Course: Engineering Physics Lab; Semester: 1st/2nd	
Course Code:- BTPH 102-23	NAAC Code:- ECE-102
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Able to verify some of the theoretical concepts learnt in the theory courses.
II	Trained in carrying out precise measurements and handling sensitive equipment.
III	Introduced to the methods used for estimating and dealing with experimental uncertainties and systematic errors.
IV	Learn to draw conclusions from data and develop skills in experimental design.
V	Write a technical report which communicates scientific information in a clear and concise manner.

Course: Engineering Mathematics-I; Semester: 1st	
Course Code:- BTAM101-18	NAAC Code:-ECE-103
CO No.	COs(Course Outcomes): On the successful completion of course, students will be:
I	able to verify some of the theoretical concepts learnt in the theory courses.
II	trained to visualize and conceptualize the engineering problems.
III	to model the engineering problem mathematically using theory of calculus.
IV	learn to draw conclusions from data and develop skills in industrial problems.
V	to determine the solution of the studied engineering problem from application point of view.

Course: Basic Electrical Engineering; Semester: 1st/2nd	
Course Code:- BTEE-101-18	NAAC Code:- ECE-104
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Have the knowledge of DC circuits, AC Circuits, basic magnetic circuits, working principles of electrical machines, and components of low voltage electrical installations.
II	Be able to analyze of DC circuits, AC Circuits.
III	Understand the basic magnetic circuits and apply it to the working of electrical machines.
IV	Be introduced to types of wiring, batteries, and LT switchgear.

Course: Basics of Electrical Engineering Laboratory; Semester: 1st/2nd	
Course Code:- BTEE-102-18	NAAC Code:- ECE-105
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	The ability to use common electrical measuring instruments and understand the fundamentals of electrical engineering.
II	The ability to make electrical connections and measure power, power factor using appropriate equipments.
III	Have the knowledge of electrical machines, components and their ratings.
IV	Understand the operation of transformers and electrical machines.

Course: Engineering Graphics & Design; Semester: 1st/2nd	
Course Code: BTME101-21	NAAC Code:-ECE-106
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Prepare and understand drawings.
II	Use the principles of orthographic projections.
III	By studying about projections of solids, students will be able to visualize three dimensional objects and that will enable them to design new products.
IV	Design and fabricate surfaces of different shapes.
V	Represent the objects in three dimensional appearances.

Course: Chemistry-I; Semester: 1st/2nd	
Course Code:- BTCH101-23	NAAC Code:- ECE-108
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Analyse microscopic chemistry in terms of atomic and molecular orbitals and intermolecular forces.
II	Rationalise bulk properties and processes using thermodynamics, periodic properties such as ionization potential, electronaffinity etc.
III	Distinguish the ranges of the electromagnetic spectrum used in various spectroscopic techniques.
IV	Rationalise periodic properties such as ionization potential, electronegativity, oxidation states and electronegativity.
V	List major chemical reactions that are used in the synthesis of molecules.

Course: Chemistry Lab-I ; Semester: 1st/2nd	
Course Code: BTCH102-18	NAAC Code:- ECE-109
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Estimate rate constants of reactions from concentration of reactants/products as a function of time
II	Measure molecular/system properties such as surface tension, viscosity, conductance of solutions, redox potentials, chloride content of water, etc
III	Synthesize a small drug molecule and analyse a salt sample

Course: Mathematics-II; Semester: 2nd	
Course Code: BTAM201-23	NAAC Code:-ECE-110
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	able to verify some of the theoretical concepts learnt in the theory courses.
II	trained to visualize and conceptualize the engineering problems.
III	to model the engineering problem mathematically using theory of matrices, ODE and PDE
IV	learn to draw conclusions from data and develop skills in industrial problems.
V	to determine the solution of the studied engineering problem from application point of view.

Course: Programming for Problem Solving; Semester: 1st/2nd	
Course Code:- BTPS101-18	NAAC Code:- ECE-111
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Describe algorithm, pseudo codes and programming structures.
II	Use syntax, semantics and different constructs to solve mathematical and logical problems in 'C' language.
III	Implement programs related to simple numerical method problems, namely root finding of function, differentiation of function and simple integration in 'C' language.
IV	Identify the role of simple data structures, pointers, memory allocation and data handling for various applications through files in 'C'.
V	Decompose a problem into functions and synthesize a complete program using divide and conquer approach.
VI	Describe various file related operations.

Course: Programming for Problem Solving Lab; Semester: 1st/2nd	
Course Code:- BTPS102-18	NAAC Code:- ECE-112
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the various hardware and software parts of computer system and define the basic working of Operating System.
II	Describe syntax, semantics and different constructs to solve mathematical and logical problems in 'C' language
III	Implement a simple program by writing the code, testing the code and debugging the program in 'C' Language.
IV	Represent data in arrays, strings and structures and manipulate them through a program.
V	Declare pointers of different types and use them in defining self referential structures.
VI	Implement programs to create, read and write to and from simple text files.

Course: Workshop/Manufacturing Practice; Semester: 1st/2nd	
Course Code:- BTMP101-18	NAAC Code:-ECE-113
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Upon completion of this laboratory course, students will be able to fabricate components with their own hands.
II	They will also get practical knowledge of the dimensional accuracies and dimensional tolerances possible with different manufacturing processes.
III	By assembling different components, they will be able to produce small devices of their interest.

Course: English; Semester: 1st/2nd	
Course Code:- BTHU-101-18	NAAC Code:- ECE-114
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	The objective of the course is to help the students become the independent users of English language.
II	Students will acquire basic proficiency in reading & listening, comprehension, writing and speaking skills.
III	Students will be able to understand spoken and written English language, particularly the language of their chosen technical field.
IV	They will be able to converse fluently.
V	They will be able to produce on their own clear and coherent texts.

Course: English-Lab; Semester: 1st/2nd	
Course Code:- BTHU-102-18	NAAC Code:- ECE-115
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	The objective of the course is to help the students become the independent users of English language.
II	Students will acquire basic proficiency in reading & listening, comprehension, writing and speaking skills.
III	Students will be able to understand spoken and written English language, particularly the language of their chosen technical field.
IV	They will be able to converse fluently.
V	They will be able to produce on their own clear and coherent texts.

Course Outcomes

Semester: 3rd

Course: Electronic Devices	
Course Code:- BTEC-301-18	
NAAC Code:-ECE-217	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand physics of semiconductors and behavior of charge carriers within semiconductors
II	Understand the working of semiconductor diodes supported with mathematical explanation.
III	Understand the working of BJT and MOSFET with their equivalent small signal models.
IV	Understand the chemical processes used in fabrication of integrated circuits

Course: Digital System Design	
Course Code:- BTEC-302-18	
NAAC Code:-ECE-218	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Apply concepts of Boolean algebra for handling logical expressions
II	Understand working and realization of combinational and sequential circuits.
III	Understand fundamental concepts of logic families and architectural of programmable devices.
IV	Use HDL programming tool for simulation of combinational & sequential circuits

Course: Electromagnetic Waves	
Course Code:- BTEC-303-18	
NAAC Code:-ECE-219	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand characteristics & wave propagation through transmission lines
II	Understand Maxwell's equations for electromagnetic waves
III	Characterize uniform plane wave.
IV	Calculate reflection and transmission of waves at media interface

Course: Network Theory	
Course Code:- BTEC-304-18	NAAC Code:-ECE-220
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Analyze linear networks using network theorems.
II	Use Laplace transform to analyze transient & steady state response of linear networks.
III	Comprehend network parameters to analyze two port networks.
IV	Realize one port networks using Foster's and Cauer's methods

Course: Mathematics III	
Course Code:- BTAM-303-18	NAAC Code:-ECE-221
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Apply Laplace transform for solving certain differential equations arising in mathematical modeling of various real-world phenomena.
II	Create Fourier series expansions of periodic functions, study of their properties and applications. Also to apply Fourier transform to deal with non-periodic functions.
III	Apply Z-transform for solving difference equations.
IV	Understand and deal with randomness occurring in real world phenomena.
V	Understand and utilize theory of probability, discrete and continuous distributions.
VI	Apply method of least squares in fitting of curves.

Course: Electronic Devices Lab	
Course Code:- BTEC-311-18	NAAC Code:-ECE-222
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Realize use of diodes in circuits with proper understanding to their working
II	Understand characteristics & working of BJT in different configurations.
III	Understand characteristics & working of MOSFET in circuits.
IV	Think and design working circuits based on diodes, BJTs and MOSFETs.

Course: Digital System Design Lab	
Course Code:- BTEC-311-18	NAAC Code:-ECE-223
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Realize combinational circuits using logic gates.
II	Realize sequential circuits using logic gates
III	Write & simulate VHDL programs for combinational & sequential circuits

IV	Think and design working projects using digital 74XX ICs.
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Course: Foundational Course in Humanities	
Course Code:- HSMC101-18	NAAC Code:-ECE-224
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	To develop strong natural familiarity with humanities along with the right understanding enabling them to eliminate conflict and strife in the individual society.
II	To describe political systems and different models of governing system.
III	To analyze the idea of economic development in pre and post-independence period.
IV	To interpret the idea of development in context to political, philosophical and spiritual study of economics.

Course Outcomes

Semester: 4th

Course: Analog Circuits	
Course Code:- BTEC-401-18	
NAAC Code:-ECE-227	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the biasing of transistors and analyze BJT/FET amplifiers.
II	Analyze various rectifier and amplifier circuits.
III	Analyze sinusoidal and non-sinusoidal oscillators.
IV	Understand various types of Power Amplifiers.

Course: Microprocessors and Microcontrollers	
Course Code:- BTEC-402-18	
NAAC Code:-ECE-228	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand architecture & functionalities of different building block of 8085 microprocessor.
II	Understand working of different building blocks of 8051 microcontroller.
III	Comprehend and apply programming aspects of 8051 microcontroller.
IV	Interface & interact with different peripherals and devices

Course: Data Structures and Algorithms	
Course Code:- BTCS-301-18	
NAAC Code:-ECE-229	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand operations like searching, insertion, deletion, traversing on linear Data Structures and to determine their computational complexities
II	Understand operations like searching, insertion, deletion, traversing on various nonlinear Data Structures and to determine their computational complexities
III	Write algorithms for Selection Sort, Bubble Sort, Insertion Sort, Quick Sort, Merge Sort, Heap Sort and compare their performance in term of Space and Time complexity.
IV	Apply appropriate Data Structure as per specific problem definition

Course: Signals & Systems	
Course Code:- BTEC-403-18	NAAC Code:-ECE-230
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Mathematically characterize different types of signals and systems.
II	Analyze the behavior of linear-shift invariant systems.
III	Apply concepts of Fourier and Laplace Transforms to analyze continuous-time signals and systems.
IV	Investigate discrete-time signals and systems using Discrete-Time Fourier and Z-Transforms and simple Probability concepts.

Course: Universal Human Values – 2: Understanding Harmony	
Course Code:- HSMC122-18	NAAC Code:-ECE-231
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Students understanding ‘VALUES’ and ‘SKILLS’ as complimentary would mould themselves into engineers, who would enjoy their work and become more efficient
II	Current problem of students of not to withstand the pressure due to work load would be solved.
III	Student would work with team spirit rather than in competition in professional as well as in personal life.
IV	While designing and applying technology, nurture and protection of nature would become the key parameter of the student.
V	Holistic understanding would lead student to become more sensitive towards societal and environmental issues.

Course: Environmental Sciences	
Course Code:- EVS-101-18	NAAC Code:-ECE-232
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Students will enable to understand environmental problems at local and national level through literature and general awareness.
II	The students will gain practical knowledge by visiting wildlife areas, environmental institutes and various personalities who have done practical work on various environmental Issues
III	The students will apply interdisciplinary approach to understand key environmental issues and critically analyze them to explore the possibilities to mitigate these problems.
IV	Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world

Course: Analog Circuits Lab	
Course Code:- BTEC-411-18	NAAC Code:-ECE-233
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Study and verify the characteristics of diodes/BJTs in circuits with proper understanding to their working.
II	Understand frequency response & working of various types of Oscillators.
III	Understand characteristics & working of Power amplifiers.
IV	Think and design working circuits based on diodes, BJTs and MOSFETs.

Course: Microprocessors and Microcontrollers Lab	
Course Code:- BTEC-412-18	NAAC Code:-ECE-234
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Write programs for common arithmetic operations with 8-bit/16-bit numbers using 8085.
II	Write programs for transfer, sort block of data with 8085/8086 processor(s).
III	Write programs for controlling stepper and DC motors using Microprocessor(s).
IV	Write programs to generate waveforms and interface ADC and DAC using of 8051 Microcontroller.

Course Outcomes

Semester: 5th

Course: Analog and Digital Communication	
Course Code:- BTEC-501-18	NAAC Code:-ECE-336
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Analyze and compare different analog modulation schemes for their efficiency and bandwidth
II	Analyze the behavior of a communication system in presence of noise
III	Investigate pulsed modulation system and analyze their system performance
IV	Analyze different digital modulation schemes and can compute the bit error performance

Course: Digital Signal Processing	
Course Code:- BTEC-502-18	NAAC Code:ECE-337
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Represent signals mathematically in continuous and discrete time and frequency domain
II	Get the response of an LSI system to different signals
III	Design of different types of digital filters for various applications

Course: Linear Integrated Circuits	
Course Code:- BTEC-503-18	NAAC Code:ECE -338
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand Differential and Cascade Amplifiers
II	Know the basics, working and characteristics of Op-Amps
III	Investigate various applications of Op-amps
IV	Understand some specialized Op-Amps
V	Interpretation of Data Sheets and their Applications thereof

Course: Control Systems	
Course Code:- BTEC-504-18	NAAC Code:ECE-339
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Characterize a system and find its study state behaviour
II	Investigate stability of a system using different tests
III	Design various controllers
IV	Solve linear, non-linear and optimal control problems

Course: Routing and Switching	
Course Code:- BTEC-905A-18	NAAC Code:ECE-340
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Demonstrate a basic understanding of small and medium-sized networks, including general network technologies.
II	Ability to assist the design of small and medium-sized networks, and implement the designs.
III	Ability to construct simple networks and integrate voice, wireless, cloud, security, and storage technologies into their networks in order to support a variety of applications

Course: Project Management	
Course Code:- BTEC-505-18	NAAC Code:ECE-341
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Study the basic concepts of Project Management
II	Learn about Project selection and organisation. .
III	Understand Project planning and scheduling.
IV	Learn about Project Monitoring, control and performance

Course: Analog and Digital Communication Laboratory	
Course Code:- BTEC-511-18	NAAC Code:ECE-342
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Study and verify the characteristics and output waveforms of AM, FM, PCM
II	Study and compare noise in AM and FM systems
III	Investigate the output responses of PAM, PCM, PSK, FSK, MSK.

Course: Digital Signal Processing Laboratory	
Course Code:- BTEC-512-18	NAAC Code:ECE-343
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Write programs to develop various signals. .
II	Write programs to generate standard sequences.
III	Develop programs to verify convolution
IV	Develop programs to design various filters

Course: Linear Integrated Circuits Laboratory	
Course Code:- BTEC-513-18	NAAC Code:ECE-344
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Study and investigate the configurations of Differential amplifiers.
II	Measure the performance parameters of an OP-Amp.
III	Use Op-Amps for various applications.

Course Outcomes

Semester: 6th

Course: Wireless Communication	
Course Code:- BTEC-601-18	NAAC Code:-ECE-348
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the basic elements of Cellular Radio Systems and its design.
II	Learn about the concepts Digital communication through fading multipath channels.
III	Understand various Multiple Access techniques for Wireless communication.
IV	Know about the Wireless standards and systems.

Course: Computer Networks	
Course Code:- BTCS-504-18	NAAC Code:-ECE-349
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Explain the functions of the different layer of the OSI Protocol.
II	Describe the function of each block of wide-area networks (WANs), local area networks (LANs) and Wireless LANs (WLANs)
III	Develop the network programming for a given problem related TCP/IP protocol.
IV	Learn about DNS DDNS, TELNET, EMAIL, File Transfer Protocol (FTP), WWW, HTTP, SNMP, Bluetooth, Firewalls using open source available software and tools.

Course: Optical Fibers & Communication	
Course Code:- BTEC-602-18	NAAC Code:-ECE-350
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the basics of Optical Communication and Optical fibres.
II	Learn about the Optical Transmitters and Receivers.
III	Explain the Light wave Architecture and systems.
IV	Ability to explain the manufacturing, modulation and wave mixing in Optical Communication

Course: Microwave and Antenna Engineering	
Course Code:- BTEC-603-18	NAAC Code:-ECE-351
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the working and operation of various Microwave Tubes and Microwave Solid state devices.
II	Learn about various important Microwave Components and the Microwave measurements that can be carried out.
III	Explain the basic concepts and types of Antennas and its regions.
IV	Describe the important concepts of Antenna Arrays and Antenna Aperture.

Course: Professional Elective-2 (WLAN & Security)	
Course Code:- BTEC-906A-18	NAAC Code:-ECE-352
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Develop an understanding WLAN and its architecture.
II	Understand the gap between wired and wireless networks.
III	Build the knowledge of security building blocks which enable them to solve the problems of designing security solutions in wireless networks.
IV	Learn the wireless LAN authentication protocols in detail, and enhance the skills of configuring a secure wireless network.

Course: Optical Fibres & Communication Lab	
Course Code:- BTEC-611-18	NAAC Code:-ECE-354
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	To perform experiments based on optical communication in order to understand in depth concepts of latest communication system.
II	To study various types of optical sources and light detectors.
III	To know methods of slicing and connecting techniques of optical fibres.
IV	To study different types of losses in optical fibres.
V	To know applications of optical fibres.

Course: Microwave and Antenna Engineering Lab	
Course Code:- BTEC-612-18	NAAC Code:-ECE-355
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Learn about general Microwave components and Microwave bench.
II	Measure common parameters related to Microwave Oscillator(s).
III	Determine frequency and wavelength of waveguides.
IV	Measure and plot radiation patterns of various types of Antennas.

Course Outcomes

Semester: 7th

Course: Professional Elective-3 (Internet of Things & Cloud Computing)	
Course Code:- BTEC-907A-18	
NAAC Code:-ECE-459	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understanding concept of cloud computing and analyze trade-off between deploying application on cloud and using local infrastructure.
II	Identify issues and design challenges in IoT applications.
III	Select appropriate hardware and software components for IoT applications.
IV	Conceptual knowledge will help students to build IOT applications.

Course: Professional Elective-4 (Artificial Intelligence)	
Course Code:- BTEC-908A-18	
NAAC Code:-ECE-460	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Learn about the basic understanding of Artificial Intelligent system.
II	Explain about various types of Artificial Neural Networks & their models.
III	Describe Artificial Neural networks methods, operation and parameters.
IV	Explore Neural Network MATLAB Toolbox.

Course: Professional Elective-5 (Big Data Fundamentals)	
Course Code:- BTEC-909A-18	
NAAC Code:-ECE-461	
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the Evolution and basics of Big Data.
II	Understand the Architecture of Hadoop with its file system and its Programming.
III	Explain the Advanced analytical theory and methods.
IV	Describe the challenges in handling streaming data from the real world.

Course: Open Elective-2 (Computer Organization & Architecture)	
Course Code:- BTES401-18	NAAC Code:-ECE-462
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand functional block diagram of microprocessor.
II	Apply instruction set for writing assembly language programs.
III	Design a memory module and analyze its operation by interfacing with the CPU.
IV	Classify hard wired and micro-programmed control unit.
V	Understand the concept of pipelining and its performance matrix.

Course: Open Elective-3 (Road Safety)	
Course Code:- OECE-703-18	NAAC Code:-ECE-463
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Demonstrate the fundamentals of Traffic Characteristics and studies and interpret the results using appropriate method.
II	Explain the causes and effects of an accidents and make use of the knowledge to arrive the solutions and risk management.
III	Examine the requirements of road geometrics, vehicle & human characteristics for preparing the safety plan for road transportation.
IV	Analyze the requirements of geometric designs for the urban roads to prepare the road safety plan and suggests sustainable modes of urban transport.
V	Undertake road safety audits and design suitable alternatives.

Course: Mandatory Courses (Indian Constitution)	
Course Code:- BTMC-101-18	NAAC Code:-ECE-464
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Understand the different dimensions of Indian Political System.
II	They will be aware about their duties towards the fellow citizens.
III	Students will be able to challenges of the democratic institutions and theoretical aspects of the state and its organs.

Course: Essence of Indian Traditional Knowledge	
Course Code:- BTMC-102-18	NAAC Code:-ECE-465
CO No.	COs(Course Outcomes): On the successful completion of course, students will be able to:
I	Ability to understand connect up and explain basics of Indian traditional Knowledge in Modern scientific perspective.
II	Ability to understand connects up and explain basics of Indian traditional Knowledge in Modern scientific perspective.



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