

## COURSE OUTCOMES - 2022 SCHEME

### 1<sup>st</sup> Semester-B section (ECE)

<b>Subject:</b>	Mathematics-I for Electrical & Electronics Engineering Stream		
<b>Subject Code:</b>	BMATE101	<b>NBA Code:</b>	BSEC101
<b>CO1</b>	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions		
<b>CO2</b>	Analyze the solution of linear and nonlinear ordinary differential equations		
<b>CO3</b>	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume		
<b>CO4</b>	Make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors		
<b>CO5</b>	Familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/ PYTHON/SCILAB		

<b>Subject:</b>	Applied Physics for EEE Stream		
<b>Subject Code:</b>	BPHYE102	<b>NBA Code:</b>	BSEC102
<b>CO1</b>	Describe the fundamental principles of the Quantum Mechanics and the essentials of Photonics.		
<b>CO2</b>	Elucidate the concepts of conductors, dielectrics and superconductivity		
<b>CO3</b>	Discuss the fundamentals of vector calculus and their applications in Maxwell's Equations and EM Waves.		
<b>CO4</b>	Summarize the properties of semiconductors and the working principles of semiconductor devices.		
<b>CO5</b>	Practice working in groups to conduct experiments in physics and Perform precise and honest measurements.		

<b>Subject:</b>	Basic Electronics (For ECE and Allied Branches)		
<b>Subject Code:</b>	BBEE103/203	<b>NBA Code:</b>	BSEC103
<b>CO1</b>	Develop the basic knowledge on construction, operation and characteristics of semiconductor devices.		
<b>CO2</b>	Apply the acquired knowledge to construct small scale circuits consisting of semiconductor devices		
<b>CO3</b>	Develop competence knowledge to construct basic digital circuit by make use of basic gate and its function.		
<b>CO4</b>	Construct the conceptual blocks for basic communication system.		
<b>CO5</b>	Apply the knowledge of various transducers principle in sensor system.		

<b>Subject:</b>	Introduction To Mechanical Engineering		
<b>Subject Code:</b>	BESCK104D/204D	<b>NBA Code:</b>	BSCS104
<b>CO1</b>	Explain the concepts of Role of Mechanical Engineering and Energy sources.		
<b>CO2</b>	Describe the Machine Tool Operations and advanced Manufacturing process.		
<b>CO3</b>	Explain the Working Principle of IC engines and EV vehicles.		
<b>CO4</b>	Discuss the Properties of Common Engineering Materials and various Metal Joining Processes.		
<b>CO5</b>	Explain the Concepts of Mechatronics, Robotics and Automation in IoT		

<b>Subject:</b>	Introduction to Internet of Things (IOT)		
<b>Subject Code:</b>	BETCK105H/205H	<b>NBA Code:</b>	BSEC105
<b>CO1</b>	Describe the evolution of IoT, IoT networking components, and addressing strategies in IoT.		
<b>CO2</b>	Classify various sensing devices and actuator types.		
<b>CO3</b>	Demonstrate the processing in IoT.		
<b>CO4</b>	Explain Associated IOT Technologies		
<b>CO5</b>	Illustrate architecture of IOT Applications		

<b>Subject:</b>	Communicative English		
<b>Subject Code:</b>	BENGK106	<b>NBA Code:</b>	BSEC106
<b>CO1</b>	Understand and apply the Fundamentals of Communication Skills in their communication skills.		
<b>CO2</b>	Identify the nuances of phonetics, intonation and enhance pronunciation skills.		
<b>CO3</b>	To impart basic English grammar and essentials of language skills as per present requirement.		
<b>CO4</b>	Understand and use all types of English vocabulary and language proficiency.		
<b>CO5</b>	Adopt the Techniques of Information Transfer through presentation.		

<b>Subject:</b>	Indian Constitution		
<b>Subject Code:</b>	BICOK107-207	<b>NBA Code:</b>	BSCS107
<b>CO1</b>	Analyse the basic structure of Indian Constitution.		
<b>CO2</b>	Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our constitution.		
<b>CO3</b>	Know about our Union Government, political structure & codes, procedures.		
<b>CO4</b>	Understand our State Executive & Elections system of India.		
<b>CO5</b>	Remember the Amendments and Emergency Provisions, other important provisions given by the constitution.		

<b>Subject:</b>	Innovation and Design Thinking		
<b>Subject Code:</b>	BIDTK158/258	<b>NBA Code:</b>	BSEC108
<b>CO1</b>	Appreciate various design process procedure		
<b>CO2</b>	Generate and develop design ideas through different technique		
<b>CO3</b>	Identify the significance of reverse Engineering to Understand		
<b>CO4</b>	Draw technical drawing for design ideas		

## COURSE OUTCOMES - 2022 SCHEME

### 2<sup>nd</sup> Semester-B section (ECE)

<b>Subject:</b>	Mathematics-II for Electrical & Electronics Engineering Stream		
<b>Subject Code:</b>	BMATE201	<b>NBA Code:</b>	BSEC109
<b>CO1</b>	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions		
<b>CO2</b>	Analyze the solution of linear and nonlinear ordinary differential equations		
<b>CO3</b>	Get acquainted and to apply modular arithmetic to computer algorithms		
<b>CO4</b>	Make use of matrix theory for solving the system of linear equations and compute		
<b>CO5</b>	Familiarize with modern mathematical tools namely		

<b>Subject:</b>	Chemistry for Electrical and Electronics Engineering stream		
<b>Subject Code:</b>	BCHEE202	<b>NBA Code:</b>	BSEC110
<b>CO1</b>	Identify the terms and applications processes involved in scientific and engineering		
<b>CO2</b>	Explain the phenomena of chemistry to describe the methods of engineering processes		
<b>CO3</b>	Solve the problems in chemistry that are pertinent in engineering applications		
<b>CO4</b>	Apply the basic concepts of chemistry to explain the chemical properties and processes		
<b>CO5</b>	Analyze proper ties and multidisciplinary situations processes associated with chemical substances in properties and multidisciplinary situations		

<b>Subject:</b>	Computer Aided Engineering Drawing		
<b>Subject Code:</b>	BCEDK203	<b>NBA Code:</b>	BSEC111
<b>CO1</b>	Draw and communicate the objects with definite shape and dimensions		
<b>CO2</b>	Recognize and Draw the shape and size of objects through different views		
<b>CO3</b>	Develop the lateral surfaces of the object		
<b>CO4</b>	Create a Drawing views using CAD software.		

<b>Subject:</b>	Introduction to Civil Engineering		
<b>Subject Code:</b>	BESCK204A	<b>NBA Code:</b>	BSEC112
<b>CO1</b>	Understand the various disciplines of civil engineering		
<b>CO2</b>	Understand the infrastructure requirement for sustainable development		
<b>CO3</b>	Compute the resultant and equilibrium of force systems.		
<b>CO4</b>	Locate the centroid of plane and built-up sections		

<b>Subject:</b>	Introduction to C++ Programming		
<b>Subject Code:</b>	BPLCK105D/BPLCK205D	<b>NBA Code:</b>	BSEC113
<b>CO1</b>	Able to understand and design the solution to a problem using object-oriented programming concepts.		
<b>CO2</b>	Able to reuse the code with extensible Class types, User-defined operators and function Overloading.		
<b>CO3</b>	Achieve code reusability and extensibility by means of Inheritance and Polymorphism		
<b>CO4</b>	Implement the features of C++ including templates, exceptions and file handling for providing programmed solutions to complex problems.		

<b>Subject:</b>	Professional Writing Skills in English		
<b>Subject Code:</b>	BPWSK206	<b>NBA Code:</b>	BSEC114
<b>CO1</b>	To understand and identify the Common Errors in Writing and Speaking.		
<b>CO2</b>	To Achieve better Technical writing and Presentation skills.		
<b>CO3</b>	To read Technical proposals properly and make them to Write good technical reports.		
<b>CO4</b>	Acquire Employment and Workplace communication skills.		
<b>CO5</b>	To learn about Techniques of Information Transfer through presentation in different level		

<b>Subject:</b>	ಬಳ್ಳೇ ಕನಡೆ		
<b>Subject Code:</b>	BKBKK207	<b>NBA Code:</b>	BSEC115 II
<b>CO1</b>	To understand the necessity of learning of local language for comfortable life.		
<b>CO2</b>	To speak, read and write Kannada language as per requirement.		
<b>CO3</b>	To communicate (converse) in Kannada language in their daily life with kannada speakers.		
<b>CO4</b>	To Listen and understand the Kannada language properly.		
<b>CO5</b>	To speak in polite conversation.		

<b>Subject:</b>	ಇಂಗ್ಲಿಷ್ ಕನಡೆ		
<b>Subject Code:</b>	BKSKK207	<b>NBA Code:</b>	BSEC115 I
<b>CO1</b>	ಕನ್ನಡ ಭಾಷೆ, ಸಾಹಿತ್ಯ ಮತ್ತು ಕನ್ನಡದ ಸಂಸ್ಕೃತಿಯ ಕುರಿತು ಅರಿವು ಮೂಡಿರುತ್ತದೆ.		
<b>CO2</b>	ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಧಾನ ಭಾಗವಾದ ಆಧುನಿಕ ಪೂರ್ವ ಮತ್ತು ಆಧುನಿಕ ಕಾವ್ಯಗಳನ್ನು ಸಾಂಕೇತಿಕವಾಗಿ ಕಲಿತು ಹೆಚ್ಚಿನ ಓದಿಗೆ ಮತ್ತು ಜ್ಞಾನಕ್ಕೆ ಸೂಕ್ತ ಮೂಡುತ್ತದೆ.		
<b>CO3</b>	ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಬಗ್ಗೆ ಅರಿವು ಹಾಗೂ ಆಸಕ್ತಿಯನ್ನು ಹೆಚ್ಚಿಸುತ್ತದೆ.		
<b>CO4</b>	ತಾಂತ್ರಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯ ಹಾಗೂ ಅವರುಗಳ ಸಾಧಿಸಿದ ವಿಷಯಗಳನ್ನು ತಿಳಿದುಕೊಂಡು ನಾಡಿನ ಇನ್ನಿತರ ವ್ಯಕ್ತಿಗಳ ಬಗ್ಗೆ ತಿಳಿದುಕೊಳ್ಳಲು ಕೌತುಕ ಹೆಚ್ಚಿಸುತ್ತದೆ.		
<b>CO5</b>	ಸಾಂಸ್ಕೃತಿಕ, ಜನಪದ ಹಾಗೂ ಪ್ರವಾಸ ಕಥನಗಳ ಪರಿಚಯ ಮಾಡಿಕೊಡುವುದು.		

<b>Subject:</b>	Scientific Foundations of Health		
<b>Subject Code:</b>	BSFHK258	<b>NBA Code:</b>	BSEC116
<b>CO1</b>	To understand and analyse about Health and wellness (and its Beliefs) & It's balance for positive mindset.		
<b>CO2</b>	Develop the healthy lifestyles for good health for their better future.		
<b>CO3</b>	Build a Healthy and caring relationships to meet the requirements of good/social/positive life.		
<b>CO4</b>	To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future.		
<b>CO5</b>	Prevent and fight against harmful diseases for good health through positive mindset.		