COURSE OUTCOMES - 2022 SCHEME

1st Semester-D section (CE)

Subject:	Mathematics-I for CIVIL Engineering stream		
Subject Code:	BMATC101	**NBA Code:**	BSCV101
CO1	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume.		
CO2	Understand the applications of vector calculus refer to solenoidal, and irrotational vectors. Orthogonal curvilinear coordinates.		
CO3	Demonstrate the idea of Linear dependence and independence of sets in the vector space, and linear transformation		
CO4	Demonstrate the idea of Linear dependence and independence of sets in the vector space, and linear transformation		
CO5	Get familiarize with modern mathematical tools namely MATHEMATICA/ MATLAB /PYTHON/ SCILAB		

Subject:	Applied Chemistry for Civil Engineering stream		
Subject Code:	BCHEC102 /202	**NBA Code:**	BSCV102
CO1	Identify the terms and applications processes involved in scientific and engineering		
CO2	Explain the phenomena of chemistry to describe the methods of engineering processes		
CO3	Solve the problems in chemistry that are pertinent in engineering applications		
CO4	Apply the basic concepts of chemistry to explain the chemical properties and processes		
CO5	Analyze proper ties and multidisciplinary situations processes associated with chemical substances in properties and multidisciplinary situations		

Subject:	Computer Aided Engineering Drawing		
Subject Code:	BCEDK103	**NBA Code:**	BSCV103
CO1	Draw and communicate the objects with definite shape and dimensions		
CO2	Recognize and Draw the shape and size of objects through different views		
CO3	Develop the lateral surfaces of the object		
CO4	Create a Drawing views using CAD software.		
CO5	Identify the interdisciplinary engineering components or systems through its graphical representation.		

Subject:	Introduction to Mechanical Engineering		
Subject Code:	BESCK104D/204D	**NBA Code:**	BSCV104
CO1	Explain the concepts of Role of Mechanical Engineering and Energy sources.		
CO2	Describe the Machine Tool Operations and advanced Manufacturing process.		
CO3	Explain the Working Principle of IC engines and EV vehicles.		
CO4	Discuss the Properties of Common Engineering Materials and various Metal Joining Processes.		
CO5	Explain the Concepts of Mechatronics, Robotics and Automation in IoT		

Subject:	Renewable Energy Sources		
Subject Code:	BETCK105E/205E	**NBA Code:**	BSCV105
CO1	Describe the environmental aspects of renewable energy resources. In Comparison with various conventional energy systems, their prospects and limitations		
CO2	Describe the use of solar energy and the various components used in the energy production with respect to applications like-heating, cooling, desalination, power generation.		
CO3	Understand the conversion principles of wind and tidal energy		
CO4	Understand the concept of biomass energy resources and green energy		
CO5	Acquire the basic knowledge of ocean thermal energy conversion and hydrogen energy.		

Subject:	Communicative English		
Subject Code:	BENGK106	**NBA Code:**	BSCV106
CO1	Understand and apply the Fundamentals of Communication Skills in their communication skills.		
CO2	Identify the nuances of phonetics, intonation and enhance pronunciation skills.		
CO3	To impart basic English grammar and essentials of language skills as per present requirement.		
CO4	Understand and use all types of English vocabulary and language proficiency.		
CO5	Adopt the Techniques of Information Transfer through presentation.		

Subject:	ಬಳಃ ಕನ್ನಡ		
Subject Code:	BKBKK107	**NBA Code:**	BSCV107 II
CO1	To understand the necessity of learning of local language for comfortable life.		
CO2	To speak, read and write Kannada language as per requirement.		
CO3	To communicate (converse) in Kannada language in their daily life with kannada speakers.		
CO4	To Listen and understand the Kannada language properly.		
CO5	To speak in polite conservation.		

Subject:	□ಂಸಜ್ಞೆಂ೧ಂಕ ಕನ೬ಡ		
Subject Code:	BKSKK207	**NBA Code:**	BSCV107 I
CO1	ಕನ್ನಡ ಭಾಷೆ, ಸಾಹಿತ್ಯ ಮತ್ತು ಕನ್ನಡದ ಸಂಸ್ಕೃತಿಯ ಕುರಿತು ಅರಿವು ಮೂಡಿರುತ್ತದೆ.		
CO2	ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಧಾನ ಭಾಗವಾದ ಆಧುನಿಕ ಪೂರ್ವ ಮತ್ತು ಆಧುನಿಕ ಕಾವ್ಯಗಳನ್ನು ಸಾಂಕೇತಿಕವಾಗಿ ಕಲಿತು ಹೆಚ್ಚಿನ ಓದಿಗೆ ಮತ್ತು ಜ್ಞಾನಕ್ಕೆ ಸ್ಫೂರ್ತಿ ಮೂಡುತ್ತದೆ.		
CO3	ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಬಗ್ಗೆ ಅರಿವು ಹಾಗೂ ಆಸಕ್ತಿಯನ್ನು ಹೆಚ್ಚಾಗುತ್ತದೆ.		
CO4	ತಾಂತ್ರಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯ ಹಾಗೂ ಅವರುಗಳ ಸಾಧಿಸಿದ ವಿಷಯಗಳನ್ನು ತಿಳಿದುಕೊಂಡು ನಾಡಿನ ಇನ್ನಿತರ ವ್ಯಕ್ತಿಗಳ ಬಗ್ಗೆ ತಿಳಿದುಕೊಳ್ಳಲು ಕೌತುಕತೆ ಹೆಚ್ಚಾಗುತ್ತದೆ.		
CO5	ಸಾಂಸ್ಕೃತಿಕ, ಜನಪದ ಹಾಗೂ ಪ್ರವಾಸ ಕಥನಗಳ ಪರಿಚಯ ಮಾಡಿಕೊಡುವುದು.		

Subject:	Scientific Foundations of Health		
Subject Code:	BSFHK158	**NBA Code:**	BSCV108
CO1	To understand and analyse about Health and wellness (and its Beliefs) & It's balance for positive mindset.		
CO2	Develop the healthy lifestyles for good health for their better future.		
CO3	Build a Healthy and caring relationships to meet the requirements of good/social/positive life.		
CO4	To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future.		
CO5	Prevent and fight against harmful diseases for good health through positive mindset.		

COURSE OUTCOMES - 2022 SCHEME

2nd Semester-D section (CE)

Subject:	Mathematics-II for Civil Engineering stream		
Subject Code:	BMATC201	**NBA Code:**	BSCV110
CO1	Apply the knowledge of multiple integrals to compute area and volume.		
CO2	Understand the applications of vector calculus refer to solenoidal, irrotational vectors, line integral and surface integral.		
CO3	Demonstrate partial differential equations and their solutions for physical interpretations.		
CO4	Apply the knowledge of numerical methods in solving physical and engineering		
CO5	Get familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/SCILAB		

Subject:	Applied Physics for CV Stream		
Subject Code:	BPHYC102/202	**NBA Code:**	BSCV110
CO1	Elucidate the concepts in oscillations, waves, elasticity and material failures		
CO2	Summarize concepts of acoustics in buildings and explain the concepts in radiation and photometry		
CO3	Discuss the principles photonic devices and their application relevant to civil engineering.		
CO4	Describe the various natural hazards and safety precautions.		
CO5	Practice working in groups to conduct experiments in physics and perform precise and honest measurements.		

Subject:	Engineering Mechanics		
Subject Code:	BCIVC103/203	**NBA Code:**	BSME111
CO1	Compute the resultant of a force system and resolution of a force		
CO2	Comprehend the action for forces, moments, and other types of loads on rigid bodies and compute the reactive forces		
CO3	Analyse the frictional resistance offered by different planes		
CO4	Locate the centroid and compute the moment of inertia of sections		
CO5	Analyze the bodies in motion		

Subject:	Introduction to Electronics & Communication		
Subject Code:	BESCK104C/204C	**NBA Code:**	BSME112
CO1	Describe the concepts of electronic circuits encompassing power supplies, amplifiers and oscillators.		
CO2	Present the basics of digital logic engineering including data representation, circuits and the microcontroller system with associated sensors and actuators		
CO3	Discuss the characteristics and technological advances of embedded systems.		
CO4	Relate to the fundamentals of communication engineering spanning from the frequency spectrum to the various circuits involved including antennas.		
CO5	Explain the different modes of communications from wired to wireless and the computing involved.		

Subject:	Introduction to Python Programming		
Subject Code:	BPLCK205B	**NBA Code:**	BSCV113
CO1	Demonstrate proficiency in handling loops and creation of functions.		
CO2	Identify the methods to create and manipulate lists, tuples and dictionaries.		
CO3	Develop programs for string processing and file organization		
CO4	Interpret the concepts of Object-Oriented Programming as used in Python.		

Subject:	Professional Writing Skills in English		
Subject Code:	BPWSK206	**NBA Code:**	BSCV114
CO1	To understand and identify the Common Errors in Writing and Speaking.		
CO2	To Achieve better Technical writing and Presentation skills.		
CO3	To read Technical proposals properly and make them to Write good technical reports.		
CO4	Acquire Employment and Workplace communication skills.		
CO5	To learn about Techniques of Information Transfer through presentation in different level		

Subject:	Indian Constitution		
Subject Code:	BICOK107-207	**NBA Code:**	BSCV115
CO1	Analyse the basic structure of Indian Constitution.		
CO2	Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our constitution.		
CO3	Know about our Union Government, political structure & codes, procedures.		
CO4	Understand our State Executive & Elections system of India.		
CO5	Remember the Amendments and Emergency Provisions, other important provisions given by the constitution.		

Subject:	Innovation and Design Thinking		
Subject Code:	BIDTK158/258	**NBA Code:**	BSCV116
CO1	Appreciate various design process procedure		
CO2	Generate and develop design ideas through different technique		
CO3	Identify the significance of reverse Engineering to Understand		
CO4	Draw technical drawing for design ideas		