DEPARTMENT OF BASIC SCIENCES

Bearys Knowledge Campus, Lands End, Innoli, Near Mangalore University, Mangalore – 574199

COURSE OUTCOMES - 2022 SCHEME

1st Semester-D section (ME)

Subject:	Mathematics-I for Mechanical Engineering stream		
Subject Code:	BMATM101	NBA Code:	BSME101
CO1	Apply the knowledge of calculus to solve problems related to polar curves.		
CO2	Learn the notion of partial differentiation to compute rate of change of multivariate functions.		
CO3	Analyze the solution of linear and equations.	non-linear ordi	nary differential
CO4	Make use of matrix theory for solving the system of linear equations and compute		
CO5	Familiarize with modern mathematical MATLAB/ PYTHON/SCILAB	tools namely M	ATHEMATICA/

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 multidisciplinar with chemical substances in properties as		

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		
COS	its graphical representation.		



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Subject:	Renewable Energy Sources			
Subject Code:	BETCK105E	NBA Code:	BSME104	
	Describe the environmental aspects of renewable energy resources.			
CO1	Comparison with various conventional er	nergy systems, th	neir prospects and	
	limitations			
	Describe the use of solar energy and the various components used in the			
CO2	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:	Introduction to C Programming		
Subject Code:	BESCK104E/204E	NBA Code:	BSME105
CO1	Elucidate the basic architecture and functionalities of a computer and also recognize the hardware parts.		
CO2	Apply programming constructs of C language to solve the real world problem		
CO3	Explore user-defined data structures like arrays in implementing solutions to problems like searching and sorting		
CO4	Explore user-defined data structures like structures, unions and pointers in implementing solutions		
CO5	Design and Develop Solutions to proble constructs using functions	ems using modu	ılar programming

Subject:	Communicative English		
Subject Code:	BENGK106	NBA Code:	BSME106
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 es present requirement.	sentials of lang	uage skills as per
CO4	Understand and use all types of Eng proficiency.	glish vocabular	y and language
CO5	Adopt the Techniques of Information Tra	ansfer through p	resentation.

Subject:	ಬಳಃ ಕನ೬ಡ		
Subject Code:	BKBKK107 NBA Code: BSME107 II		
CO1	To understand the necessity of learning of local language for comfortable life.		
COI			
CO2	To speak, read and write Kannada language as per requirement.		
CO3	To communicate (converse) in Kannada language in their daily life with		eir daily life with
COS	kannada speakers.		
CO4	To Listen and understand the Kannada language properly.		
CO5	To speak in polite conservation.		



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Subject:	□ಂಸಪೈ∙0∘ಕ ಕನ೬ಡ		
Subject Code:	BKSKK207	NBA Code:	BSME107 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:	BSME108
CO1	To understand and analyse about Health and wellness (and its Beliefs		
COI	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		
COS	good/social/positive life.		
CO4	To learn about Avoiding risks and harmful habits in their campus		
CO4	outside the campus for their bright future.		
CO5	Prevent and fight against harmful diseases	s for good healtl	n through positive
	mindset.		

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COURSE OUTCOMES - 2022 SCHEME

2nd Semester-D section (ME)

Subject:	Mathematics-II for Civil Engineering stream			
Subject Code:	BMATM201	NBA Code:	BSME109	
CO1	Apply the knowledge of multiple integra	ls to compute ar	ea and volume.	
CO2	Understand the applications of vecto	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 ME Stream		
Subject Code:	BPHYM202	NBA Code:	BSME110
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.		ysics and perform

Subject:	Elements Of Mechanical Engineering			
Subject Code:	BEMEM103/203 NBA Code: BSME111			
CO1	Explain the role of mechanical engineering in industry and society, fundamentals of steam and non-conventional energy sources			
CO2	Describe different conventional and advanced machining processes, IC engines, propulsive devices, air-conditioning, refrigeration.			
CO3	Explain different gear drives, gear trains, aspects of future mobility and fundamentals of robotics			
CO4	Determine the condition of steam and its energy, performance parameters of IC engines, velocity ratio and power transmitted through power transmission systems.			



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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:	BSME114
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:	BSME115
CO1	Analyse the basic structure of Indian Constitution.		
CO2	Remember their Fundamental Rights, DPSP's and Fundamental Duties		
CO2	(FD's) of our constitution.		
CO3	Know about our Union Government	, political stru	acture & 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:	BSME116
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		



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