



R.T.E. SOCIETY'S
RURAL ENGINEERING COLLEGE,
HULKOTI-582 205.

(Approved by A.I.C.T.E.(New Delhi) Affiliated to V. T. U. Belagavi)

Ph No. 08372-289097
08372-289253
Fax: 08372-289427

E-mail: principalrechkt@rediffmail.com
(ESTD-1980)

Dist. Gadag

State: Karnataka

DEPARTMENT OF SCIENCE & HUMANITY

COURSE OUTCOMES

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: Calculus & Differential Equations(21MAT11) Year: 2021-22

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| CO1 | Student will be able to apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve. |
| CO2 | Student will be able to learn the notion of partial differentiation to calculate rate of change of multivariate functions and solve problems related to composite functions and jacobian. |
| CO3 | Student will be able to solve first-order linear/nonlinear ordinary differential equations analytically using standard methods |
| CO4 | Student will be able to demonstrate various models through higher order differential equations and solve such linear ordinary differential equations. |
| CO5 | Student will be able to test the consistency of a system of linear equations and to solve them by direct and iterative methods. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: Engineering Physics(21PHY12/22) Year: 2021-22

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| CO1 | Student will be able to interpret the types of mechanical vibrations and their applications, the role of shock waves in various fields. |
| CO2 | Student will be able to demonstrate the quantisation of energy for microscopic system. |
| CO3 | Student will be able to apply laser and optical fibers in opto electronic system. |
| CO4 | Student will be able to illustrate merits of quantum free electron theory and applications of hall effect. |
| CO5 | Student will be able to analyse the importance of xrd and electron microscopy in nano material characterization. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: BASIC ELECTRICAL ENGINEERING(21ELE13/23) Year: 2021-22

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| CO1 | Student will be able to analyse basic dc and ac electric circuits. |
| CO2 | Student will be able to explain the working principles of transformers and electrical machines. |
| CO3 | Student will be able to explain the concepts of electric power transmission and distribution of power. |
| CO4 | Student will be able to understand the wiring methods, electricity billing, and working principles of circuit protective devices and personal safety measures. |

COURSE OUTCOMES - FIRST YEAR COMMON TO ALL PROGRAMS)



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COURSE OUTCOMES

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: ELEMENTS OF CIVIL ENGINEERING AND MECHANICS(21CIV14/24) Year: 2021-22

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| CO1 | Student will be able to understand the various fields of civil engineering. |
| CO2 | Student will be able to compute the resultant of a force system and resolution of a force. |
| CO3 | Student will be able to comprehend the action for forces, moments, and other types of loads on rigid bodies and compute the reactive forces. |
| CO4 | Student will be able to locate the centroid and compute the moment of inertia of regular and built-up sections. |
| CO5 | Student will be able to analyze the bodies in motion. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

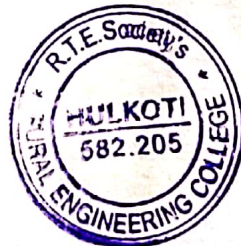
Course: Engineering Visualization(21EVN15/25) Year: 2021-22

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| CO1 | Student will be able to understand and visualize the objects with definite shape and dimensions |
| CO2 | Student will be able to analyze the shape and size of objects through different views |
| CO3 | Student will be able to develop the lateral surfaces of the object |
| CO4 | Student will be able to create a 3d view using cad software |
| CO5 | Student will be able to identify the interdisciplinary engineering components or systems through its graphical representation. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: ENGINEERING PHYSICS LABORATORY(21PHYL16/26) Year: 2021-22

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| CO1 | Student will be able to understand the measuring techniques |
| CO2 | Student will be able to operate different instruments and be capable to analyse the experimental results |
| CO3 | Student will be able to construct and analyse the circuits |



COURSE OUTCOMES - FIRST YEAR(COMMON TO ALL PROGRAMS)


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DEPARTMENT OF SCIENCE & HUMANITY

COURSE OUTCOMES

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: BASIC ELECTRICAL LABROTARY(21EEL17/27) Year: 2021-22

| | |
|-----|---|
| CO1 | Student will be able to able to verify kcl and kvl and maximum power therom of dc circuits |
| CO2 | Student will be able to able to compare power factor of different types of lamp |
| CO3 | Student will be able to able to demonstrate the measurement of the impedance of electrical circuit and power consued by a 3 phase load. |
| CO4 | Student will be able to analyse two way and three way control of lamps explain the effects of open and short circuits. |
| CO5 | Student will be able to interpret the suitability of earth resistance measured. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: Communicative English(21EGH18) Year: 2021-22

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|-----|---|
| CO1 | Student will be able to understand and apply the fundamentals of communication skills in their communication skills. |
| CO2 | Student will be able to identify the nuances of phonetics, intonation and enhance pronunciation skills. |
| CO3 | Student will be able to to impart basic english grammar and essentials of language skills as per present requirement. |
| CO4 | Student will be able to understand and useall types of english vocabulary and language proficiency. |
| CO5 | Student will be able to adopt thetechniques of information transfer through presentation. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: INNOVATION and DESIGN THINKING(21IDT19/29) Year: 2021-22

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| CO1 | Student will be able to appreciate various design process procedure |
| CO2 | Student will be able to generate and develop design ideas through different technique |
| CO3 | Student will be able to identify the significance of reverse engineering to understand products |
| CO4 | Student will be able to draw technical drawing for design ideas |



COURSE OUTCOMES - (REVISION COMMON TO ALL PROGRAMS)

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COURSE OUTCOMES

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: Scientific Foundations of Health(21SFH19) Year: 2021-22

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| CO1 | Student will be able to understand health and wellness (and its beliefs) |
| CO2 | Student will be able to acquire good health & it's balance for positive mindset |
| CO3 | Student will be able to inculcate and develop the healthy lifestyle habits for good health. |
| CO4 | Student will be able to create of healthy and caring relationships to meet the requirements of mnc and lpg world |
| CO5 | Student will be able to adopt the innovative & positive methods to avoid risks from harmful habits in their campus & outside the campus & to positively fight against harmful diseases for good health through positive mindset. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: ADVANCED CALCULUS AND NUMERICAL METHODS(21MAT21) Year: 2021-22

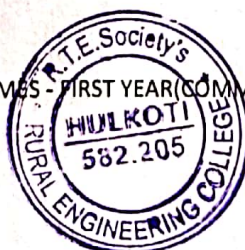
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|-----|---|
| CO1 | Student will be able to apply the concept of change of order of integration and change of variables to evaluate multiple integrals and their usage in computing the area and volume. |
| CO2 | Student will be able to illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the inter dependence of line, surface and volume integrals. |
| CO3 | Student will be able to illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the inter dependence of line, surface and volume integrals. |
| CO4 | Student will be able to apply the knowledge of numerical methods in modelling of various physical and engineering phenomena. |
| CO5 | Student will be able to solve first order ordinary differential equations arising in engineering problems. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: ENGINEERING CHEMISTRY(21CHE12/22) Year: 2021-22

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|-----|--|
| CO1 | Student will be able to understand the electrochemical energy systems such as electrodes and batteries. |
| CO2 | Student will be able to understand the fundamental concepts of corrosion, its control and surface modification methods namely electroplating and electroless plating |
| CO3 | Student will be able to enumerate the importance, synthesis and applications of polymers. understand properties and application of nanomaterials. |
| CO4 | Student will be able to describe the principles of green chemistry, understand properties and application alternative fuels. |

COURSE OUTCOMES - FIRST YEAR (COMMON TO ALL PROGRAMS)



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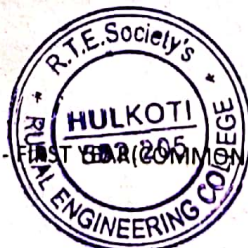
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| | |
|-----|--|
| COS | Student will be able to illustrate the fundamental principles of water chemistry, applications of volumetric and analytical instrumentation. |
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Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: Problem Solving Through Programming in C(21PSP13/23) Year: 2021-22

| | |
|-----|---|
| CO1 | Student will be able to elucidate the basic architecture and functionalities of a computer and also recognize the hardware parts. |
| CO2 | Student will be able to apply programming constructs of c language to solve the real world problem |
| CO3 | Student will be able to explore user-defined data structures like arrays in implementing solutions to problems like searching and sorting |
| CO4 | Student will be able to explore user-defined data structures like structures, unions and pointers in implementing solutions |
| CO5 | Student will be able to design and develop solutions to problems using modular programming constructs using functions |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: BASIC ELECTRONICS & COMMUNICATION ENGINEERING(21ELN14/24) Year: 2021-22

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|-----|---|
| CO1 | Student will be able to describe the concepts of electronic circuits encompassing power supplies, amplifiers and oscillators. |
| CO2 | Student will be able to present the basics of digital logic engineering including data representation, circuits and the microcontroller system with associated sensors and actuators. |
| CO3 | Student will be able to discuss the characteristics and technological advances of embedded systems. |
| CO4 | Student will be able to relate to the fundamentals of communication engineering spanning from the frequency spectrum to the various circuits involved including antennas. |
| CO5 | Student will be able to explain the different modes of communications from wired to wireless and the computing involved. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: ELEMENTS OF MECHANICAL ENGINEERING(21EME15/25) Year: 2021-22

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|-----|---|
| CO1 | Student will be able to understand basic concepts of mechanical engineering in the fields of energy and its utilization, materials technology, manufacturing techniques, and transmission systems through demonstrations. |
| CO2 | Student will be able to understand the application of energy sources in power generation and utilization, engineering materials, manufacturing, and machining techniques leading to the latest advancements and transmission systems in day to day activities |
| CO3 | Student will be able to apply the skills in developing simple mechanical elements and processes |

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Course: ENGINEERING CHEMISTRY LABORATORY(21CHEL16/26) Year: 2021-22

| | |
|-----|--|
| CO1 | Student will be able to determine the pka and coefficient of viscosity of a given organic liquid. |
| CO2 | Student will be able to estimate the amount of substance present in the given solution using potentiometer conductometric and colorimetric. |
| CO3 | Student will be able to determine the total hardness and chemical oxygen demand in the given solution by volumetric analysis method |
| CO4 | Student will be able to determine the total hardness and chemical oxygen demand in the given solution by volumetric analysis method |
| CO5 | Student will be able to demonstrate flame photometric estimation of sodium & potassium and the synthesis of nanomaterials by precipitation method. |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: COMPUTER PROGRAMMING LAB(21CPL17/27) Year: 2021-22

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| CO1 | Student will be able to define the problem statement and identify the need for computer programming |
| CO2 | Student will be able to make use of c compiler, ide for programming, identify and correct the syntax and syntactic errors in programming |
| CO3 | Student will be able to develop algorithm, flowchart and write programs to solve the given problem |
| CO4 | Student will be able to demonstrate use of functions, recursive functions, arrays, strings, structures and pointers in problem solving |
| CO5 | Student will be able to document the inference and observations made from the implementation |

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2021

Course: Professional Writing Skills in English(21EGH28) Year: 2021-22

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|-----|--|
| CO1 | Student will be able to understand and identify the common errors in writing and speaking. |
| CO2 | Student will be able to achieve better technical writing and presentation skills. |
| CO3 | Student will be able to read technical proposals properly and make them to write good technical reports. |
| CO4 | Student will be able to acquire employment and workplace communication skills. |
| CO5 | Student will be able to learn about techniques of information transfer through presentation in different level |

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