



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)  
E-mail: [principalrechkt@rediffmail.com](mailto:principalrechkt@rediffmail.com)

Ph No. 08372-289097  
08372-289253  
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Dist. Gadag

(ESTD-1980)

State: Karnataka

**DEPARTMENT OF SCIENCE & HUMANITY**

**COURSE OUTCOMES**

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1 Scheme : 2018

Course: Calculus and Linear Algebra(18MAT11) Year: 2018-19

CO1	Student will be able to find how to calculate the nth order derivatives of a given function and 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 evaluate limits with indeterminate forms using l'hospital's rule and express function of one variable as infinite series, also use partial derivatives to calculate rates of change of multivariate functions.
CO3	Student will be able to apply the vector differential operator to determine the gradient, divergence and curl. also illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors
CO4	Student will be able to apply the reduction formula to evaluate definite integral. apply various methods of the differential equation to solve first-order linear ode and its applications to various fields.
CO5	Student will be able to apply the matrix techniques to reduce the quadratic forms to canonical forms, finding solutions of systems of linear equations in the different areas of linear algebra

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2018

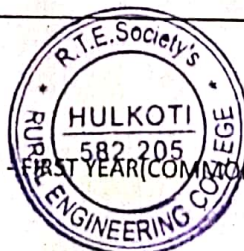
Course: Engineering Chemistry(18CHE12/22) Year: 2018-19

CO1	Student will be able to use of free energy in equilibria, rationalise bulk properties and processes using thermodynamic considerations, electrochemical energy systems
CO2	Student will be able to causes & effects of corrosion of metals and control of corrosion. modification of surface properties of metals to develop resistance to corrosion, wear, tear, impact etc. by electroplating and electroless plating
CO3	Student will be able to production & consumption of energy for industrialization of country and living standards of people. electrochemical and concentration cells. classical modern batteries and fuel cells. utilisation of solar energy for different useful forms of energy
CO4	Student will be able to environmental pollution, waste management and water chemistry
CO5	Student will be able to different techniques of instrumental methods of analysis. fundamental methods of analysis. fundamental principles of nanomaterials

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2018

Course: C PROGRAMMING FOR PROBLEM SOLVING(18CPS13/23) Year: 2018-19

CO1	Student will be able to illustrate the basics of computer, networks, software, programming language, simple algorithms and flowcharts
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COURSE OUTCOMES - FIRST YEAR (COMMON TO ALL PROGRAMS)

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**COURSE OUTCOMES**

CO2	Student will be able to construct a programming solution to the given problem using c.
CO3	Student will be able to demonstrate and apply standard input and output operations, decision making and looping constructs
CO4	Student will be able to understand and apply the data structures such as arrays and strings and their functions in solving various problems such as searching and sorting.
CO5	Student will be able to modularize the given problem and create a programming solution using functions.

COURSE OUTCOMES (FIRST YEAR COMMON TO ALL PROGRAMS)



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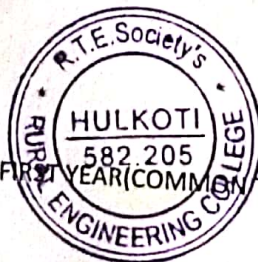
**COURSE OUTCOMES**

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2018  
Course: BELN(18ELN14/24) Year: 2018-19


CO1	Student will be able to design & explain operation of diodes,, bjt,fet, & op-amps
CO2	Student will be able to design & explain rectifiers,regulators,amplifiers & oscillators
CO3	Student will be able to describe general operating principles of scr & its applications
CO4	Student will be able to explain operation of fixed voltage ic regulato using 7805 & stable oscillator using timer 555,
CO5	Student will be able to explain different number systems &their conversion & construction of simple combinational & sequential ckt using f/f & communication system.

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2018  
Course: Engineering Chemistry Laboratory(18CHEL16/26) Year: 2018-19

CO1	Student will be able to handling different types of instruments for analysis of materials using small quantities of materials involved for quick and accurate results
CO2	Student will be able to carrying out different types of titrations for estimation of concerned in materials using comparatively more quantities of materials involved for good results



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**COURSE OUTCOMES**

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1/2 Scheme : 2018

Course: COMPUTER PROGRAMMING LAB(18CPL17/27) Year: 2018-19

CO1	Student will be able to gain knowledge on various parts of a computer
CO2	Student will be able to write algorithms, flowcharts, and programs for simple problems
CO3	Student will be able to correct syntax and logical errors to execute a program.
CO4	Student will be able to write iterative and wherever possible recursive programs
CO5	Student will be able to demonstrate the use of arrays, strings, structures in problem solving

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 1 Scheme : 2018

Course: Tecchnical English - I(18EGH18) Year: 2018-19

CO1	Student will be able to use grammatical english and essentials of language skills and identify the nuances of phonetics, intonations and flawless pronunciation.
CO2	Student will be able to implement english vocabulary at command and language proficiency.
CO3	Student will be able to identify common errors in spoken and written communication.
CO4	Student will be able to understand and improve the non verbal communication and kinesics.
CO5	Student will be able to perform well in campus recruitment, engineering and all other general competitive examination.

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 2 Scheme : 2018

Course: Advanced calculus and Numerical Methods(18MAT21) Year: 2018-19

CO1	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.
CO2	Student will be able to demonstrate various physical models through higher order differential equations and solve such linear ordinary differential equations.
CO3	Student will be able to construct a variety of partial differential equations and solution by exact methods/method of separation of variables.
CO4	Student will be able to explain the applications of infinite series and obtain series solution of ordinary differential equations.
CO5	Student will be able to apply the knowledge of numerical methods in the modeling of various physical and engineering phenomena.



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Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 2 Scheme : 2018

Course: Engineering Physics(18PHY12/22) Year: 2018-19

CO1	Student will be able to understand various types of oscillations and their implications, the role of shock waves in various fields and recognize the elastic properties of materials for engineering applications.
CO2	Student will be able to realize the interrelation between time varying electric field and magnetic field, the transverse nature of the em waves and their role in optical fiber communication
CO3	Student will be able to compute eigen values, eigen functions, momentum of atomic and subatomic particles using time independent 1-d schrodinger's wave equation.
CO4	Student will be able to apprehend theoretical background of laser, construction and working of different types of laser and its applications in different fields.
CO5	Student will be able to understand various electrical and thermal properties of materials like conductors, semiconductors and dielectrics using different theoretical models.

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 2 Scheme : 2018

Course: Elements of Civil Engineering and Mechanics(18CIV14/24) Year: 2018-19

CO1	Student will be able to mention the applications of various fields of civil engineering, and computation of resultant of coplanar concurrent and non-concurrent forces also moment of force system.
CO2	Student will be able to compute the different forces acting on the concurrent force systems by applying equilibrium conditions and lami's theorem. computing the friction acting on the different bodies.
CO3	Student will be able to comprehend the action of forces, moment and other loads on beams and compute the relative reactions developed due to external loads.
CO4	Student will be able to locate the centroid, compute moment of inertia of regular and built up sections.
CO5	Student will be able to express the relationship between the motions of bodies and analyze the motion of body.

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 2 Scheme : 2018

Course: Engineering Graphics(18EGDL15/25) Year: 2018-19

CO1	Student will be able to prepare engineering drawings as per bis conservations mentioned in the relevant codes
CO2	Student will be able to produce computer generated drawing using cad software.
CO3	Student will be able to use the knowledge of orthographic projections to represent engineering information / concepts and present the same in the form of drawings.

COURSE OUTCOMES FIRST YEAR COMMON TO ALL PROGRAMS



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CO4	Student will be able to develop isometric drawings of simple objects reading the orthographic projections of those objects.
CO5	Student will be able to convert pictorial and isometric views of simple objects to orthographic views.



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Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 2 Scheme : 2018

Course: Engineering Physics Laboratory(18PHYL16/26) Year: 2018-19

CO1	Student will be able to apprehend the concepts of interference of light, diffraction of light, fermi energy and magnetic effect of current
CO2	Student will be able to understand the principles of operations of optical fibers and semiconductor devices such as photodiode, and npn transistor using simple circuits.
CO3	Student will be able to determine elastic moduli and moment of inertia of given materials with the help of suggested procedures
CO4	Student will be able to recognize the resonance concept and its practical applications.
CO5	Student will be able to understand the importance of measurement procedure, honest recording and representing the data, reproduction of final results.

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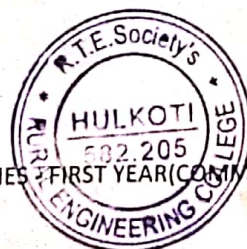
Course: BELE LAB(18ELEL17/27) Year: 2018-19

CO1	Student will be able to identify the common electrical components and measuring instruments used for conducting electrical laboratory
CO2	Student will be able to compare power factor of lamps
CO3	Student will be able to determine impedance of electrical circuit and power consumed in a 3 phase load
CO4	Student will be able to determine earth resistance and understand two and three way control of lamp

Branch : DEPARTMENT OF SCIENCE & HUMANITY Semester : 2 Scheme : 2018

Course: Tecchnical English - II(18EGH28) Year: 2018-19

CO1	Student will be able to identify common errors in spoken and written communication.
CO2	Student will be able to get familiarized with english vocabulary and language proficiency
CO3	Student will be able to improve nature and style of sensible writing and acquire employment and workplace communication skills.
CO4	Student will be able to improve their technical communication skills through technical reading and writing practices.
CO5	Student will be able to perform well in campus recruitment, engineering and all other general competitive examinations



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