



DNR COLLEGE OF ENGINEERING & TECHNOLOGY BHIMAVARAM,

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
COURSE OUT COMES**

Program Name:	IB. TECH CSE	Class / Sem	I/I
Regulation	R20		

CO Statement -COMMUNICATIVE ENGLISH
Identify the context and pieces of specific information by understanding and responding to the written and spoken purpose thoroughly.
Apply suitable strategies for skimming and scanning to get the main idea of a text and locate specific information.
Construct sentences using proper grammatical structures and correct word forms.
Observe the principles of writing to paragraphs, arguments, essays and formal/informal communication.
Build confidence and adapt themselves to the social and public descriptions, discussions and presentations.
Support the importance of vocabulary and using them effectively in writing technical articles and presentations of any genre.

CO Statement-MATHEMATICS - I
Determine the sequence whether it is convergent or divergent by using the appropriate tests
Analyze mean value theorems in real life problems.
Discuss linear differential equations with constant coefficients, complementary function and particular integrals.
Solve the differential equations related to various engineering fields.
Explain the different types of partial differential equations.
Apply the concept of multiple integrals in practical problem

CO Statement-APPLIED PHYSICS
Explain the principles and applications of wave optics
Interpret the development and applications of Laser light and its uses in optical fiber communication
Apply the role of quantum mechanics, free electron theory, band theory of solids and its applications on physical system.
Classify the properties of dielectric and magnetic materials for various applications
Demonstrate the use of semiconductors and superconductors in various engineering problems.
Use the applications to solve practical problems related to materials such as dielectrics, magnetic materials, semiconductors and superconductors.

CO Statement –PPSUC
Describe an algorithms and to draw flowcharts for solving problems
Explain structure of C program
Use of Operators ,Two-way/ and Multi-way selection in programs.
Classify use of Arrays and Strings in C program.
Evaluate the concept of Pointers and their different applications.
Illustrate the concept of Functions and File I/O operations and to develop modular reusable code.

CO Statement – COMPUTER ENGINEERING WORKSHOP
Explain the hardware components, Assemble/setup and upgrade personal computer hardware that make computer hardware
Show the OS installation, configuration and upgrading of software.Diagnose and troubleshoot computer system hardware and software and other peripherals.
Use various Microsoft tools like professionalworddocuments,excel spreadsheetsandpowerpointpresentations
Design flow chart creation, Productivity tool
Evaluate the cyber hygiene that is protecting the personal computer from getting infected with the viruses, worms and other cyber-attacks
Explain programming through Visual Programming using HTML

CO Statement -ENGLISH COMMUNICATION SKILLS LAB
Remember and understand the different aspects of English language proficiency with emphasis on LSRW skills.
Apply communication skills through various language learning activities.
Analyze the English speech sounds, stress, rhythm, intonation and syllable division for better listening comprehension.
Exhibit an acceptable etiquette essential in social settings.
Get awareness on mother tongue influence and neutralize it in order to improve fluency and clarity in spoken English.
Construct formal and informal situations to test their basics of English.

CO Statement – APPLIED PHYSICS LAB
Operate optical instruments like microscope and spectrometer and to determine thickness of a hair/paper with the concept of interference
Determine of radius of curvature of a given plano convex lens by Newton's rings and estimate the wavelength of different colors using diffraction grating.
Determine of dispersive power of the prism. To determine the wavelength of Laser light using diffraction grating.
Calculate the resistance of the given semiconductor with varying temperature and calculate the band gap of a given semiconductor. To draw the V-I characteristics of Zener diode.
Study the variation of B versus H by magnetizing the magnetic material (B-H curve) and to plot the intensity of the magnetic field of circular coil carrying current with distance.
Determine the dielectric constant using charging and discharging method and to determine the resonant frequency and Quality factor of LCR Circuit in series and parallel

CO Statement – PPSUC lab
Explain the Basic concepts of variables and data types
Use of Operators and Expressions
Demonstrate the usage of Conditional and Unconditional statements
Classify the functions and relate functions with respect to arrays and strings
Describe the concept of pointers and structures
Demonstrate the usage of files and Command Line Arguments