ELECTRICAL AND ELECTORNICS ENGINEERING (ANDHARA UNIVERS ITY)

COURSE	C.O CODE	COURSE OUTCOME DESCRIPTION
	C1101.1	Apply The Four Languages Learning Skills-Listening, Speaking, Reading, Writing (Lsrw) For Professional Success.
	C1101.2	Employ Knowledge Of Grammatical Structures And Vocabulary In Speech And Writing
English	C1101.3	Apply Effective Communication Skills To Enhance Professional Possibilities.
	C1101.4	Develop Acceptable Personality Traits Suitable For Chosen Profession.
	C1102.1	Apply The Partial Differentiation Techniques to Solve Certain Problem Arise In Engineering.
Mathematica I	C1102.2	Solve The Differential Equations Of First Order And First Degree Related To Various Engineering Applications.
Mathematics-I	C1102.3	Solve The Linear Higher Order Differential Equations With Constant Coefficients.
	C1102.4	Examine The Nature, Interval Of Convergence Of Infinite Series.
	C1103.1	Solve System Of Linear Simultaneous Equations Of Various Matrix Methods.
Madha and the IT	C1103.2	Apply Eigen Value Computation Techniques To Reduce A Given Quadratic To Canonical Form
Mathematics-II	C1103.3	Apply Laplace Transforms Functions For Solving Ordinary Differential Equations.
	C1103.4	Apply Special Functions To Evaluate Improper Integrals.
	C1104.1	Explain The Laws Of Thermodynamics, Efficiency Of Heat Engine And Their Importance In Engineering.
	C1104.2	Study The Importance Of Maxwell Equations In Electromagnetic Fields.
Physics	C1104.3	Identify Various Optical Phenomena And Their Importance In Engineering.
	C1104.4	Understand The Working Of Lasers & Its Propagation Through Optical Fibers And Importance Of Ultrasonic
	C1104.5	Acquire The Knowledge Of Superconductors, Nanomaterials And Their Utilization In Various Applications.
	C1106.1	Draw Basic Components Of Engineering Drawing Viz Geometric Constructions, Curves Etc.
	C1106.2	Construct Scales: Plain, Diagnol And Vernier
Engg Graphics	C1106.3	Draw Orthographic Projections Of Points, Lines And Solids As Per The International Standards.
	C1106.4	Draw Sectional Drawings And Developments As Per National And International Standards.
	C1106.5	Draw Solid Machine Components Using Various Drawing Techniques Viz Isometric.
	C1105.1	Understand The Values In Education And Real Ife
Duefersional Ethics and Manal	C1105.2	Understand The Values In Respective Professions And Analyze The Ethical Role Of Engineers
Professional Ethics and Moral Values	C1105.3	Understand The Concept Of Harmony In Life And Moral Responsibility Of Engineers.
	C1105.4	Understand Environmental Ethics And Apply In Real Life
	C1107.1	Apply The Knowledge Of Different Phenomena Of Light Like Interference, Diffraction And Handle Various Optical
Physics Lab	C1107.2	Verify The Laws Of Thermo Dynamics, Electro Magnetism And Stretched String.
	C1107.3	Draw The Relevance Between Theoretical Knowledge And The Means To Imply It In A Practical Manner By
	C1108.1	Follow Necessary Saftey Precations While Operating Equipment And Tools To Avoid Accidents In Workshop.
Words Charr	C1108.2	Apply Wood Working Knowledge In Making Simple Wood Joints By Selecting Appropriate Carpentry Tools.
Work Shop	C1108.3	Apply Development Of Surfaces Concept In Producing Simple Sheeet Metal Works With The Use Appropriate
	C1108.4	Prepare Simple Fitting Joints With The Use Of Proper Fitting Tools

COURSE	C.O CODE	COURSE OUTCOME DESCRIPTION
	C1201.1	Apply The Concept Of Lines, Planes, Spheres And The Students Are Through In Defining And Evaluating
	C1201.2	Solve Double And Triple Integrals To Find Areas And Volumes.
Mathematics-III	C1201.3	Apply Special Functions To Evaluate Improper Integrals.
	C1201.4	Compute Fourier Series for Different Function And Also Half Range Series Certain Types Of Functions.
	C1203.1	Identify Appropriate C Language Constructs To Solve Problems
	C1203.2	Understand The Concepts Of Homogeneous Data Types To Solve Different Problems
Computer Programming and	C1203.3	Apply The Concepts Of Function Modules, Its Usage And Memory Allocation Using Pointers
Numerical Methods	C1203.4	Understand The Concepts Of Heterogeneous Data Types And File Handling Feature In C
	C1203.5	Solve System Of Linear Algebraic Equations And Apply Newton'S Forward & Backward Interpolation For Equal Intervals, Lagrange's Formulae For Unequal Intervals
	C1203.6	Describe The Concept Of Numerical Integration And Numerical Solutions Of Differential Equations
	C123.1	Understand The Crystal Structure And Classification Of Materials.
Metallurgy & Materials	C123.2	Understand Different Phase Diagrams And Its Uses.
Engineering	C123.3	Select Suitable Heat-Treatment Process To Achieve Desired Properties Of Metals And Alloys.
	C123.4	Understand The Concept Of Composites And Nano Material To Fulfil Human Needs.
	C1202.1	Select The Methods Used For Purification Of Water For Domestic And Industrial Purposes
	C1202.2	Identify The Advantages And Limitations Of Plastics, Building Materials And Their Use In Day To Day Life
Chemistry	C1202.3	Select The Suitable Methods Of Corrosion Control.
	C1202.4	Identify The Fuels Which Are Commonly Used And Their Economics, Advantages And Limitations.
	C1202.5	Obtain The Knowledge Of Semiconductors, Super Conductors And Liquid Crystals
	C1204.1	Understand About The Scientific History Of India, A Particular Period's Of Indian Cultural Habitats And The How To Improvements Of Science And Tech.
	C1204.2	Understand About Policy Resolution Statements Of India, And CSIR Activities.
History of Science &	C1204.3	Understand The Applications Bio-Technology & Its Applications Like DNA Finger Printing, Cloning, Tissue Culture.
Technology	C1204.4	Understand About The Indian Defense Research And Their Imp. & Ocean Development And Biological Resources, & Research Institutions. Understand About The Indian Satellites, Launch Vehicle Technology, Types Of Satellites Etc., Technology Transfer And Fore Casting
	C1207.1	Obtain The Knowledge Of Acid-Base Titrations To Determine The Strength Of Acid And Base Solutions.
Chemistry Lab	C1207.2	Gain The Knowledge Of Redox Titrations To Determine The Concentration Of Samples Such As Ores And Oxalic Acid Using Different Indicators.
	C1207.3	Obtain The Knowledge Of Complexometry Titrations To Determine The Hardness Of Given Water Sample By Edta Method.
	C1207.4	Gain The Knowledge Of Commonly Used Instrument Ph Meter To Determine The Strength Of Given Acid Solution.
	C1208.1	Explain Computer Programming Concept

COURSE	C.O CODE	COURSE OUTCOME DESCRIPTION
	C1208.2	Prepare Algorithm And Flowchart To Solve Simple Engineering Problems
	C1208.3	Write C Program To Solve Simple Engineering Programs Using Control Statements, Arrays And Functions
Computer Programming and Num. Methods Lab	C1208.4	Write C Program To Solve Simple Engineering Programs Using Pointers, Function Call By Value And Function Call By Reference
	C1208.5	Write C Program To Solve Simple Engineering Programs Using Structures And Files
	C1208.6	Explain About Sources Of Errors In Numerical Methods
	C1208.7	Identify Sources Of Errors In Numerical Methods
	C1208.8	Students Will Have A Fundamental Idea To Solve Partial Differential Equations.
	C1206.1	Recognize the sounds of English with the help of audio visual aids
English Language Lab	C1206.2	Build confidence and overcome inhibitions while speaking in English.
	C1206.3	Demonstrate acquired language skills in performing the designated activity.

English	C111.1	Apply the four languages learning skills- listening, speaking, reading, writing (lsrw) for professional success.
	C111.2	Employ knowledge of grammatical structures and vocabulary in speech and writing
	C111.3	Apply effective communication skills to enhance professional possibilities.
	C111.4	Develop acceptable personality traits suitable for chosen profession.
	C112.1	Apply The Partial Differentiation Techniques to Solve Certain Problem Arise In Engineering.
Mathematics	C112.2	Solve the differential equations of first order and first degree related to various engineering applications.
Mathematics-I	C112.3	Solve The Linear Higher Order Differential Equations With Constant Co efficient.
	C112.4	Examine the nature, interval of convergence of infinite series.
	C113.1	Solve system of linear simultaneous equations of various matrix methods.
Mathematics	C113.2	Apply eigen value computation techniques to reduce a given quadratic to canonical form
Mathematics-II	C113.3	Apply laplace transforms functions for solving ordinary differential equations.
	C113.4	Apply special functions to evaluate improper integrals.
	C114.1	Explain the laws of thermodynamics, efficiency of heat engine and their importance in engineering.
	C114.2	Study the importance of maxwell equations in electromagnetic fields.
Physics	C114.3	Identify various optical phenomena and their importance in engineering.
	C114.4	Understand the working of lasers & its propagation through optical fibers and importance of ultrasonic
	C114.5	Acquire the knowledge of superconductors, nanomaterials and their utilization in various applications.
	C115.1	Draw basic components of engineering drawing viz geometric constructions, curves etc.
	C115.2	Construct scales : plain, diagonal and vernier
Engg Graphics	C115.3	Draw orthographic projections of points, lines and solids as per the international standards.
	C115.4	Draw sectional drawings and developments as per national and international standards.
	C115.5	Draw solid machine components using various drawing techniques viz isometric.
	C116.1	Understand The Values In Education And Real life
Ethics and Moral Values	C116.2	Understand the values in respective professions and analyze the ethical role of engineers
Ethics and Moral values	C116.3	Understand the concept of harmony in life and moral responsibility of engineers.
	C116.4	Understand environmental ethics and apply in real life
	C117.1	Apply the knowledge of different phenomena of light like interference, diffraction and handle various optical
Physics lab	C117.2	Verify the laws of thermo dynamics, electro magnetism and stretched string.
	C117.3	Draw The Relevance between theoretical knowledge and the means to implyitina practical manner by
	C118.1	Follow necessary safety precautions while operating equipment and tools to avoid accidents in workshop.
Workshop	C118.2	Apply wood working knowledge in making simple wood joints by selecting appropriate carpentry tools.
Workshop	C118.3	$\label{eq:applydevelopment} Applydevelopment of surfaces concept in producing simples heet metal works with the use appropriate of the surface set of the surface s$
	C118.4	Prepare simple fitting joints with the use of proper fitting tools

COURSE	C.OCODE	COURSEOUTCOMEDESCRIPTION
	C121.1	Apply the concept of lines, planes, spheres and the students are through in defining and evaluating
Mathematics III	C121.2	Solve double and triple integrals to find areas and volumes.
Mathematics-III	C121.3	Apply special functions to evaluate improper integrals.
	C121.4	Compute Fourier Series for Different Function And Also Half Range Series Certain Types Of Functions.
	C122.1	Identify appropriate c language constructs to solve problems
	C122.2	Understand the concepts of homogeneous data types to solve different problems
	C122.3	Apply the concepts of function modules, its usage and memory allocation using pointers
Computer Programming and Numerical Methods	C122.4	Understand the concepts of heterogeneous data types and file handling feature in c
Tumer cur pretious	C122.5	Solve system of linear algebraic equations and apply newton's forward & backward interpolation for equal intervals, langrage's formulae for unequal intervals
	C122.6	Describe the concept of numerical integration and numerical solutions of differential equations
	C123.1	Understand the crystal structure and classification of materials.
Metallurgy & Materials	C123.2	Understand different phase diagrams and its uses.
Engineering	C123.3	Select suitable heat-treatment process to achieve desired properties of metals and alloys.
	C123.4	Understand the concept of composites and Nano material to fulfill human needs.
	C124.1	Select the methods used for purification of water for domestic and industrial purposes
	C124.2	Identify the advantages and limitations of plastics, building materials and their use in day to day life
Chemistry	C124.3	Select the suitable methods of corrosion control.
	C124.4	Identify the fuels which are commonly used and their economics, advantages and limitations.
	C124.5	Obtain The Knowledge Of Semi conductors, Super Conductors And Liquid Crystals
	C125.1	Understand about the scientific history of India, a particular period's of Indian cultural habitats and the how to improvements of science and tech.
	C125.2	Understand about policy resolution statements of India, and CSIR activities.
History of Science & Technology	C125.3	Understand the applications bio-technology & its applications like DNA finger printing, cloning, tissue culture.
	C125.4	Understand about the Indian defense research and their imp.& ocean development and biological resources, & research institutions. Understand about the Indian satellites, launch vehicle technology, types of satellites etc. ,technology transfer and fore casting
	C126.1	Obtain the knowledge of acid-base titrations to determine the strength of acid and base solutions.
Chemistry Lab	C126.2	Gain the knowledge of Redox titrations to determine the concentration of samples such as ores and oxalic acid using different indicators.
	C126.3	Obtain the knowledge of complexometry titrations to determine the hardness of given water sample by edta method.
	C126.4	Gain the knowledge of commonly used instrument ph meter to determine the strength of given acid solution.
	C127.1	Explain computer programming concept

COURSE	C.OCODE	COURSEOUTCOMEDESCRIPTION
	C127.2	Prepare Algorithm And Flow chart To Solve Simple Engineering Problems
	C127.3	Write c program to solve simple engineering programs using control statements, arrays and functions
Computer Programming and Num. Methods Lab	C127.4	Write c program to solve simple engineering programs using pointers, function call by value and function call by reference
	C127.5	Write C Program To Solve Simple Engineering Programs U sing Structures And Files
	C127.6	Explain about sources of errors in numerical methods
	C127.7	Identify sources of errors in numerical methods
	C127.8	Students will have a fundamental idea to solve partial differential equations.
	C128.1	Make students recognize the sounds of English through audio visual aids
English Language Lab	C128.2	Help students build their confidence and help overcome their inhibitions and self consciousness while speaking in English
	C128.3	Familiarize the students with stress and intonation and enable them to speak English effectively.

ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE	C.OCODE	COURSEOUTCOMEDESCRIPTION
	C1101.1	Apply the four languages learning skills-listening, speaking, reading, writing (LSRW) for professional success.
	C1101.2	Employ knowledge of grammatical structures and vocabulary in speech and writing
English	C1101.3	Apply effective communication skills to enhance professional possibilities.
	C1101.4	Develop acceptable personality traits suitable for chosen profession.
	C1102.1	Apply the partial differentiation techniques to solve certain problem arise in engineering.
Mathematica I	C1102.2	Solve the Differential Equations of first order and first degree related to various engineering applications.
Mathematics-I	C1102.3	Solve the linear higher order differential equations with constant coefficients.
	C1102.4	Examine the nature, interval of convergence of infinite series.
	C1103.1	Solve system of linear simultaneous equations of various matrix methods
	C1103.2	Apply Eigen value computation techniques to reduce a given quadratic to canonical form
Mathematics-II	C1103.3	Apply Laplace transforms functions for solving ordinary differential equations.
	C1103.4	Apply special functions to evaluate improper integrals.
	C1105.1	Know the laws of Thermodynamics, conversion mechanism and efficiency of heat energy to work and their importance in Engineering.
Physics	C1105.2	Learn the Electric & Magnetic fields and their relation, time varying electromagnetic fields and their energy transportation.
Гцузісэ	C1105.3	Explain the concepts of interference, diffraction and Polarization undergo analysis of optical effects and contribute to engineering applications.
l	C1105.4	Understand the Lasers & its propagation through Optical fibers and importance of Ultrasonic waves and able to apply these in different applications in engineering.
l	C1105.5	Understand the importance of Superconductors Nanomaterials in various Engineering applications and also learn the concepts of Quantum mechanics to explain the electrical behavior of the materials at atomic level.
 	C1107.1	Draw basic components of engineering drawing viz geometric constructions, curves etc.
I	C1107.2	Construct scales: plain, diagonal and vernier
EnggGraphics	C1107.3	Draw orthographic projections of points, lines and solids as per the international standards.
I	C1107.4	Draw sectional drawings and developments as per National and International standards.
	C1107.5	Draw solid machine components using various drawing techniques viz Isometric.
	C1109.1	Understand the values in education and real life
Dultan and Maral Values	C1109.2	Understand the values in respective professions and analyze the ethical role of engineers
Ethics and Moral Values	C1109.3	Understand the concept of harmony in life and moral responsibility of engineers
l	C1109.4	Understand environmental ethics and apply in real life
	C1111.1	Apply the knowledge of different phenomena of light like interference, diffraction and handle various optical measuring instruments.
PhysicsLab	C1111.2	Verify the laws of thermo dynamics, electro magnetism and stretched string.
	C1111.3	Draw the relevance between theoretical knowledge and the means to imply it in a practical manner by performing various relative experiments
	C1113.1	Apply wood working knowledge in making simple wood joints

WorkShop	C1113.2	Apply the development of surfaces concept in producing simple sheet metal works
	C1113.3	Prepare simple fitting joints with the use of proper fitting tools

COURSE	C.OCODE	COURSEOUTCOMEDESCRIPTION
	C1201.1	Apply the concept of lines, planes, spheres and the students are through in defining and evaluating geometric figure.
Mathematics-III	C1201.2	Solve double and triple integrals to find areas and volumes.
	C1201.3	Apply special functions to evaluate improper integrals.
	C1201.4	Compute Fourier series for different function and also half range series certain types of functions.
	C1203.1	Select the methods used for purification of water for domestic and industrial purposes
	C1203.2	Understand life Identify the advantages and limitations of plastics, building materials and their use in day to daythe advantages and limitations of plastic materials and building materials and their use in day-to-day life
Chemistry	C1203.3	Select the suitable methods of corrosion control.
	C1203.4	Identify the fuels which are commonly used and their economics, advantages and limitations.
	C1203.5	Obtain the knowledge of semiconductors, super conductors and liquid crystals
	C1205.1	Students will be able to identify appropriate C language constructs to solve problem
Computer programming and	C1205.2	Understand the concepts of homogeneous data types to solve different problems
numerical methods	C1205.3	Apply the concepts of function modules, its usage and memory allocation using pointers
	C1205.4	Understand the concepts of heterogeneous data types and file handling feature in C
	C1205.5	Solve system of linear algebraic equations and apply Newton's forward & backward interpolation for equal intervals, Lagrange's formulae for unequal intervals
	C1205.6	Describe the concept of numerical integration and numerical solutions of differential equations
	C1207.1	Able to understand about the scientific history of India, a particular period of Indian cultural habitats and the how- to improvements of science and tech.
History of Science & Technology	C1207.2	Able to understand about policy resolution statements of India, and CSIR activities.
	C1207.3	Able to understand the applications Bio-technology & its applications like DNA finger printing, cloning, Tissue culture.
	C1207.4	Able to understand about the Indian Defense research and their imp. &Ocean development and biological resources, & research institutions. understand about the Indian satellites, launch vehicle technology, types of satellites etc., technology transfer and fore casting
Basic Electrical	C1208.1	Understand electronic materials and their properties
Engineering	C1208.2	Outline Active & Passive components, Kirchhoff laws, measuring meters.
Engineering	C1208.3	List various types of Diodes, Transistors and their applications
	C1208.4	Comprehend power electronic devices and Integrated Circuits.
	C1210.1	Obtain the knowledge of acid-base titrations to determine the strength of acid and base solutions.
Chemistry lab	C1210.2	Gain the knowledge of Redox titrations to determine the concentration of samples such as Ores and oxalic acid using different indicators.
	C1210.3	Obtain the knowledge of complexometry titrations to determine the hardness of given water sample by EDTA method
	C1210.4	Gain the knowledge of commonly used instrument pH meter to determine the strength of given acid solution.
	C1212.1	Students will have a fundamental idea about computer programming concept
	C1212.2	Students will have a fundamental idea to prepare algorithm and flowchart to solve simple engineering problems
	C1212.3	Students will have a fundamental idea to write C program to solve simple engineering programs using control

		statements, arrays and functions
	C1212.4	Students will have a fundamental idea to write C program to solve simple engineering programs using pointers,
	01212.4	function call by value and function call by reference
Cpnm Lab	C1212.5	Students will have a fundamental idea to write C program to solve simple engineering programs using structures and files
	C1212.6	Students will have a fundamental idea about sources of errors in numerical methods
	C1212.7	Students will have a fundamental idea about sources of errors in numerical methods
	C1212.8	Students will have a fundamental idea to solve partial differential equations.

Computer science and engineering

COURSE	C.O CODE	COURSE OUTCOME DESCRIPTION
	C1101.1	Apply The Four Languages Learning Skills-Listening, Speaking, Reading, Writing (Lsrw) For Professional Success.
English	C1101.2	Employ Knowledge Of Grammatical Structures And Vocabulary In Speech And Writing
	C1101.3	Apply Effective Communication Skills To Enhance Professional Possibilities.
	C1101.4	Develop Acceptable Personality Traits Suitable For Chosen Profession.
	C1102.1	Apply The Partial Differentiation Techniques to Solve Certain Problem Arise In Engineering.
Mathematics-I	C1102.2	Solve The Differential Equations Of First Order And First Degree Related To Various Engineering Applications.
	C1102.3	Solve The Linear Higher Order Differential Equations With Constant Coefficients.
	C1102.4	Examine The Nature, Interval Of Convergence Of Infinite Series.
	C1103.1	Solve System Of Linear Simultaneous Equations Of Various Matrix Methods.
Mathematics-II	C1103.2	Apply Eigen Value Computation Techniques To Reduce A Given Quadratic To Canonical Form
	C1103.3	Apply Laplace Transforms Functions For Solving Ordinary Differential Equations.
	C1103.4	Apply Special Functions To Evaluate Improper Integrals.
	C1104.1	Select the methods used for purification of water for domestic and industrial purposes
Chemistry	C1104.2	Identify the advantages and limitations of plastics, building materials and their use in day to day life
	C1104.3	Select the suitable methods of corrosion control.
	C1104.4	Identify the fuels which are commonly used and their economics, advantages and limitations.
	C1104.5	Obtain the knowledge of semiconductors, super conductors and liquid crystals
History of science and Technology	C1106.1	Understand About The Scientific History Of India, A Particular Period'S Of Indian Cultural Habitats And The How To Improvements Of Science And Tech.
	C1106.2	Understand About Policy Resolution Statements Of India, And Csir Activities.
	C1106.3	Understand The Applications Bio-Technology & Its Applications Like Dna Finger Printing, Cloning, Tissue Culture.
	C1106.4	Understand About The Indian Defense Research And Their Imp. & Ocean Development And Biological Resources, & Research Institutions. Understand About The Indian Satellites, Launch Vehicle Technology, Types Of Satellites Etc., Technology Transfer And Fore Casting
CPNM	C1105.1	Students will be able to identify appropriate C language constructs to solve problem

	C1105.2	Understand the concepts of homogeneous data types to solve different problems
	C1105.3	Apply the concepts of function modules, its usage and memory allocation using pointers
	C1105.4	Understand the concepts of heterogeneous data types and file handling feature in C
	C1105.5	Solve system of linear algebraic equations and apply Newton's forward & backward interpolation for equal intervals, Langranges's form for unequal intervals
	C1105.6	Describe the concept of numerical integration and numerical solutions of differential equations
CPNM Lab	C1108.1	Students will have a fundamental idea about computer programming concept
	C1108.2	Students will have a fundamental idea to prepare algorithm and flowchart to solve simple engineering problems
	C1108.3	Students will have a fundamental idea to write C program to solve simple engineering programs using control statements, arrays and functions
	C1108.4	Students will have a fundamental idea to write C program to solve simple engineering programs using pointers, function call by value ar function call by reference
	C1108.5	Students will have a fundamental idea to write C program to solve simple engineering programs using structures and files
	C1108.6	Students will have a fundamental idea about sources of errors in numerical methods
	C1108.7	Students will have a fundamental idea to carry out interpolation using Lagrange technique and numerical integration
	C1108.8	Students will have a fundamental idea to solve partial differential equations.
Mathematics-III	C1201.1	Apply the concept of lines, planes, spheres and the students are through in defining and evaluating geometric figure
	C1201.2	Solve double and triple integrals to find areas and volumes.
	C1201.3	Apply special functions to evaluate improper integrals.
	C1201.4	Compute Fourier series for different function and also half range series certain types of functions.
Physics	C1202.1	Learn the laws of Thermodynamics, efficiency of heat engine and their importance in Engineering.
	C1202.2	Study the importance of Maxwell equations in electromagnetic fields.
	C1202.3	Gains the knowledge of optical phenomena and identify their importance in Engineering.
	C1202.4	Understand the working of Lasers & its propagation through Optical fibers and importance of Ultrasonic waves in engineering application
	C1202.5	Acquire the knowledge of Superconductors, Nanomaterials and their utilization in various applications.
Engg Graphics	C1204.1	Draw basic components of engineering drawing viz scales, curves etc.
	C1204.2	Produce orthographic projections, make sectional drawings and developments as per National and International standards.
	C1204.3	Produce solid machine components using various drawing techniques viz Isometric.
Professional Ethics And	C1205.1	Understand the values in education and real life

Moral values	C1205.2	Understand the values in respective professions and analyze the ethical role of engineers
	C1205.3	Understand the concept of harmony in life and moral responsibility of engineers.
	C1205.4	Understand environmental ethics and apply in real life
PSQT	C1203.1	Apply various probability distribution for both discrete and continuous random variable
	C1203.2	Apply the terms of the sampling distribution and test the hypothesis for small samples
	C1203.3	Apply the terms of the sampling distribution and test the hypothesis for large samples
	C1203.4	Solve the numerical data to fit the curves and apply queue models to real life problems
WORKSHOP	C1207.1	Apply wood working knowledge in making simple wood joints
	C1207.2	Apply the development of surfaces concept in producing simple sheet metal works
	C1207.3	Prepare simple fitting joints with the use of proper fitting tools
	C1207.4	Acquire the knowledge on usage of different Tools used in carpentary, Tinsmithy and Fitting
English Language Lab	C1208.1	Recognize the sounds of English with the help of audio visual aids
	C1208.2	Build confidence and overcome inhibitions while speaking in English.
	C1208.3	Demonstrate acquired language skills in performing the designated activity.
Physics Lab	C1206.1	Apply the knowledge of different phenomena of light like interference, diffraction and handle various optical measuring instruments.
	C1206.2	Verify the laws of thermo dynamics, electro magnetism and stretched string.
	C1206.3	Draw the relevance between theoretical knowledge and the means to imply it in a practical manner by performing various relative experiments

Information Technology

COURSE	C.O CODE	COURSE OUTCOME DESCRIPTION
	C1101.1	Apply The Four Languages Learning Skills-Listening, Speaking, Reading, Writing (Lsrw) For Professional Success.
Frailah	C1101.2	Employ Knowledge Of Grammatical Structures And Vocabulary In Speech And Writing
English	C1101.3	Apply Effective Communication Skills To Enhance Professional Possibilities.

	C1101.4	Develop Acceptable Personality Traits Suitable For Chosen Profession.
	C1102.1	Apply the partial differentiation techniques in physical problem.
Mathematics-I	C1102.2	Apply the ordinary differential equation of first order and concerned applications.
	C1102.3	Apply higher order differential equations and concerned applications.
	C1102.4	Apply different type of tests to evaluate convergence of infinite series.
	C1103.1	Solve System Of Linear Simultaneous Equations Of Various Matrix Methods.
Mathematics-II	C1103.2	Apply Eigen Value Computation Techniques To Reduce A Given Quadratic To Canonical Form
	C1103.3	Apply Laplace Transforms Functions For Solving Ordinary Differential Equations.
	C1103.4	Apply Special Functions To Evaluate Improper Integrals.
	C1104.1	Select the methods used for purification of water for domestic and industrial purposes
Chemistry	C1104.2	Identify the advantages and limitations of plastics, building materials and their use in day to day life
	C1104.3	Select the suitable methods of corrosion control.
	C1104.4	Identify the fuels which are commonly used and their economics, advantages and limitations.
	C1104.5	Obtain the knowledge of semiconductors, super conductors and liquid crystals
	C1106.1	Students will be able to identify appropriate C language constructs to solve problems
Computer programming &	C1106.2	Understand the concepts of homogeneous data types to solve different problems
Numerical Methods	C1106.3	Apply the concepts of function modules, its usage and memory allocation using pointers
	C1106.4	Understand the concepts of heterogeneous data types and file handling feature in C
	C1106.5	Solve system of linear algebraic equations and apply Newton's forward & backward interpolation for equal intervals, Lagrange's formulae for unequal intervals
	C1106.6	Describe the concept of numerical integration and numerical solutions of differential equations
History of science &	C1108.1	Understand about the scientific history of India, a particular period's of Indian cultural habitats and the how to improvements of science and tech
Technology	C1108.2	Understand about policy resolution statements of India, and CSIR activities
	C1108.3	Understand the applications Bio-technology & amp; its applications like DNA Finger printing, cloning, Tissue culture
	C1108.4	Understand about the Indian Defence research and their imp. & amp; ocean development and biological resources, & amp; research institutions. Understand about the Indian satellites, launch vehicle technology, types of satellites etc., technology Transfer and fore casting

	C1110.1	Obtain the knowledge of acid-base titrations to determine the strength of acid and base solutions.
Chemistry Lab	C1110.2	Gain the knowledge of Redox titrations to determine the concentration of samples such as Ores and oxalic acid using different indicators.
	C1110.3	Obtain the knowledge of complexometry titrations to determine the hardness of given water sample by EDTA method.
	C1110.4	Gain the knowledge of commonly used instrument PH meter to determine the strength of given acid solution.
	C1112.1	Students will have a fundamental idea about computer programming concept.
CP Lab	C1112.2	Students will have a fundamental idea to prepare algorithm and flowchart to solve simple engineering problems
	C1112.3	Construct programs that demonstrate effective use of C features including arrays, strings, structures, pointers and files
	C1112.4	Students will have a fundamental idea about sources of errors in numerical methods
	C1112.5	Students will have a fundamental idea to carry out interpolation using Lagrange technique and numerical integration
	C1112.6	Students will have a fundamental idea to solve partial differential equations.
	C1201.1	Apply the concept of lines, planes, spheres and the students are through in defining and evaluating geometric figure.
Mathematics-III	C1201.2	Solve double and triple integrals to find areas and volumes.
	C1201.3	Apply special functions to evaluate improper integrals.
	C1201.4	Compute Fourier series for different function and also half range series certain types of functions.
	C1202.1	Know the laws of Thermodynamics, conversion mechanism and efficiency of heat energy to work and their importance in Engineering
Physics	C1202.2	Learn the Electric & amp; Magnetic fields and their relation, time varying electromagnetic fields and their energy transportation.
	C1202.3	Explain the concepts of interference, diffraction and Polarization undergo analysis of optical effects and contribute to engineering applications
	C1202.4	Understand the Lasers & amp; its propagation through Optical fibers and importance of Ultrasonic waves and able to apply these in different applications in engineering.
	C1202.5	Understand the importance of Superconductors Nanomaterials in various Engineering applications and also learn the concepts of Quantum mechanics to explain the electrical behaviour of the materials at atomic level
	C1204.1	Draw basic components of engineering drawing viz scales, curves etc.
Engineering Graphics	C1204.2	Produce projections; make sectional drawings and developments as per National and International standards.
	C1204.3	Produce solid machine components using various drawing techniques viz Isometric.
	C1206.1	Understand the values in education and real life
	C1206.2	Understand the values in respective professions and analyze the ethical role of engineers

Professional Ethics & Moral Values	C1206.3	Understand the concept of harmony in life and moral responsibility of engineers.
	C1206.4	Understand environmental ethics and apply in real life
	C1208.1	Apply various probability distributions for both discrete and continuous random variable.
	C1208.2	Apply the terms of the sampling distribution and test the hypothesis for small samples
PSQT	C1208.3	Apply the terms of the sampling distribution and test the hypothesis for large samples
	C1208.4	Solve the numerical data to fit the curves and apply queue models to real life problems.
	C1209.1	Apply the knowledge of different phenomena of light like interference, diffraction and handle various optical measuring instruments.
	C1209.2	Verify the laws of thermo dynamics, electro magnetism and stretched string.
Physics Lab	C1209.3	Draw the relevance between theoretical knowledge and the means to imply it in a practical manner by performing various relative experiments
	C1211.1	Apply wood working knowledge in making simple wood joints
Workshop	C1211.2	Apply the development of surfaces concept in producing simple sheet metal works
-	C1211.3	Prepare simple fitting joints with the use of proper fitting tools
	C1213.1	Recognize the sounds of English with the help of audio visual aids
Eng Lab	C1213.2	Build confidence and overcome inhibitions while speaking in English.
	C1213.3	Demonstrate acquired language skills in performing the designated activity.