An ISO 9001:2015 Certified Institution
PRIYADARSHINI INSTITUTE OF SCIENCE AND TECHNOLOGY FOR WOMEN
(Approved by AICTE, New Delhi and Affiliated to JNTUH Hyderabad)
SaiPrabhath Nagar, Khammam Rural -507003, Khammam Dist., Telangana State.
Website:www.priw.ac.inEmail Id:jks_edu@yahoo.comCell:+91-92466 25050.

ELECTRICAL AND ELECTRONICS ENGINEERING

I Year-I Sem

MATHEMATICS – I

(MA101BS)

Course Outcomes:

After learning the contents of this paper the student must be able to

1) Write the matrix representation of a set of linear equations and to analyse the solution of the system of equations Find the Eigen values and Eigen vectors
2) Reduce the quadratic form to canonical form using orthogonal transformations.
3) Analyse the nature of sequence and series. Solve the applications on the mean value theorems.
4) Evaluate the improper integrals using Beta and Gamma functions
5) Find the extreme values of functions of two variables with/ without constraints.

BASIC ELECTRICAL ENGINEERING

(EE108ES/EE208ES)

Course Outcomes:

1) To analyze and solve electrical circuits using network laws.
2) To analyze and solve electrical circuits using theorems.
3) To understand and analyze basic Electric and Magnetic circuits
4) To study the working principles of Electrical Machines
5) To introduce components of Low Voltage Electrical Installations

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CHEMISTRY

(CH102BS/CH202BS)

Course Outcomes:

The basic concepts included in this course will help the student to gain:

1) The knowledge of atomic, molecular and electronic changes, band theory related to conductivity.
2) The required principles and concepts of electrochemistry, corrosion and in understanding the problem of water and its treatments.
3) The required skills to get clear concepts on basic spectroscopy and application to medical
4) The required skills to get clear concepts on basic spectroscopy and application to medical and other fields.
5) The knowledge of configurational and conformational analysis of molecules and reaction mechanisms.

ENGLISH

(EN105HS/EN205HS)

Course Outcomes:

Students should be able to

1) Use English Language effectively in spoken and written forms.
2) Comprehend the given texts and respond appropriately.
3) Communicate confidently in various contexts and different cultures.
4) Acquire basic proficiency in English including reading and listening comprehension,
5) Acquire basic proficiency in English including, writing and speaking skills.

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BASIC ELECTRICAL ENGINEERING LAB

(EE108ES/EE208ES)

Course Outcomes:

1) Get an exposure to basic electrical laws.
2) Understand the response of different types of electrical circuits to different excitations.
3) Understand the measurement, calculation and relation between the basic electrical parameters
4) Understand the basic characteristics of transformers and electrical machines.

ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB

(EN107HS/EN207HS)

Course Outcomes:

Students will be able to attain

1) Better understanding of nuances of English language through audio- visual experience and
2) Better understanding of nuances of English language through group activities
3) Neutralization of accent for intelligibility
4) Speaking skills with clarity and confidence which in turn enhances their employability Skills

ENGINEERING WORKSHOP

(ME105ES/ME205ES)

Course Outcomes:

At the end of the course, the student will be able to:

1) Study and practice on machine tools and their operations
2) Practice on manufacturing of components using workshop trades including pluming, fitting,
3) carpentry, foundry, house wiring and welding.
4) Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiseling.
5) Apply basic electrical engineering knowledge for house wiring practice.

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ENGINEERING CHEMISTRY LAB

(CH106BS/CH206ES)

Course Outcomes:

The experiments will make the student gain skills on:

1) Determination of parameters like hardness content in water.
2) Determination of parameters like chloride content in water
3) Estimation of rate constant of a reaction from concentration – time relationships.
4) Determination of physical properties like adsorption and viscosity.
5) Calculation of Rf values of some organic molecules by TLC technique.

Principal

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ELECTRICAL AND ELECTRONICS ENGINEERING
I Year-II Sem

PROGRAMMING FOR PROBLEM SOLVING

(CS106ES/CS206ES)

Course Outcomes:

The student will learn

1) To write algorithms and to draw flowcharts for solving problems.
2) To convert the algorithms/flowcharts to C programs.
3) To code and test a given logic in C programming language.
4) To decompose a problem into functions and to develop modular reusable code.
5) To use arrays, pointers, strings and structures to write C programs. Searching and sorting problems.

MATHEMATICS – II

(MA201BS)

Course Outcomes:

After learning the contents of this paper the student must be able to

1) Identify whether the given differential equation of first order is exact or not
2) Solve higher differential equation and apply the concept of differential equation to real world problems
3) Evaluate the multiple integrals and apply the concept to find areas, volumes, centre of mass and
4) Gravity for cubes, sphere and rectangular parallelopiped
5) Evaluate the line, surface and volume integrals and converting them from one to another

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ENGINEERING GRAPHICS

(ME104ES/ME204ES)

Course Outcomes:

At the end of the course, the student will be able to:

1) Preparing working drawings to communicate the ideas and information.
2) Read, understand and interpret engineering drawings.
3) Apply Orthographic Projection Techniques
4) Visualize and Draw Isometric Projections
5) Understand and Draw Projections of Solids

PROGRAMMING FOR PROBLEM SOLVING LAB

(CS106ES/CS206ES)

Course Outcomes:

The candidate is expected to be able to:

1) formulate the algorithms for simple problems
2) translate given algorithms to a working and correct program
3) correct syntax errors as reported by the compilers
4) identify and correct logical errors encountered during execution
5) represent and manipulate data with arrays, strings and structures
6) use pointers of different types
7) create, read and write to and from simple text and binary files
8) modularize the code with functions so that they can be reused

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APPLIED PHYSICS

(AP102BS/AP202BS)

Course Outcomes:

Upon graduation:

1) The student would be able to learn the fundamental concepts on Quantum behaviour of matter in its micro state.
2) The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fibre
3) optics enable the students to apply to various systems like communications, solar cell, photo cells and so on.
4) Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.
5) The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.

APPLIED PHYSICS LAB

(AP105BS/AP205BS)

Course Outcomes:

Upon graduation:

1) The student would be able to learn the fundamental concepts on Quantum behaviour of matter
in its micro state.
2) The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fibre optics enable the students to apply to various systems like communications, solar cell, photo cells and so on.
3) Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.
4) The course also helps the students to be exposed to the phenomena of electromagnetism
5) The course also helps the students to be exposed to have exposure on magnetic materials and dielectric materials.

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ENVIRONMENTAL SCIENCE

(*MC109ES)

Course Outcomes:

1) Based on this course, the Engineering graduate will understand /evaluate / develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development
2) Understand the Fundamentals of Environmental Science
3) Identify the Components of the Environment
4) Analyze Human Impact on the Environment
5) Understand the Importance of Natural Resources

Principal