Chemistry group

1 ENGINEERING MATHEMATICS-I

Course Outcomes (CO)

At the end of the course the students should be able to

CO1) solve the system of linear equations.

CO2) Check linear dependence and independence of vectors.

CO3) Apply basic mathematical operations on complex numbers.

CO4) Expand functions as a power series and find limits of various indeterminate forms.

CO5) Find partial derivatives of functions of several variables.

CO6) Find the solution of system of linear equations using various numerical methods

2 APPLIED MECHANICS

Course Outcomes:

CO1) Apply some basic principles & concepts of mechanics to solve real world Engineering problems.

CO2) Analyze problems in simple & logical way & solve it in systematic manner.

CO3) Learn how the bodies maintain equilibrium in real structures & calculate Forces applied by different bodies on one another.

CO4) Understand the effect of forces on body in rest & in motion.

CO5) To understand dynamics of rigid bodies.

CO6) To understand the concept of equilibrium.

3 ENGG. CHEMISTRY

Course Outcomes (COs) : Students should be able to

CO1) analyze water sample for pollution control.

CO2) apply Knowledge of Engg. Materials in construction.

CO3) utilize the knowledge of instrumentation for chemical analysis.

CO4) select proper fuels for domestic , and industrial applications.

CO5) apply the significance of corrosion in industries .

CO6) use knowledge of green chemistry to keep environment ecofriendly.

4 FUNDAMENTALS OF ELECTRONICS & COMPUTER

COURSE OUTCOMES: Students will have an ability

CO1) to demonstrate the fundamentals related to electronics devices .

CO2) to test & measure the performance of electronic devices.

CO3) to apply the basic working principles of electronic appliances, computer hardware & software

CO4) to solve the problems related to number system conversion

CO5) to utilize the different concepts related to computer networking

CO6) to illustrate the features & functions of different types of operating systems

5 PROFESSIONAL COMMUNICATION - I

Course Outcomes: At the end of successful completion of course, the students will be able to
CO1) State the process of communication cycle.

CO2) Articulate grammatically accurate sentences while communicating.

CO3) Apply the techniques of Listening, Speaking, Writing and Reading skills.

CO4) Use correct pronunciation, stress and intonation while speaking in public.

CO5) Show effective use of verbal and nonverbal communication skills.

CO6) Compose various business letters in appropriate format and structure

6 WORKSHOP PRACTICE-I

Course Outcomes: After completion of this course, the students will be able to:

CO1) apply hand tools and power tools.

CO2) Analyze the operations of machine tools.

CO3) select the appropriate tools required for specific operation.

CO4) demonstrate the safety measures required during machining operation.

CO5) interpret the given production drawings.

CO6) use the Measuring Instruments in actual practice.

PHYSICS GROUP

1 ENGINEERING MATHEMATICS-II

Course Outcomes (CO): At the end of the course the students should be able to

CO1)Solve ordinary differential equations of first order and first degree..

CO2) Find solutions of geometrical and engineering problems.

CO3) Solve ordinary differential equations of first order and first degree, using numerical methods

CO4) Evaluate definite integrals using special functions.

CO5) Trace various Cartesian and polar curves

.CO6) Compute double integrals

2 ENGINEERING GRAPHICS

Course Outcomes: The students will be able to

CO1) Write and read the language of Engineering Graphics.

CO2) Prepare neat orthographic drawings of points, straight lines, and regular planes and solids.

CO3) Draw dimensional shapes by using the given dimensions.

CO4) Figure out orthographic projection to represent three-dimensional objects in two-dimensional views

CO5) Sketch neat isometric drawings of regular planes and solids

CO6) Visualize and construct the objects by developing surfaces of solids with cutting planes.

3 BASIC CIVIL ENGINEERING

Course Outcomes: After completion of the course, students will be able to,

CO 1. demonstrate basic knowledge in different fields of Civil Engineering

CO 2. apply principles of planning, building Bye laws

CO 3. explain various uses and properties of building materials and also types of loads acting on building.

CO 4. illustrate linear and angular measurements by considering principles and significance of Surveying.

CO 5. Identify nature of ground by using methods of leveling

CO 6. list components of pavements, railway track and water supply scheme.

4 BASIC ELECTRICAL ENGINEERING

COURSE OUTCOMES: After the completion of the course, the student should be able

CO1) To predict the behaviour of electrical and magnetic circuits.

CO2) Select the type of motor required for a particular application.

CO3) Realize the requirement of transformers in transmission and distribution of electric power and other applications.

CO4) Practice Electrical Safety Rules & standards.

CO5) To function on multi-disciplinary teams.

5 ENGINEERING PHYSICS

Course Objective: At the end of successful completion of course, the student will be able

CO1) To apply Engineering Physics principles, while addressing Engineering problem.

CO2) To understand the different phenomenon of light.

CO3) To design the system and components to meet desired needs of nuclear power plant.

CO4) To analyze the different crystalline symmetries.

CO5) To solve problems related to quantum mechanics.

CO6) To utilize nanophysics theory and phenomenon to produce Nanomaterials.

6 PROFESSIONAL COMMUNICATION -II

Course Outcomes: At the end of successful completion of course, the students should be able to:

CO1) Apply the advanced techniques in any genre of formal writing.

CO2) Use suitable structure in writing various types of technical reports.

CO3) Demonstrate acceptable behavioural skills and etiquettes in any corporate settings.

CO4) Present themselves professionally while meeting and addressing business colleagues.

CO5) Give successful interviews at various places and occasions.

CO6) Exhibit excellent interpersonal communication skills in Group Discussions

7 WORKSHOP PRACTICE II

Course Outcomes: After completion of this course, the students will be able to:

CO1) Recommend the safety rules in workshop practice .

CO2) Describe measuring instruments and manufacturing equipments in mechanical workshop.

CO3) Create various objects to the given dimensions by using various types of tools.

CO4) Discuss how to comply with workshop practices for successful improvision actualization of the class room situation.

CO5) Explain the importance of quality

CO6) Apply their practical skills in respective trades