B.E. 2nd Semester

Course: Engineering Mathematics – II   **Course Code: (1B1)**

At the end of Engineering Mathematics – II course; the students will be able to:

CO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
CO 1	Apply essential tool of matrices and linear Algebra in Comprehensive Manner.	L3
CO 2	Use the tool of Fourier series for solving advanced engineering mathematics problems.	L3
CO 3	Evaluation of Integrals by Reduction formulae, Gamma and Beta function.	L3
CO 4	Use the techniques of DUIS to evaluate Integral and tracing of curves.	L2
CO 5	Evaluating multiple integrals and their uses by need of mathematical tools.	L3
CO 6	Evaluation of volume integrals over three-dimensional domain by using triple integration.	L3

Course: Engineering Chemistry   **Course Code: (1B2)**

At the end of Engineering Chemistry course; the students will be able to:

CO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
CO 1	Apply the knowledge of chemistry in softening processes involved in water Technology	L3
CO 2	Identify various types of corrosion and methods to protect the metallic structures form corrosive environment and Understanding of the energy storage system (battery)	L2
CO 3	Apply the knowledge of useful engineering materials such as cement, lubricants, ceramics, refractories and nano materials based on their properties and developed the technic involved in the manufacturing process of cement.	L3
CO 4	Apply the knowledge about the properties of chemical fuels for the generation of power.	L3
CO 5	Apply the knowledge of various polymeric material, their synthesis and applications.	L3
CO 6	Identify various phases of material at different thermodynamics variables also identification and analysis of materials by using advance analytical technics	L2

Course: Basic Electrical Engineering   **Course Code: (1B3)**

At the end of Basic Electrical Engineering course; the students will be able to:

CO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
CO 1	Draw projection of point, line and regular planes inclined to both reference planes.	L4
CO 2	Interpret and draw projections of simple solids	L3
CO 3	Draw and represent sections of simple solids and the true shape of sections.	L4
CO 4	Interpret and draw orthographic views of machine parts in first and third angle projection method.	L3
CO 5	Interpret and draw Isometric projections of simple engineering objects.	L3
CO 6	Use graphics software to create Engineering drawings and represent engineering systems.	L3

Course: Engineering Graphics   **Course Code: (1B4)**

At the end of Engineering Graphics course; the students will be able to:

CO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
CO 1	Draw projection of point, line and regular planes inclined to both reference planes.	L4
CO 2	Interpret and draw projections of simple solids	L3
CO 3	Draw and represent sections of simple solids and the true shape of sections.	L4
CO 4	Interpret and draw orthographic views of machine parts in first and third angle projection method.	L3
CO 5	Interpret and draw Isometric projections of simple engineering objects.	L3
CO 6	Use graphics software to create Engineering drawings and represent engineering systems.	L3

Course: English Communication skills Laboratory　　　　**Course Code: (1B5)**

At the end of English Communication skills Laboratory course; the students will be able to:

LO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
LO 1	Apply vocabulary & English grammar rules in effective way of English writing & speaking.	L3
LO 2	Reproduce their understanding of concepts, principles of communication in group discussion, interview skill, seminar skill & conferences.	L4
LO 3	Implement themselves well in front of large audience on a variety of topics.	L3

Course: Engineering Chemistry Laboratory　　　　**Course Code: (1B6)**

At the end of Engineering Chemistry Laboratory course; the students will be able to:

LO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
LO 1	Understand the objective of their experiments.	L2
LO 2	Record and analyze the results.	L4
LO 3	Follow the proper and safe procedure to get the accurate results.	L3

Course: Basic Electrical Engineering Laboratory   **Course Code: (1B7)**

At the end of Basic Electrical Engineering Laboratory course; the students will be able to:

LO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
LO 1	Compare electrical components with their ratings and understand the usage of electrical measuring instruments.	L4
LO 2	Analyze different network theorems for dc circuits.	L4
LO 3	Analyze RLC circuits.	L4
LO 4	Understand the basic concept of transformer and electrical machine.	L2

Course: Engineering Graphics Laboratory   **Course Code: (1B8)**

At the end of Engineering Graphics Laboratory course; the students will be able to:

LO No.	Course Outcome	Level of Learning (as per Bloom's Taxonomy)
LO 1	Create the projections and sectional views of 1D, 2D and 3D objects.	L3
LO 2	Draw orthographic and isometric views of objects.	L4
LO 3	Use graphics software to create engineering drawing and represent engineering systems.	L3