# Department of Applied Science and Humanities

## B.E. 2ⁿᵈ Sem

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

At the end of Engineering Mathematics-II course the student will be able:

**CO 1:** To understand essential tool of matrices and linear Algebra in
Comprehensive Manner

**CO 2:** To understand evaluation of Integrals by Reduction formulae, Gamma and Beta
function.

**CO 3:** To use the tool of Fourier series for learning advanced engineering mathematics.

**CO 4:** To use the techniques of DUIS to evaluate Integral and tracing of curves.

**CO 5:** To understand mathematical tools needed in evaluating multiple integrals and their uses.

**CO 6:** To evaluate the evaluation of volume integrals over three-dimensional domain by
using triple integration.


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

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

**CO 1:** To apply the knowledge of chemistry in softening processes involved in water
Technology

**CO 2:** To identify various types of corrosion and methods to protect the metallic structures
form corrosive environment and Understanding of the energy storage system
(battery)

**CO 3:** To appply 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.

**CO 4:** To apply the knowledge about the properties of chemical fuels for the generation
of power.

**CO 5:** To apply the knowledge of various polymeric material, their synthesis and
applications.

**CO 6:** To identify various phases of material at different thermodynamics variables also
identification and analysis of materials by using advance analytical technics

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

At the end of Basic Electrical Engineering course the student will be able:

**CO 1:**  To analyze various basic laws and theorems of electrical circuits.

**CO 2:**  To predict the behavior of any magnetic circuits.

**CO 3:**  To solve problems on AC fundamentals.

**CO 4:**  To solve problems on the Polyphase circuit.

**CO 5:**  To describe the operation of transformers, types of DC motors and their applications.

**CO 6:**  To explain working principle construction & application of measuring instruments and earthling.


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

At the end of Engineering Drawing course the student will be able:

**CO 1:**  To draw projection of point, line and regular planes inclined to both reference planes.

**CO 2:**  To interpret and draw projections of simple solids.

**CO 3:**  To draw and represent sections of simple solids and the true shape of sections.

**CO 4:**  To interpret and draw orthographic views of machine parts in first and third angle projection method.

**CO 5:**  To interpret and draw Isometric projections of simple engineering objects.

**CO 6:**  To use graphics software to create Engineering drawings and represent engineering systems.