BACHELOR OF ENGINEERING (HONS) ELECTRONIC ENGINEERING

PROGRAMME OBJECTIVES

The Programme Objectives describes the career and professional accomplishments that the EE programme prepares the graduates to achieve in a few years after their graduation.

i. The graduates of Electronic Engineering programme will utilise state-of-the-art knowledge and techniques in synthesis, maintenance, service, sales and marketing of electrical, electronics and computer systems.

ii. The graduates will be engaged in research and development for the advancement of knowledge and cutting edge technology.

iii. The graduates will be assuming technical, managerial and ethical leadership roles with commanding oral and written communication skills.

iv. The graduates will be involved in the affairs of professional institutions and keep abreast of the nation’s needs and developments, and provide services to the engineering communities and the nation

PROGRAMME OUTCOMES

The Programme Outcomes refer to the attributes that students should possess at the point of their graduation. These programme outcomes can be classified into three categories: 1) Technical Competencies, 2) Soft Skills, and 3) Attitudes.

1) Technical Competencies

Students should possess the following technical competencies:

   i. Ability to apply knowledge of mathematics, science and engineering appropriate to the discipline
   ii. Ability to identify, formulate, and solve engineering problems
   iii. Ability to design and conduct experiments, analyze and interpret data
   iv. Ability to design a system, component, or process to meet desired needs
   v. Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

2) Soft Skills

Students should have the following soft skills:

   vi. Ability to function in multi-disciplinary teams
   vii. Ability to write effectively and also communicate effectively with individuals from different backgrounds
   viii. Ability to understand and commit themselves to professional and ethical responsibilities

3) Attitudes

Students should develop the following attitudes:

   ix. Understanding the impact of engineering solutions in a social context
   x. Recognition of the need for, and an ability to engage in life-long learning
   xi. Knowledge of contemporary issues