APPROVED

EN8030: Microcontrollers

Course Details

Course Code:	EN8030
Course Title:	Microcontrollers APPROVED
Short Title:	
Course Level::	Level 8
Valid From::	2019/2020 Sem 1
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	To provide students with a strong foundation for programming, analysis and design of an advanced microcontroller based system for a real world application.

CILO	
On Completion of this course, the learner will be able to	
#	**Learning Outcome Description**
1	Programme a commercial microcontroller in an advanced embedded system using C and Assembly programming languages.
2	Programme a commercial microcontroller in an advanced embedded system to interface with a range of specialized electronic circuits using level and clocked interface.
3	Design, implement and critically analyze advanced algorithms to achieve specified outcomes for embedded systems.
4	Apply and demonstrate advanced problem solving skills and group work skills in the design, implementation and reporting on an advanced open ended embedded systems project.

Requisites

- Pre Requisite: EN7030 (ENB6030) & EN7006 (ENB6006)

Examinations
Assessment Type Examination (Unseen)

Other Controlled Assessments
Assessment Type Lab Assignment

Uncontrolled Assessments
Assessment Type Project (Group)

Affiliated Entities

Entity Code	Entity Title	Entity Version	Entity Type
ENT8031	Bachelor of Engineering Technology (Electronics)	4	Programme