## DMX4307 Electrical Machines and Drives

Level	4
Course Code	DMX4307
Course Title	Electrical Machines and Drives
Credit value	3
Core/Optional	Core
Course Aim/s	Aim of this course is to provide principles of electrical machines motor drives and their applications
Course Learning Outcomes (CLO):  Content	At the completion of this course student will be able to  CLO1: Explain the magnetism & electro-magnetism principles used in electrical machines & related devices.  CLO2: Demonstrate the knowledge of the operating principles and characteristics of different type of DC machines and AC Machines.  CLO3 Select and apply suitable electrical machines in different applications.  CLO4: Demonstrate the knowledge of DC and AC motor drives and describe their operating principles.  Outline Syllabus:  Unit 1: Electromagnetic circuits Unit 2: DC machines Unit 3: AC machines Unit 4: Motor Drives  Laboratory work:  1. Determination of the characterises of DC motor 2. Determination of the characterises of AC motor 3. Determination of the characterises of Stepper motor and perform speed control of stepper motor
	<ul><li>4. Speed control of DC Motor with aid of motor drives</li><li>5. Speed control of AC Motor with aid of motor drives</li></ul>