DMX5316 Mechatronics Product Design

Level	5
Course Code	DMX5316
Course Title	Mechatronics Product Design
Credit value	3
Core/Optional	Core
Course Aim	To provide the students with experience on applying the concepts in electronic circuit design, mechanical design, prototyping, testing and debugging, system integration and hardware construction through a design and development of product.
Course Learning	At the completion of this course student will be able to:
Outcomes (CLO):	CLO1: Demonstrate the knowledge of design procedures in the field of mechatronics applications.
	CLO2: Design and develop mechatronics products with the integration of knowledge gained from other engineering subjects.
	CLO3: Demonstrate the knowledge of prototyping, system integration and hardware construction in mechatronics engineering applications.
	CLO4: Apply the concepts of testing and debugging in mechatronics systems.
Content	Laboratory work
	 PIC microcontroller programming Atmelmicrocontroller (Arduino) programming Stepper motor controlling