



Robotics

Course Curriculum

Course Code		Duration	36 Hours
-------------	--	----------	----------

Expected competencies & skill-sets at end of training:

This program is aimed in training candidates in the new emerging trend of **Robotics** and its basic Applications, Robotics making & Scope.

1	Brief idea on Robotic
3	Idea generation & Problem-solving coding work
5	Generate an interest factor for multi-disciplinary projects

#	Module Name	Syllabus	NOS Code	Day	Hour Wise Plan	
					Theory	Practical
I	Robotic Beginning	1. Introduction to Robotic		1	1	-
		2. Robot types				-
		3. History of Robot				-
II	Basics of Electronics & Electrical Concepts	1. Concept of Electronic and Electrical		2-4	1	-
		2. Uses of Electronics components				-
		3. Working of Components				-
III	Rectifier	1. Rectifier, Types & Required Components		5-6	2	-
Assessment – 1				7	2	-
IV	Designing Of Power supply & Bot	1. Power Supply Boards		8-10	2	-
		2. Manual Robot				1
	Concept of	1. Sensors & Actuators		11-13	1	-
		2. Atmega328 & IDE install				1
Assessment – 2				14	2	-
VII	Arduino IDE	1. Arduino IDE, Coding's		15-17	1	1
		2. Controller & Processor				1
VIII	Hardware Interfacing	1. Sensors Interfacing		18-20	1	2
		2. Autonomy Coding				1
IX	Modules	1. Making Bot		21-25	1	2
X	Final Assessment			26	2	3
XI				-	-	-



Equipment Requirement:

: