



# IOT Basics

## Course Curriculum

Course Code		Duration	40 Hours
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Expected competencies & skill-sets at end of training:

This program is aimed in training candidates in the new emerging trend Internet of Things and its basic Applications, IOT Architecture & Scope.

1	Brief idea on IOT & Embedded Systems
3	Idea generation & Problem solving using IOT
5	Generate an interest factor for multi-disciplinary projects

#	Module Name	Syllabus	NOS Code	Day	Hour Wise Plan		
					Theory	Practical	
I	IOT Beginning	1. Introduction to IOT		1	1	-	
		2. IOT Structure				-	
		3. What is Internet of IOT				-	
II	Architecture & Scope	1. Why IOT is important		2-5		1	
		2. Applications of IOT				-	
		3. How is IOT changing the World				-	
III	IOT Technology	1. IOT, Characteristics & Technologies		6-12		2	-
Assessment – 1				13		2	-
IV	Programming	1. Programmable Boards		14-16		2	-
		2. Programming Languages (C & Embedded C)				2	1
Assessment – 2				17		2	-
	IOT Devices	1. Electronic Devices		18-20		1	-
		2. Sensors & Actuators				2	-
Assessment – 3				21		2	-
VII	ESP12/ESP32	1. Arduino IDE, Coding's		22-24		2	1
		2. Basic Components interfacing With ESP Modules				1	2
VIII	Hardware Interfacing	1. Sensors Interfacing		25-27		1	2
		2. LCD (16x2) Display				1	1
IX	Modules	1. Webserver Controls & Monitoring		28-29		1	2
X	Final Assessment & Certification			30		3	3
XI				-		-	-



Equipment Requirement:

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