

IOT Training package		
Courses	No of days	Hours
Module 1		
Core java	13	26
Overview Of Programming With Java		
Simple Programs and Development environment		2
Datatypes		
Primitive Datatypes		
Literals		
Variables		2
Operators		
Control Statements		
Selection Statements		
Blocks of code		2
Iteration statements (Loops)		
Jump Statements		
Methods - Importance		
Array - Overview		4
Classes		
Class Inheritance		
Methods Overriding, Overloading		
Abstract Class And Methods		4
Interfaces, Packages and Access Control		
final, static and others		
Object Oriented Concepts - Revisited		2
Exceptions		
Multithreaded Programming		6
The Java Thread Model		
Synchronization		
Strings		2
Collections Framework		
Collection Interface		2
Module 2		
Python	13	26
Beginning With Python		
The Python Interpreter and Idle		
Whirlwind Introduction To Types and Functions		
Integer Arithmetic		2
Variables and Assignment		
Print Function		
The Idle Editor and Execution		
Input and Output		2
Defining Functions of your Own		
Dictionaries		
Loops and Sequences		2

	Decimals, Floats, and Floating Point Arithmetic		
	Objects and Methods		
	Strings		4
	More Classes and Methods		
	Mad Libs Revisited		
	Graphics		6
	Files		
	More On Flow of Control		
	If Statements		
	Loops and Tuples		6
	While Statements		
	Arbitrary Types Treated As Boolean		
	Dynamic Web Pages		
	Web page Basics		
	Composing Web Pages in Python		4
	CGI - Dynamic Web Pages		
Module 3			
	C/C++	9	18
	Environment Setup		
	Program Structure		
	Basic Syntax		2
	Data Types		
	Variables		
	Constants		
	Storage Classes		
	Operators		2
	Decision Making		
	Loops		
	Functions		
	Scope Rules		2
	Arrays		
	Pointers		2
	Strings		
	Structures		
	Unions		2
	Typedef		
	input & Output		
	File I/O		2
	Preprocessors		
	Header Files		2
	Type Casting		
	Error Handling		2
	Recursion		
	Variable Arguments		2
	Memory Management		
Module 4			
	Basics of Electronics	3	6
	Introduction to hardware components		2

	Sensors and functionality of components		2
	Basic circuit rigup		2
Module 5			
	IoT Basics	40	80
	IoT Fundamentals		8
	Real world Applications &IoT Framework		2
	IoT Devices		
	• Arduino· Arduino· Arduino		10
	• Raspberry pi· Raspberry pi· Raspberry pi		24
	• Intel Galileo· Intel Galileo· Intel Galileo		6
	IoT LAB Exercise		30
Module 6			
	Cloud	15	30
	Basics of cloud		2
	Hands on experiance with cloud platforms(AWS,Azure)		28
Module 7			
	Android Development	15	30
	SQL		4
	Introduction to Android		2
	Application Structure (in detail)		2
	Emulator-Android Virtual Device		2
	Basic UI design		2
	Preferences		2
	Menu		2
	Intents (in detail)		2
	UI design		2
	Tabs and Tab Activity		2
	Styles & Themes		2
	Content Providers		2
	Android Debug Bridge (adb) tool		2
	Linkify		2
	Adapters and Widgtes		4
	Notifications		2
	Custom components		2
	Threads		2
	Advanced-sensors,networking		4
Module 8			
	Real time Project	8	16
	Smart Home implementation		10
	Temperature sensing rover		6
Total		116	232