

		6-Months
Track Covered	Class	Content
	Class 1	Introduction & DT process
Design Thinking	Class 2	DT Examples & Activity
	Class 3	Affordance
Product Design	Class 4	Signigiers
	Class 5	Conceptual Model
English Class	Class 6	Listening strategies
-	Class 7	System Image
	Class 8	System Image
	Class 9	Gulfs of Evaluation
Duaduct Danium	Class 10	Gulfs of Execution
Product Design	Class 11	Apply affordance and signifiers in design Use low-fidelity paper-based prototyping Explore multiple solutions to a problem Evolve your design by evaluating with users
English Class	Class 12	Reading
Liigiisii Olass	Class 13	Getting started with Arduino
	Class 14	Connect and Interface Arduino
	01000 14	Practical session - "Hello World" your first example, basic examples
Arduino	Class 15	Using Logics and Decision Making
7.1.440	Class 16	Getting started with Arduino Programming Kit
	Oldos IV	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions
	Class 17	Interfacing Sensors
English Class	Class 17	Speaking
Linglish Class	Class 18	Interfacing Peripherals & Interfacing Shield
Arduino	Class 19	Practical session - "Switch" cases
Ardullo		
	Class 21	Practical session - Using Maths and Creating Functions
	Project	Gulfs of Evaluation & Execution
	Class 22	Indentation Keywords
Python	Class 23	Identifiers Variables Constants Literals
	Class 24	Data Types
	Class 25	Control Flow - If, elif, else
For all also Olars	Class 26	Control Flow - for, while
English Class	Class 27	Reading Functions
	Class 28	
Python	Class 29	Object oriented programming - Class, Objects, Methods Object oriented programming - Encapsulation, Polymorphism,
	Class 30	Inheritance
	Class 31	Getting started with Raspberry Pi
	Class 32	Connect and Interface Raspberry Pi
	Class 33	Practical session - "Hello World" your first example, basic examples
	Class 34	Using Logics and Decision Making
	Class 35	
		Getting started with Raspberry Pi Programming kit
	Class 36	Getting started with Raspberry Pi Programming kit Practical session - if statement , While loop , switch cases and Using maths and Creating Functions
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Raspberry PI	Class 36	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions
Raspberry PI	Class 36 Class 37	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors
Raspberry PI	Class 36 Class 37 Class 38	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors - IR sensor,LDR,Flame sensor
Raspberry PI	Class 36 Class 37 Class 38 Class 39	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform.
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform.
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 44	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 43	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 48 Class 49	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter
Raspberry PI	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 50	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 51	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to Particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 50 Class 51 Class 51 Class 52 Class 53 Class 53	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to Particle cloud Desktop Applications & Tkinter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53 Class 53 Class 54	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & Tkinter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon Introduction to IOT RULE Engine and NODE-RED
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53 Class 53 Class 54	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon Introduction to IOT RULE Engine and NODE-RED Rotation matrices
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53 Class 53 Class 54 Class 55 Class 55 Class 55 Class 56 Class 57	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon Introduction to IOT RULE Engine and NODE-RED Rotation matrices Displacements Vectors
IOT	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53 Class 53 Class 54 Class 55 Class 55 Class 55 Class 55 Class 56 Class 57 Class 57	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon Introduction to IOT RULE Engine and NODE-RED Rotation matrices Displacements Vectors Exercise on Rotation matrics and Displacements Vectors
	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53 Class 53 Class 54 Class 55 Class 55 Class 55 Class 56 Class 57 Class 58 Class 59	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon Introduction to IOT RULE Engine and NODE-RED Rotation matrices Displacements Vectors Exercise on Rotation matrics and Displacements Vectors Homogeneous Transformation matrices
IOT	Class 36 Class 37 Class 38 Class 39 Class 40 Class 41 Class 42 Class 43 Class 44 Class 45 Class 46 Class 47 Class 48 Class 49 Class 50 Class 51 Class 52 Class 53 Class 53 Class 54 Class 55 Class 55 Class 55 Class 55 Class 56 Class 57 Class 57	Practical session - if statement , While loop , switch cases and Using maths and Creating Functions Interfacing sensors Interfacing sensors - IR sensor,LDR,Flame sensor Interfacing sensors - Moisture sensor, LM35 Temperature sensor,Pressure sensor Rain detector,PIR sensor,Ultrasonic sensor Raspberry pi projects in ThingWorx Platform. Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track Presentaion Introduction to IoT The Arduino Platform and C Programming Introduction to Particle Introduction to particle cloud Desktop Applications & TkInter Particle Pi and IFTTT interfacing sensor Pi to Pi Communication IoT Examples: Smart Homes Project using particle photon Introduction to IOT RULE Engine and NODE-RED Rotation matrices Displacements Vectors Exercise on Rotation matrics and Displacements Vectors

Robotics	Class 63	Project on Robotic ARM - using Inverse kinematics - part 2
English Class	Class 64	Writing
Robots & Drones	Class 65	Intro to Robots and Drones
	Class 66	Rigid Body Dynamics
	Class 67	Dynamics of Robot Arms
	Class 68	Intro to Linear and Non-Linear control
	Class 69	Stability Theory
	Class 70	Quadrotor Control
	Class 71	Trajectory Generation
	Class 72	Exercise - Planning and Control of a Quadrotor
Project Presentation	Class 74	Project Title Choosing & Presentation - Should submit your own Ideas and Titles for Product Track - Presentaion
	Class 75	