Government Polytechnic Sector-26 Panchkula

Name of Faculty: Guest Faculty

Discipline: Mechanical/Electrical/Computer Engg. Subject: Internet of Things and Artificial Intelligence

	Duration: 2020-21		
Week		Practical	
	Practical Day	Торіс	Group
Week 1	Day 1	Introduction to Internet of Things	G-I
	Day 2	Introduction to Internet of Things	G-II
	Day 3	Applications of Internet	G-I
Week 2	Day 4	Applications of Internet	G-II
Week 3	Day 5	Architechure and Protocols of Internet of Things	G-I
	Day 6	Architechure and Protocols of Internet of Things	G-II
Week 4	Day 7	Physical Design/Logical Design of Internet of Things	G-I
	Day 8	Physical Design/Logical Design of Internet of Things	G-II
Week 5	Day 9	Functional blocks of Internet of things, Commnication Model	G-I
	Day 10	Functional blocks of Internet of things, Commnication Model	G-II
Week 6	Day 11	Basics of C language using Arduino IDE	G-I
	Day 12	Basics of C language using Arduino IDE	G-II
Week 7	Day 13	Understating basics of Arduino IDE	G-I
	Day 14	Understating basics of Arduino IDE	G-II
Week 8	Day 15	Declaring of variable, datatypes	G-I
	Day 16	Declaring of variable, datatypes	G-II
Week 9	Day 17	Defferent types of loop(for loop, while&do while loop)	G-I
	Day 18	Defferent types of loop(for loop, while&do while loop)	G-II
Week 10	Day 19	1st Internal Assesment Exam	
VV CCH 10	Day 20	Defferent types of loop(for loop, while&do while loop)	G-I
Week 11	Day 21	Defferent types of loop(for loop, while&do while loop)	G-II
, , von 11	Day 22	Using Control Statement	G-I
Week 12	Day 23	Using Control Statement	G-II
	Day 24	Declaring Function	G-I
Week 13	Day 25	Declaring Function	G-II
,, con io	Day 26	using Arduino-interfacing sensors	G-I
Week 14	Day 27	using Arduino-interfacing sensors	G-II
	Day 28	Interfacing Light Emitting Diode(LED)	G-I
Week 15	Day 29	Interfacing Light Emitting Diode(LED)	G-II
	Day 30	Interfacing LED Blinking	G-I
Week 16	Day 31	Interfacing LED Blinking	G-II
,, con 10	Day 32	Interfacting button and LED, LED blinking when button is pressed	G-I
Week 17	Day 33	2nd Internal Assesment Exam	
	Day 34	Interfacting button and LED, LED blinking when button is pressed	G-II
Week 18	Day 35	Interfacting button and LED, LED blinking when button is pressed	G-I
	Day 36	Interfacting button and LED, LED blinking when button is pressed	G-II
	Day 37	Interfacing Light Dependent Resistor(LDR) and LED, display automatic night	G-I

Week 19	Day 38	Interfacing Light Dependent Resistor(LDR) and LED, display automatic night	G-II
Week 20	Day 39	Interfacing Light Dependent Resistor(LDR) and LED, display automatic night	G-I
	Day 40	Interfacing Light Dependent Resistor(LDR) and LED, display automatic night	G-II
Week 21	Day 41	Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g. DHT11)	G-I
	Day 42	Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g. DHT11)	G-II
Week 22	Day 43	Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g. DHT11)	G-I
	Day 44	Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g. DHT11)	G-II
Week 23	Day 45	Interfacing Liquid Crystal Display(LCD) – display data generated by sensor on	G-I
	Day 46	Interfacing Liquid Crystal Display(LCD) – display data generated by sensor on	G-II
Week 24	Day 47	Interfacing Liquid Crystal Display(LCD) – display data generated by sensor on	G-I
Week 24 Week 25 Week 26 Week 27 Week 28 Week 29	Day 48	Interfacing Liquid Crystal Display(LCD) – display data generated by sensor on	G-II
Week 25	Day 49	nterfacing Air Quality Sensor-pollution	G-I
	Day 50	nterfacing Air Quality Sensor-pollution	G-II
Week 26	Day 51	display data on LCD, switch on LED when data sensed is higher than specified value.	G-I
	Day 52	display data on LCD, switch on LED when data sensed is higher than specified value.	G-II
Week 27	Day 53	Interfacing Bluetooth module (e.g. HC05)	G-I
	Day 54	Interfacing Bluetooth module (e.g. HC05)	G-II
Week 28	Day 55	receiving data from mobile phone on Arduino and display on LCD	G-I
	Day 56	receiving data from mobile phone on Arduino and display on LCD	G-II
Week 29	Day 57 Interfacing Relay module to demonstrate Bluetooth	Interfacing Relay module to demonstrate Bluetooth	G-I
	Day 58	Interfacing Relay module to demonstrate Bluetooth	G-II
Week 30	Day 59	home automation application. (using Bluetooth and relay)	G-I
	Day 60	home automation application. (using Bluetooth and relay)	G-II
Week 31	Day 56 receiving data from mobile phone on Arduino and display on LCD Day 57 Interfacing Relay module to demonstrate Bluetooth Day 58 Interfacing Relay module to demonstrate Bluetooth Day 59 home automation application. (using Bluetooth and relay) Day 60 home automation application. (using Bluetooth and relay)	G-I	
Week 30 D Week 31 D D	Day 62	Introduction to Artificial Intelligence	G-II
Week 32	Day 63	Machine Learning (ML), Deep Learning (DL)	G-I
	Day 64	Machine Learning (ML), Deep Learning (DL)	G-II
Week 33	Day 65	Role of AI in IoT and its applications	G-I
	Day 66	Role of AI in IoT and its applications	G-II
Week 34	Day 67	Managing and Analysing data generated by IoT devices	G-I
	Day 68	Managing and Analysing data generated by IoT devices	G-II
Week 35	Day 69	Understanding excel for analysing data	G-I
	Day 70	Understanding excel for analysing data	G-II
-	•	•	-