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## Schedule - Arduino System Development

Session #	Title	Details
Session 1	Introduction to Arduino	Introduction, What is Embedded System, What is Arduino? What are types of Arduino, Arduino UNO in details, Hardware and Software, Little about interfacing hardware to Arduino, The Arduino way of Coding
Session 2	Getting Started with Arduino	Getting Started with Arduino with LEDs 1. Blinking of LEDs 2. Fading of LEDs 3. Working on RGB LED
Session 3	Switches and Relays	Something about switches and relays, Types of communication: serial and parallel, Microcontroller's serial communication with external devices, Bluetooth devices, GSM devices or PC interface.
Session 4	Switches and Relays - Lab	Read the input from Push button/Switch, Serial Communication using Arduino, Serial monitoring, Controlling LEDs from computer with serial monitor
Session 5	LDR and Display Interfacing	Sense the light intensity using LDR, Up counter using 7 segment display, Down counter using 7 segment display, Increment or decrement count using push button
Session 6	LCD Interfacing	Wiring of LCD screen with Arduino, Display a message on LCD, Change of message based on different events
Session 7	PIR Sensor Interfacing	Learn about PIR sensor, Hands on with PIR sensor, Fun with PIR sensor,
Session 8	DC Motor Interfacing	Concepts of DC motor, Speed control of DC Motor, Controlling of DC motor using PIR
Session 9	Mini Projects	Mini Projects
<b>Total Training Hrs</b>		<b>24</b>