MOONPRENEUR
Igniting Sparks of Innovation

Tier 2 - Robotics Car Kit- 12-Month Curriculum- Stage 1

SESSION NUMBER	SESSION NAME
Session 1	Introduction to the Robotics
Session 2	Introduction to Simulators
Session 3	Kit unboxing and verification & simple robotics activity
Session 4	Use of motor driver IC
Session 5	Controlling motor speed & direction
Session 6	Assembling & coding to test motor driver
Session 7	Circuit connection & Testing
Session 8	Speed control of motor
Session 9	Interfacing LCD
Session 10	Run the robot
Session 11	Introduction to I2C LCD
Session 12	Assemble hit switch and software
Session 13	Hit switch real life functioning
Session 14	IR Sensor Assembly and Software
Session 15	IR Sensor with LCD display
Session 16	IR Sensor & LCD project
Session 17	Assembly of Servo motor and Ultrasonic
Session 18	Ultrasonic with servo
Session 19	Programmimg concepts using Ultrasonic and Serial monitor
Session 20	Programming concepts using function parameters
Session 21	Obstacle detection - Part 1 (Using servo and ultrasonic)
Session 22	Obstacle avoiding - Part 2
Session 23	Servo Motor with Ultrasonic sensor and IR sensor
Session 24	Servo Motor with Ultrasonic sensor using IR sensor, LCD, Buzzer
Session 25	Accelerometer introduction part 1
Session 26	Accelerometer introduction part 2
Session 27	Accelerometer project
Session 28	Introduction of IR Array
Session 29	Line follower Robot Part 1
Session 30	IR Array Project 1
Session 31	Advanced software topics - Part I
Session 32	Advanced software topics - Part II
Session 33	Student Challenge 1 - Part I
Session 34	Student Challenge 1 - Part II
Session 35	Student Challenge 1 - Part III
Session 36	Student Challenge 2 - Part I
Session 37	Student Challenge 2 - Part II
Session 38	Student Challenge 2 - Part III
Session 39	Preparation for Next Stage

Disclaimer

** 1. The curriculum is subjected to changes and upgradation as per the feedback received from our customers.
2. Project and activities will depend on the type of course and tier.
3. Moonpreneur reserves all the rights to update its curriculum at any given point in time.

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Tier 2 - Robotics Car Kit- 12-Month Curriculum- Stage 2

SESSION NUMBER	SESSION NAME
Session 1	Identify user's need
Session 2	Define problem
Session 3	Ideation
Session 4	Gathering Components
Session 5	Preparation
Session 6	Prototyping Session 1
Session 7	Prototyping Session 2
Session 8	Prototyping Session 3
Session 9	Testing 1
Session 10	Testing 2
Session 11	Testing 3
Session 12	Final Evaluation
Session 13	Planning Future Prospects

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