

Self-Paced Digital Programs Catalogue - Annexure 3

S.No.	Name of the Product	No. of Modules
1	STEMIE (STEM+Innovator+Entrepreneur) Sr Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses	<p>1 To build a bot which moves in the Left, Right, Forward and Reverse directions on pressing the respective Push Button Switches.</p> <p>2 To build and programme a bot which moves in the Left, Right, Forward and Reverse directions on pressing the respective Push Button Switches.</p> <p>3 The project is designed to build an obstacle avoidance robotic vehicle using ultrasonic sensors for its movement.</p> <p>4 The project is designed to operate robotic vehicle using a TV remote.</p> <p>5 The project is designed to operate electrical loads using a TV remote.</p> <p>6 This project is designed to build a robot which can detect Toxic gases in hazardous areas of industries or factories by eliminating any human intervention</p> <p>7 This project is designed to alert a person from getting close to one another by maintaining social distance on going pandemic using ultrasonic distance measurement system</p> <p>8 The project is designed to develop a robotic vehicle that follows a specific path.</p> <p>9 The project is designed to change the color of lights using a TV remote.</p> <p>10 This project is designed to make a smart fan which works only on human present otherwise not to save the energy</p> <p>11 In the present manual operation system of highway lighting, unnecessary lights are on in the day time wasting the power. Sometimes in the night also when it is necessary, highway lights are off due to which fatal accidents occur. To overcome this problem we have designed an automation system for highway lighting, in that highway lights are auto switched on in the night by sensing dark and when day breaks they get switched off. In this project we use LDR(Light Dependent Resistor) a light sensor, Arduino and LEDs.</p> <p>12 This project is designed to alarm other people when any disable person is in need or in panic situation</p> <p>13 The project is designed to monitor the number of persons entering as well as exiting in a mall by bidirectional visitor counter</p> <p>14 The project is designed to develop a density based dynamic traffic signal system.</p> <p>15 This project is designed to operate car wipers automatically by sensing any stuff (like dirt, water) on the car glass</p> <p>16 This project is designed to automatically open the valves of liquid by sensing density of gases using servo motor</p> <p>17 This project is designed to make touchless trash can which lid automatically open by sensing any human approach</p> <p>18 This project is designed to make automatic hand sanitizer dispenser when person bring hand near to the sensor dispenser drops the sanitizer on the hand</p> <p>19 This project is designed to control window blinds open & close or adjust using TV remote</p> <p>20 This project is designed to alert people from fire detection and warn by alarming buzzer</p> <p>21 This project is designed to save energy by adding timer to the water</p>

		<p>heating geyser. A person can set the time for which water get heated.</p> <p>22 This project is designed to save energy by adding human detecting sensor. When there is person that time only lights will on otherwise if no human detection lights will get off</p> <p>23 This project is designed to make a stopwatch using Arduino controller</p> <p>24 This project is designed to Security of home digital by operating our door lock & unlock based on password entered. The project uses Arduino, LCD and keypad.</p>
2	<p>Sensor Based Basic Fundamental Innovation Development of hardware design and prototyping Blended Learning program. Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses</p>	<p>1 Auto Intensity Control of Street Light by 8051Controller</p> <p>2 Arduino based Auto Intensity Control of Street Light</p> <p>3 Highway Lighting System with Auto Turn Off on Day Time using 8051 Controller</p> <p>4 Arduino based Highway Lighting System with Auto Turn Off on Day Time</p> <p>5 LED Lamp Dimmer Circuit using 8051 Controller with Push button</p> <p>6 Arduino based LED Lamp Dimmer Circuit with Push button</p> <p>7 Discotheque Light Stroboscopic Flasher using 8051 Controller</p> <p>8 Arduino based Discotheque Light Stroboscopic Flasher</p> <p>9 Beacon Flasher using 8051 Controller</p> <p>10 Arduino based Beacon Flasher</p> <p>11 Electronic Eye Controlled Security System using 8051 Controller</p> <p>12 Arduino based Electronic Eye Controlled Security System</p> <p>13 Fire Detection with Alarm Sound using 8051 Controller</p> <p>14 Arduino based Fire Detection with Alarm Sound</p> <p>15 Temperature Detection with Alarm Sound using 8051 Controller</p> <p>16 Arduino based Temperature Detection with Alarm Sound</p> <p>17 Light Detection with Alarm Sound using 8051 Controller</p> <p>18 Arduino based Light Detection with Alarm Sound</p> <p>19 Moisture Detection with Alarm Sound using 8051 Controller</p> <p>20 Arduino based Moisture Detection with Alarm Sound</p> <p>21 Rain Alarm by 8051 Controller</p> <p>22 Arduino based Rain Alarm</p> <p>23 Shadow Alarm by 8051 Controller</p> <p>24 Arduino based Shadow Alarm</p> <p>25 Overhead Water Tank Level Indicator by 8051 Controller</p> <p>26 Arduino based Overhead Water Tank Level Indicator</p>
3	<p>Advanced Fundamental Innovation/Basic IOT Development of hardware design and prototyping blended learning program. Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses</p>	<p>1 Visitor Counter by 8051 Controller</p> <p>2 Arduino based Visitor Counter</p> <p>3 Optimum Energy Management System by 8051 Controller</p> <p>4 Arduino based Optimum Energy Management System</p> <p>5 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication by 8051 Controller with Relay</p> <p>6 Arduino based Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication with Relay</p> <p>7 IR Obstacle Detection to Actuate Load using 8051 Controller with Relay</p> <p>8 Arduino based IR Obstacle Detection to Actuate Load with Relay</p> <p>9 Auto Power Supply Control from 4 Different Sources: Solar, Mains, Generator and Inverter to Ensure No Break Power using 8051 Controller with Relay</p> <p>10 Arduino based Auto Power Supply Control from 4 Different Sources: Solar, Mains, Generator and Inverter to Ensure No Break Power with Relay</p> <p>11 Programmable Switching Control for Industrial Automation in Repetitive</p>

		<p>Nature of Work using 8051 Controller with Relay and push button 12 Arduino based Programmable Switching Control for Industrial Automation in Repetitive Nature of Work with Relay and push button 13 Load Control System using 8051 Controller with Relay and push button 14 Arduino based Load Control System with Relay and push button 15 Life Cycle Testing of Electrical Loads by Down Counter using 8051 Controller with Relay and LCD display 16 Arduino based Life Cycle Testing of Electrical Loads by Down Counter with SCR and LCD display 17 Speed Checker To Detect Rash Driving On Highways by 8051 18 Arduino based Speed Checker To Detect Rash Driving On Highways 19 Fire Detection Relay Control with LCD display using 8051 Controller 20 Arduino based Fire Detection Relay Control with LCD display 21 Temperature Detection Relay Control with LCD display using 8051 Controller 22 Arduino based Temperature Detection Relay Control with LCD display 23 Light Detection Relay Control with LCD display using 8051 Controller 24 Arduino based Light Detection Relay Control with LCD display 25 Moisture Detection Relay Control with LCD display using 8051 Controller 26 Arduino based Moisture Detection Relay Control with LCD display 27 Burglar intimation system by 8051 Controller 28 Arduino based Burglar intimation system 29 Auto Irrigation System by 8051 Controller 30 Arduino based Auto Irrigation System</p>
4	<p>Advanced Robotics Hardware Design, Prototyping and Innovation Development with real-time examples and practicals interdisciplinary program. Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses</p>	<p>1.Line Following Robot without microcontroller 2.Line Following Robot using 8051 Controller 3.Arduino based Line Following Robot 4.Wall Following Robot using 8051 Controller 5.Arduino based Wall Following Robot 6.Obstacle Avoidance Robot using 8051 Controller 7.Arduino based Obstacle Avoidance Robot 8.Accident Avoidance in Vehicle using 8051 Controller 9.Arduino based Accident Avoidance in Vehicle 10.Sun Tracking Solar Panel using 8051 Controller 11.Sun Tracking Solar Panel using 8051 Controller WITH LDR 12.Sun Tracking Solar Panel using 8051 Controller With RTC 13.Sun Tracking Solar Panel using Arduino with stepper motor 14.Sun Tracking Solar Panel using Arduino with stepper motor ldr 15.Sun Tracking Solar Panel using Arduino with stepper motor RTC 16.Smoke and Lpg Gas Detection Robot with Wireless Control using 8051 Controller 17.Arduino based Smoke and Lpg Gas Detection Robot with Wireless Control 18.RF based Smart Floor Cleaner Robot using 8051 Controller 19.Arduino and RF based Smart Floor Cleaner Robot 20.Bluetooth based Smart Floor Cleaner Robot using 8051 Controller 21.Arduino and Bluetooth based Smart Floor Cleaner Robot 22.RF based Metal Detector Robotic Vehicle using 8051 Controller 23.Arduino and RF based Metal Detector Robotic Vehicle 24.Bluetooth based Metal Detector Robotic Vehicle using 8051 Controller</p>

		<p>25.Arduino and Bluetooth based Metal Detector Robotic Vehicle</p> <p>26.DTMF based Metal Detector Robotic Vehicle using 8051 Controller</p> <p>27.Arduino and DTMF based Metal Detector Robotic Vehicle</p> <p>28.RF based War Field Spying Robot with Night Vision Wireless Camera using 8051</p> <p>29.Arduino and RF based War Field Spying Robot with Night Vision Wireless Camera</p> <p>30.Bluetooth based War Field Spying Robot with Night Vision Wireless Camera using 8051 Controller</p> <p>31.Arduino and Bluetooth based War Field Spying Robot with Night Vision Wireless Camera</p> <p>32.DTMF based War Field Spying Robot with Night Vision Wireless Camera using 8051 Controller</p> <p>33.Arduino and DTMF based War Field Spying Robot with Night Vision Wireless Camera</p> <p>34.RF based Remote Controlled Robot Operation using 8051 Controller</p> <p>35.Arduino and RF based Remote Controlled Robot Operation</p> <p>36.Bluetooth based Remote Controlled Robot Operation using 8051 Controller</p> <p>37.Arduino and Bluetooth based Remote Controlled Robot Operation</p> <p>38.DTMF based Remote Controlled Robot Operation using 8051 Controller</p> <p>39.Arduino and DTMF based Remote Controlled Robot Operation</p> <p>40.PC based Remote Controlled Robot Operation using 8051 Controller</p> <p>41.Arduino and PC based Remote Controlled Robot Operation</p> <p>42.RF based Robotic Arm Control using 8051 Controller</p> <p>43.Arduino and RF based Robotic Arm Control</p> <p>44.Bluetooth based Robotic Arm Control using 8051 Controller</p> <p>45.Arduino and Bluetooth based Robotic Arm Control</p> <p>46.DTMF based Robotic Arm Control using 8051 Controller</p> <p>47.Arduino and DTMF based Robotic Arm Control</p> <p>48.PC based Robotic Arm Control using 8051 Controller</p> <p>49.Arduino and PC based Robotic Arm Control</p> <p>50.Auto Metro Train to Shuttle Between Stations using 8051 Controller</p> <p>51.Arduino based Auto Metro Train to Shuttle Between Stations</p> <p>52.RF based Fire Fighting Robotic Vehicle using 8051 Controller</p> <p>53.Arduino and RF based Fire Fighting Robotic Vehicle</p> <p>54.Bluetooth based Fire Fighting Robotic Vehicle using 8051 Controller</p> <p>55.Arduino and Bluetooth based Fire Fighting Robotic Vehicle</p> <p>56.DTMF based Fire Fighting Robotic Vehicle using 8051 Controller</p> <p>57.Arduino AND DTMF based Fire Fighting Robotic Vehicle</p> <p>58.RF based Bomb Displacing(Pick & Place) Robot with Tension Controlled Soft Catching Arm using 8051 Controller</p> <p>59.Arduino and RF based Bomb Displacing(Pick & Place) Robot with Tension Controlled Soft Catching Arm</p> <p>60.Bluetooth based Bomb Displacing(Pick & Place) Robot with Tension Controlled Soft Catching Arm using 8051 Controller</p> <p>61.Arduino and Bluetooth based Bomb Displacing(Pick & Place) Robot with Tension Controlled Soft Catching Arm</p> <p>62.DTMF based Bomb Displacing(Pick & Place) Robot with Tension Controlled Soft Catching Arm using 8051 Controller</p> <p>63.Arduino and DTMF based Bomb Displacing(Pick & Place) Robot with Tension Controlled Soft Catching Arm</p>
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5	Advanced Internet of Things (IoT) Hardware Design, Prototyping and Innovation Development with real-time examples and practicals interdisciplinary program. Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses	<p>1 PIR Sensor using 8051 Controller</p> <p>2 Arduino based PIR Sensor</p> <p>3 PIR Sensor without microcontroller</p> <p>4 Doppler Sensor using 8051 Controller</p> <p>5 Arduino based Doppler Sensor</p> <p>6 Doppler Sensor without microcontroller</p> <p>7 Ultrasonic Sensor using 8051 Controller</p> <p>8 Arduino based Ultrasonic Sensor</p> <p>9 Ultrasonic Sensor Without Microcontroller</p> <p>10 Distance Measurement by Ultrasonic Sensor using 8051 Controller</p> <p>11 Arduino based Distance Measurement by Ultrasonic Sensor</p> <p>12 Stick for Blind People using Ultrasonic using 8051 Controller</p> <p>13 Arduino based Stick for Blind People using Ultrasonic</p> <p>14 Stick for Blind People Without Microcontroller</p> <p>15 Ultrasonic based Garage Door Opener using 8051 Controller</p> <p>16 Arduino based Ultrasonic based Garage Door Opener</p> <p>17 Object Detection by Ultrasonic Means using 8051 Controller with Relay</p> <p>18 Arduino based Object Detection by Ultrasonic Means with Relay</p> <p>19 Object Detection by Ultrasonic Means using 8051 Controller with SCR</p> <p>20 Arduino based Object Detection by Ultrasonic Means with SCR</p> <p>21 Object Detection by Ultrasonic Means using 8051 Controller with TRIAC</p> <p>22 Arduino based Object Detection by Ultrasonic Means with TRIAC</p> <p>23 Contactless Liquid Level Controller using 8051 Controller with Relay</p> <p>24 Arduino based Contactless Liquid Level Controller with Relay</p> <p>25 Contactless Liquid Level Controller using 8051 Controller with SCR</p>

		26	Arduino based Contactless Liquid Level Controller with SCR
		27	Contactless Liquid Level Controller using 8051 Controller with TRIAC
		28	Arduino based Contactless Liquid Level Controller with TRIAC
		29	Reverse Parking Sensor Circuit using 8051 Controller
		30	Arduino based Reverse Parking Sensor Circuit
		31	Automatic Dusk to Dawn (Evening On to Morning Off) using 8051 Controller with Relay
		32	Arduino based Automatic Dusk to Dawn (Evening On to Morning Off) with Relay
		33	Automatic Dusk to Dawn (Evening On to Morning Off) without microcontroller with Relay
		34	Automatic Dusk to Dawn (Evening On to Morning Off) using 8051 Controller with SCR
		35	Arduino based Automatic Dusk to Dawn (Evening On to Morning Off) with SCR
		36	Automatic Dusk to Dawn (Evening On to Morning Off) without microcontroller with SCR
		37	Automatic Dusk to Dawn (Evening On to Morning Off) using 8051 Controller with TRIAC
		38	Arduino based Automatic Dusk to Dawn (Evening On to Morning Off) with TRIAC
		39	Automatic Dusk to Dawn (Evening On to Morning Off) without microcontroller with TRIAC
		40	Auto Night Lamp using High Power LED without microcontroller
		41	Auto Night Lamp using High Power LED using 8051 Controller
		42	Arduino based Auto Night Lamp using High Power LED
		43	Auto Outdoor Light without microcontroller
		44	Auto Outdoor Light using 8051 Controller
		45	Arduino based Auto Outdoor Light
		46	Auto Window Closing Motor without microcontroller
		47	Auto Window Closing Motor using 8051 Controller
		48	Arduino based Auto Window Closing Motor
		49	Electronic Eye Controlled Security System without microcontroller with Relay
		50	Electronic Eye Controlled Security System without microcontroller with SCR
		51	Electronic Eye Controlled Security System without microcontroller with TRIAC
		52	Electronic Eye Controlled Security System using 8051 Controller with Relay
		53	Arduino based Electronic Eye Controlled Security System with Relay
		54	Electronic Eye Controlled Security System using 8051 Controller with SCR
		55	Arduino based Electronic Eye Controlled Security System with SCR
		56	Electronic Eye Controlled Security System using 8051 Controller with TRIAC
		57	Arduino based Electronic Eye Controlled Security System with TRIAC
		58	Shadow Alarm using LDR without microcontroller

		59 Shadow Alarm using LDR using 8051 Controller
		60 Arduino based Shadow Alarm using LDR
		61 Morning Wake up without microcontroller
		62 Morning Wake up using 8051 Controller
		63 Arduino based Morning Wake up
		64 Analog Gas Sensor with Bar Graph using 8051 Controller
		65 Arduino based Analog Gas Sensor with Bar Graph
		66 Flame Intensity Detector using Bar Graph using 8051 Controller
		67 Arduino based Flame Intensity Detector using Bar Graph
		68 Moisture Intensity Detector using Bar Graph using 8051 Controller
		69 Arduino based Moisture Intensity Detector using Bar Graph
		70 Temperature Intensity Detector using Bar Graph using 8051 Controller
		71 Arduino based Temperature Intensity Detector using Bar Graph
		72 Automatic Exhaust Fan Control Coupled to Gas Leak Detection without microcontroller
		73 Automatic Exhaust Fan Control Coupled to Gas Leak Detection using 8051 Controller
		74 Arduino based Automatic Exhaust Fan Control Coupled to Gas Leak Detection
		75 Smart Kitchen without microcontroller
		76 Smart Kitchen using 8051 microcontroller
		77 Arduino based Smart Kitchen
		78 Alcohol Sensing Display with Alarm Project without microcontroller
		79 Alcohol Sensing Display with Alarm Project using 8051 Controller
		80 Arduino based Alcohol Sensing Display with Alarm Project
		81 Flame Sensor using 8051 Controller with Relay
		82 Arduino based Flame Sensor with Relay
		83 Flame sensor without microcontroller with Relay
		84 Flame Sensor using 8051 Controller with SCR
		85 Arduino based Flame Sensor with SCR
		86 Flame sensor without microcontroller with SCR
		87 Flame sensor without microcontroller with TRIAC
		88 Flame Sensor using 8051 Controller with TRIAC
		89 Arduino based Flame Sensor with TRIAC
		90 Fire Detection with Alarm Sound without microcontroller
		91 Fire Detection with Alarm Sound using 8051 Controller
		92 Arduino based Fire Detection with Alarm Sound
		93 AIR Pollution Meter using 8051
		94 Arduino based AIR Pollution Meter
		95 AIR Pollution Meter without microcontroller
		96 Weather Station using 8051 Controller
		97 Arduino based Weather Station
		98 Automatic Irrigation System on Sensing Soil Moisture Content using 8051 Controller with Relay
		99 Arduino based Automatic Irrigation System on Sensing Soil Moisture Content with Relay
		100 Automatic Irrigation System on Sensing Soil Moisture Content using 8051 Controller with SCR
		101 Arduino based Automatic Irrigation System on Sensing Soil Moisture Content with SCR

		<p>102 Automatic Irrigation System on Sensing Soil Moisture Content using 8051 Controller with TRIAC</p> <p>103 Arduino based Automatic Irrigation System on Sensing Soil Moisture Content with TRIAC</p> <p>104 Solar based Automatic Irrigation System on Sensing Soil Moisture Content using 8051 Controller with Relay</p> <p>105 Arduino and Solar based Automatic Irrigation System on Sensing Soil Moisture Content with Relay</p> <p>106 Solar based Automatic Irrigation System on Sensing Soil Moisture Content without microcontroller with Relay</p> <p>107 Automatic Irrigation System on Sensing Soil Moisture Content without microcontroller with Relay</p> <p>108 Automatic Irrigation System on Sensing Soil Moisture Content without microcontroller with SCR</p> <p>109 Automatic Irrigation System on Sensing Soil Moisture Content without microcontroller with TRIAC</p> <p>110 Moisture Sensor using 8051 Controller</p> <p>111 Arduino based Moisture Sensor</p> <p>112 Moisture Sensor without microcontroller</p> <p>113 Rain Alarm Circuit using 8051 Controller</p> <p>114 Arduino based Rain Alarm Circuit</p> <p>115 Rain Alarm Circuit without microcontroller</p> <p>116 Vibration Sensor using 8051 Controller</p> <p>117 Arduino based Vibration Sensor</p> <p>118 Vibration Sensor without microcontroller</p> <p>119 Vibration Alert System for the Deaf using 8051 Controller</p> <p>120 Arduino based Vibration Alert System for the Deaf</p> <p>121 Vibration Alert System for the Deaf without microcontroller</p> <p>122 Earthquake Alert using 8051 Controller</p> <p>123 Arduino based Earthquake Alert</p> <p>124 Earthquake Alert without microcontroller</p> <p>125 Sound Sensor using 8051 controller</p> <p>126 Arduino based Sound Sensor</p> <p>127 Sound Sensor without controller</p> <p>128 Study Room Monitor using 8051 Controller</p> <p>129 Arduino based Study Room Monitor</p> <p>130 Study Room Monitor without microcontroller</p> <p>131 Speech Following LED Necklace without microcontroller</p> <p>132 Rhythm Following Flashing Lights without microcontroller</p> <p>133 Reed Sensor using 8051 Controller</p> <p>134 Arduino based Reed Sensor</p> <p>135 Reed Sensor without microcontroller</p> <p>136 Tilt Sensor using 8051 Controller</p> <p>137 Arduino based Tilt Sensor</p> <p>138 Tilt Sensor without microcontroller</p>
6	Smart Cities Automation Hardware Design, Prototyping and Innovation Development with real-time examples and Practicals	<p>1 Optimum Energy Management System using 8051 Controller with Relay and 7 segment display</p> <p>2 Arduino based Optimum Energy Management System with Relay and 7 segment display</p> <p>3 Optimum Energy Management System using 8051 Controller with SCR and 7 segment display</p>

interdisciplinary program. Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses	4 Arduino based Optimum Energy Management System with SCR and 7 segment display 5 Optimum Energy Management System using 8051 Controller with TRIAC and 7 segment display 6 Arduino based Optimum Energy Management System with TRIAC and 7 segment display 7 Optimum Energy Management System using 8051 Controller with Relay and LCD display 8 Arduino based Optimum Energy Management System with Relay and LCD display 9 Optimum Energy Management System using 8051 Controller with SCR and LCD display 10 Arduino based Optimum Energy Management System with SCR and LCD display 11 Optimum Energy Management System using 8051 Controller with TRIAC and LCD display 12 Arduino based Optimum Energy Management System with TRIAC and LCD display 13 Object/ Visitor Counter Display using 8051 Controller with 7 segment display 14 Arduino based Object/ Visitor Counter Display with 7 segment display 15 Object/ Visitor Counter Display using 8051 Controller with LCD display 16 Arduino based Object/ Visitor Counter Display with LCD display 17 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication using 8051 Controller with Relay and 7 segment display 18 Arduino based Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication with Relay and 7 segment display 19 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication using 8051 Controller with SCR and 7 segment display 20 Arduino based Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indicationwith SCR and 7 segment display 21 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication using 8051 Controller with TRIAC and 7 segment display 22 Arduino based Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indicationwith TRIAC and 7 segment display 23 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication using 8051 Controller with Relay and LCD display 24 Arduino based Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication with Relay and LCD display 25 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication using 8051 Controller with SCR and LCD display 26 Arduino based Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication with SCR and LCD display 27 Overload Alarm Warning System in a Passenger Lift with Number of Occupants Indication using 8051 Controller with TRIAC and LCD display 28 Arduino based Overload Alarm Warning System in a Passe 29 Auto Power Supply Control from 4 Different Sources: Solar, Mains,
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		78	IR Obstacle based LED Light using 8051 Controller
		79	Arduino based IR Obstacle based LED Light
		80	IR Obstacle based LED Light without microcontroller
		81	Electronic Letter Box Project Circuit using 8051 Controller
		82	Arduino based Electronic Letter Box Project Circuit
		83	Electronic Letter Box Project Circuit without microcontroller
		84	Smart Fan in Office using 8051 Controller
		85	Arduino based Smart Fan in Office
		86	Smart Fan in Office without microcontroller
		87	Panic Alarm with 8051 controller
		88	Arduino based Panic Alarm
		89	RF based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with Relay
		90	Arduino and RF based Bidirectional Rotation of an Induction Motor with a Remote Control Device with Relay
		91	RF based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with SCR
		92	Arduino and RF based Bidirectional Rotation of an Induction Motor with a Remote Control Device with SCR
		93	RF based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with TRIAC
		94	Arduino and RF based Bidirectional Rotation of an Induction Motor with a Remote Control Device with TRIAC
		95	Bluetooth based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with Relay
		96	Arduino and Bluetooth based Bidirectional Rotation of an Induction Motor with a Remote Control Device with Relay
		97	Bluetooth based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with SCR
		98	Arduino and Bluetooth based Bidirectional Rotation of an Induction Motor with a Remote Control Device with SCR
		99	Bluetooth based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with TRIAC
		100	Arduino and Bluetooth based Bidirectional Rotation of an Induction Motor with a Remote Control Device with TRIAC
		101	DTMF based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with Relay
		102	Arduino and DTMF based Bidirectional Rotation of an Induction Motor with a Remote Control Device with Relay
		103	DTMF based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with SCR
		104	Arduino and DTMF based Bidirectional Rotation of an Induction Motor with a Remote Control Device with SCR
		105	DTMF based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with TRIAC
		106	Arduino and DTMF based Bidirectional Rotation of an Induction Motor with a Remote Control Device with TRIAC
		107	PC based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with Relay
		108	Arduino and PC based Bidirectional Rotation of an Induction Motor

		with a Remote Control Device with Relay
	109	PC based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with SCR
	110	Arduino and PC based Bidirectional Rotation of an Induction Motor with a Remote Control Device with SCR
	111	PC based Bidirectional Rotation of an Induction Motor with a Remote Control Device using 8051 Controller with TRIAC
	112	Arduino and PC based Bidirectional Rotation of an Induction Motor with a Remote Control Device with TRIAC
	113	Load Control System using 8051 Controller with Relay and push button
	114	Arduino based Load Control System with Relay and push button
	115	Load Control System using 8051 Controller with SCR and push button
	116	Arduino and Bluetooth based Load Control System with SCR and push button
	117	Load Control System using 8051 Controller with TRIAC and push button
	118	Arduino based Load Control System with TRIAC and push button
	119	Load Control System using 8051 Controller with Relay and keypad
	120	Arduino based Load Control System with Relay and keypad
	121	Load Control System using 8051 Controller with SCR and Keypad
	122	Arduino and Bluetooth based Load Control System with SCR and Keypad
	123	Load Control System using 8051 Controller with TRIAC and Keypad
	124	Arduino based Load Control System with TRIAC and keypad
	125	PC based Load Control System using 8051 Controller with Relay
	126	Arduino and PC based Load Control System with Relay
	127	PC based Load Control System using 8051 Controller with SCR
	128	Arduino and PC based Load Control System with SCR
	129	PC based Load Control System using 8051 Controller with TRIAC
	130	Arduino and PC based Load Control System with TRIAC
	131	RF based Load Control System using 8051 Controller with Relay
	132	Arduino and RF based Load Control System with Relay
	133	RF based Load Control System using 8051 Controller with SCR
	134	Arduino and RF based Load Control System with SCR
	135	RF based Load Control System using 8051 Controller with TRIAC
	136	Arduino and RF based Load Control System with TRIAC
	137	DTMF based Load Control System using 8051 Controller with Relay
	138	Arduino and DTMF based Load Control System with Relay
	139	DTMF based Load Control System using 8051 Controller with SCR
	140	Arduino and DTMF based Load Control System with SCR
	141	DTMF based Load Control System using 8051 Controller with TRIAC
	142	Arduino and DTMF based Load Control System with TRIAC
	143	Bluetooth based Load Control System using 8051 Controller with Relay
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		146	Arduino and Bluetooth based Load Control System with SCR
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		149	IR Obstacle Detection to Actuate Load without microcontroller with Relay
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		152	IR Obstacle Detection to Actuate Load using 8051 Controller with Relay
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		158	IR Obstacle based LED Light using 8051 Controller
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		169	Density based Traffic Signal System using 8051 Controller
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		177	Tank Water Level Controller using 8051 Controller with Relay
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		179	Tank Water Level Controller using 8051 Controller with SCR
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		181	Tank Water Level Controller using 8051 Controller with TRIAC
		182	Arduino based Tank Water Level Controller with TRIAC
		183	Tank Water Level Controller without microcontroller with Relay
		184	Speed Checker to Detect Rash Driving on Highways using 8051 Controller with Relay
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7	<p>Renewable energy Hardware Design, Prototyping and Innovation Development with real-time examples and practicals interdisciplinary program. Powered by Virtual Lab + Complementary (Industry 4.0 + Innovation Life Cycle) Courses</p>	<p>1 Highway Lighting System with Auto Turn Off on Day Time without Microcontroller</p> <p>2 Highway Lighting System with Auto Turn Off on Day Time using 8051 Controller</p> <p>3 Arduino based Highway Lighting System with Auto Turn Off on Day Time</p> <p>4 Solar based Highway Lighting System with Auto Turn Off on Day Time without Microcontroller</p> <p>5 Solar based Highway Lighting System with Auto Turn Off on Day Time using 8051 Controller</p> <p>6 Arduino and Solar based Highway Lighting System with Auto Turn Off on Day Time</p> <p>7 LED Street Light with Intensity Control without microcontroller</p> <p>8 LED Street Light with Intensity Control using 8051 Controller</p>

		<p>9 Arduino based LED Street Light with Intensity Control</p> <p>10 LED Street Light with Intensity Control using 8051 Controller with mini Oscilloscope</p> <p>11 Arduino based LED Street Light with Intensity Control with mini Oscilloscope</p> <p>12 Solar based LED Street Light with Intensity Control using 8051 Controller</p> <p>13 Arduino and Solar based LED Street Light with Intensity Control</p> <p>14 Solar based LED Street Light with Intensity Control without microcontroller</p> <p>15 Street Light That Glows on Detecting Vehicle Movement using 8051 Controller</p> <p>16 Arduino based Street Light That Glows on Detecting Vehicle Movement</p> <p>17 Solar based Street Light That Glows on Detecting Vehicle Movement using 8051 Controller</p> <p>18 Arduino and Solar based Street Light That Glows on Detecting Vehicle Movement</p> <p>19 Street Light That Glows on Detecting Vehicle Movement Day Off Night on using 8051 Controller</p> <p>20 Arduino based Street Light That Glows on Detecting Vehicle Movement Day Off Night on</p> <p>21 Solar based Street Light That Glows on Detecting Vehicle Movement Day Off Night on using 8051 Controller</p> <p>22 Arduino and Solar based Street Light That Glows on Detecting Vehicle Movement Day Off Night on</p> <p>23 Programmable Decoration Light using 8051 Controller</p> <p>24 Arduino based Programmable Decoration Light</p> <p>25 Beacon Flasher using 8051 Controller</p> <p>26 Arduino based Beacon Flasher</p> <p>27 Industrial Drafting Fan in Stepped Speed Control using BLDC Motor using 8051 Controller</p> <p>29 Arduino based Industrial Drafting Fan in Stepped Speed Control using BLDC Motor</p> <p>30 Ambulance Light using 8051 Controller</p> <p>31 Arduino based Ambulance Light</p> <p>32 Discotheque Light Stroboscopic Flasher using 8051 Controller</p> <p>33 Arduino based Discotheque Light Stroboscopic Flasher</p> <p>34 Automobile Head Light Lamp Intensity Dimmer to Control Glare without microcontroller</p> <p>35 Automobile Head Light Lamp Intensity Dimmer to Control Glare using 8051 Controller</p>
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