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Session No	Course Contents	
	Zoom & MakeCode: Your First Steps	
	Kickstart your coding journey with an introduction to MakeCode and	
	Micro:bit! Get familiar with the platform, explore the basics of block	
Session 1	coding, and start your first exciting project.	
	Creative LED Patterns with MakeCode	
	Discover the magic of coding LEDs with MakeCode! Learn how to	
Session 2	create LED patterns while building foundational programming skills.	
	Press and Play	
	Make your Micro:bit interactive! Learn how to use button inputs to	
Session 3	control actions and bring your Micro:bit to life.	
	Crafting Fun Sounds with Micro:bit	
	Explore the world of sound! Use coding blocks to create playful sounds	
Session 4	and melodies, turning your Micro:bit into a mini music machine	
	Rock, Paper, Scissors: Coding Logic	
	Learn how to use logic blocks to code a Rock, Paper, Scissors game	
Session 5	that you can play with friends.	
	Coin Toss	
	Learn about randomness and decision-making in programming while	
Session 6	building a digital coin toss.	
	Dice Game	
	Turn your Micro:bit into a digital dice roller! Discover how to generate	
Session 7	random numbers and use them in your games.	
	Display and Play!	
	Master the Micro:bit LED display by designing creative visuals that	
Session 8	respond to different inputs.	

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	Show and Tell Mock
	Practice presenting your projects with confidence! Share what you've
Session 9	learned and showcase your creativity.
	Show n Tell Event 1
	It's time to shine! Present your coding creations to friends and family
Session 10	and celebrate your journey in the world of coding.
	Unboxing Kit
	Get hands-on with your Micro:bit kit! Explore its components and learn how
Session 11	each piece works to create exciting projects.
	The Mystery of the Night Lights
	Solve a glowing mystery using light sensors and coding! Micro:bit will
Session 12	respond to changes inlevel of light.
	The Mystery of the Night Lights-Part 2
	Continue your night light adventure by adding more interactivity and
Session 13	improving your project with smart coding techniques.
	Leo's Adventure: Learning AND Conditions
	Learn how to use AND logic to control your Micro:bit's responses. Create
Session 14	a code for Leo's adventure with decision-making.
	Leo's Adventure: Learning OR Conditions
	Expand your logic skills by using OR conditions to enhance interactivity
Session 15	in your coding project.
	Glow and Learn: Controlling LEDs (25 lights)
	Take LED coding to the next level! Learn to control LEDs (25 lights) of
Session 16	micro:bit at once using blocks of Makecode platform.T
	Micro:bit LED Animation: Fun with Logic and Music
	Combine logic and music to animate your Micro:bit! Create light
Session 17	patterns synchronized with sound effects

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	Path plotter
	Turn your Micro:bit into a digital path drawer! Learn how to track
Session 18	movements and create simple patterns.
	Code Light Trails
	Bring light trails to life with code! Experiment with creative LED effects
Session 19	that follow patterns and sequences.
	Loops-Makecode
	Unlock the power of loops! Learn how to repeat actions in your code to
Session 20	create efficient and exciting project.
	Show and Tell Event 2
	Show off your coding skills! Present your creative projects and explain
Session 21	how they work.
	Code, Revise, Repeat
	Review everything you've learned so far! Strengthen your coding
Session 22	concepts and prepare for upcoming challenges.
	Meet the MLB Board!
	Explore new hardware! Get introduced to the MLB board and discover
Session 23	how it works with MakeCode.
	Mix, Blink and Learn
	Experiment with different Micro:bit functions! Combine sensors, lights,
Session 24	and buttons to build fun, interactive projects.
	On or Off? Let's Switch!
	Discover how slide switches work! Learn how to control your Micro:bit
Session 25	with simple switches.
	Slide Switches as INPUT
	Understand how ON/OFF states trigger actions in your code and create
Session 26	interactive projects that respond to switch positions on micro:bit

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	Using Slide Switches with OR
	Take your projects further with OR conditions, making your Micro:bit
Session 27	respond to multiple switch inputs.
	Introduction to Potentiometer
	Discover how a potentiometer works and learn to read its values using
	your Micro:bit. Use it to control LEDs, sounds, or animations based on
Session 28	how you turn the knob.
	Introduction to Potentiometer-2
	Learn how to read analog values, map them to different ranges, and
	use them to control brightness, display bar graphs, and send data
Session 29	through the serial monitor.
	Exploring Light-Dependent Resistor
	Continue exploring the exciting world of hardware and coding by
Session 30	adding more sensors to your projects.
	Show and Tell Event-3
	Share your latest coding creations and inspire your peers with your
Session 31	interactive projects.
	Servo Integration with MLB Board Learn how to connect and control a
Session 32	servo motor using the MLB board and MakeCode.
	Revision Session
	Revisit key concepts from previous sessions. Strengthen
	understanding through hands-on practice, clear explanations, and
Session 33	Q&A to boost confidence for future projects
	PacRun Code
	your own Pacman-style game! Bring characters to life using
Session 34	MakeCode blocks.
	PacRun(Part-2)
	Complete your Pacman game by adding interactive features and
Session 35	refining gameplay mechanics.

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Session 36	Snap the dot Create a game using moving LED dots on the Micro:bit display. Learn how to detect sprite positions, use buttons to score points, play sounds, and end the game if timing is off.
Session 37	Show and Tell Mock Practice explaining your projects, walk through your code, and receive helpful feedback. Build presentation skills and prepare for the final Show and Tell event.
Session 38	Mole Mania: Whack and Win! Code your own reaction game where moles randomly appear on the left or right side of the screen. Use buttons A and B to "whack" the correct mole in time.
Session 39	Show n Tell Event 4 Showcase your best project from the course! Share your journey and coding achievements.
Session 40	Welcome to the Game- Energy Guardians Begin the Energy Guardians adventure! Unbox the new kit, explore each component, and understand how the parts will power upcoming projects.
Session 41	Connecting multiple components Explore how to control components (Soil moisture sensor, micro:bit etc.) using the Micro:bit! Learn to send digital signals through pins, make devices blink with timed pauses, and understand the basics of power control.
Session 42	Sensor Heroes: Save the town! Use sensors to read real-time data and make smart decisions with code. Build the foundation for responsive, real-world projects that can monitor and protect a virtual town!

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/	Prioritizing Plant health
	Help plants thrive with the power of code! Use a moisture sensor to
	monitor soil conditions and give visual feedback through icons,
Session 43	messages, and LED graphs.
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	Planting the seeds
	Simulate planting crops by setting ideal moisture levels for each plant.
	Use buttons to check real-time soil readings and get feedback on
Session 44	whether more water is needed.
	Traffic Light Pole Implementation
	Learn how to display different moisture levels that represented red,
	yellow, and green lights. Use buttons to change light states manually
Session 45	and understand how coding logic can manage real-life traffic flow.
	Integrating traffic light pole and soil moisture sensor
	Learn how to integrate a soil moisture sensor with a traffic light-style LED
	system. Use moisture readings to trigger red, yellow, or green lights,
Session 46	giving visual feedback on soil health.
	Integrating Light Sensing
	Use the Micro:bit's built-in light sensor to track brightness and visualize it
	with bar graphs. Then take it further—combine light and moisture
Session 47	readings to trigger actions like audio playback and data logging.
	Get Inspired: Energy Guardians' Journey
	Combine soil moisture and light sensing to create a smart feedback
Session 48	system that responds with lights, sounds, and messages.
	The Final Test
	The Energy Guardians will review and test all sensors—light, moisture,
	and more—to ensure they're working perfectly. Then, hand over the tools
	to the farmers of MoonGarden to monitor plant health and keep the city
Session 49	green.

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Session 50	Smart Environmental Feedback: Light and Sound Integration Review and refine key concepts with a focus on using light and sound to give smart environmental feedback.
Session 51	Show and tell-Mock Step into the spotlight for a practice run! Present projects, explain how sensors and code work together, and demonstrate real-time functionality.
Session 52	Show and Tell Event-5 Celebrate innovation and creativity! Present final projects to peers, mentors, and guests. Demonstrate how coding, sensors, and real-world thinking came together to solve problems and monitor the environment.

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