

# Madanapalle Institute of Technology & Science (An Autonomous Institution)

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#### A Report

on

#### One Week Community Outreach Program for ATL Schools

## "Innovators of Tomorrow: A Hands-On STEM and Creativity Program for Young Minds"

Submitted by: Dr. K. Arul Kumar, IIC Convener

Mrs. Revathy Gopinath, Assistant Professor, EEE

**Organising Department:** Electrical & Electronics Engineering Department

**Date:** 26.08.2024 to 31.08.2024

#### **Faculty Coordinators:**

- 1. Dr. A.V. Pavan Kumar, HOD/EEE
- 2. Dr. K. Arul Kumar, IIC Convener
- 3. Mrs. Revathy Gopinath, Assistant Professor, EEE
- 4. Mr. D. Saravanan, Assistant Professor, EEE
- 5. Mr. Jagadesh, PGT (Physics), JNV, Valasapalle

#### **Students Coordinators:**

- 1. T. Chaitanya Lakshmi 22691A0205 3RD Year EEE
- 2. S. Janardhan Yadav 22691A0214 3rd Year EEE
- 3. N. Nihanth Kumar 22691A0225 3rd Year EEE
- 4. S. Saniya Meerza 22691A0238 -3rd Year EEE
- 5. T.Shravya 22691A0241 3RD Year EEE

#### **Total Participants:** 68

On 27.08.2024, By 10.30 am, 08 members of Electrical & Electronics Engineering department including students, faculty have reached the school campus of Jawahar Navodaya Vidyalaya, Valasapalle. First, we have interacted with School Principal Mr. Govind Rao and Mr. Jagadesh, PGT

(Physics) in the principal room about the schedule and purpose of the visit. He also insisted that his students will definitely get motivated by such STEM activity.

Day 01 - Inaugural Session

Day 02 - Hands on Workshop - Basics of Arduino and program code

Day 03 - Hands on Workshop - Basics on Breadboard

Day 04 - Hands on Workshop - Breadboard connections

Day 05 - Hands on Workshop - Integrating Breadboard Components and Arduino

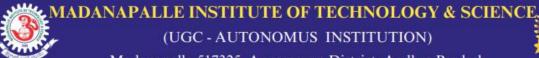
Day 06 - Hands on Workshop - Blinking of LED and Motor Control, Ultrasonic sensor, Solar PV panel & Closing remarks and feedback session.

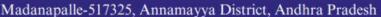
#### Hands on Workshop:

By 11.00 am students have assembled in the auditorium the activity includes, Introduction to Arduino – Basics of Bread Board, connection, LED Blinking, Motor control, LED Light control, Solar PV panel and its basics.

The project session has been designed to be interactive and stimulating, offering students the opportunity to work with various tools and technologies available in the ATL. Our team of experienced professionals have facilitated the session, ensuring that all activities are conducted safely and effectively, adhering to the school's guidelines and the Ministry of Education's standards.

#### Poster:





















## Department of Electrical & Electronics Engineering

# In association with IIC, MITS Organizes

Community Outreach Program for ATL Schools
"Innovators of Tomorrow: A Hands-On STEM and
Creativity Program for Young Minds"

Date: 26.08.2024 to 31.08.2024

Venue: 1. JAWAHAR NAVODAYA VIDYALAYA, Valasapalle

2. APSWR SCHOOL AND JR COLLEGE FOR GIRLS, BURAKAYALAKOTA

3. APSWR SCHOOL FOR GIRLS (PM-Shri School), Valmikipuram

Chief Patron

Patron

Chief Convener

Coordinators

Dr. N. Vijaya Bhaskar Choudary
Secretary & Correspondent

Mrs. Keerthi Nadella Executive Director Dr. C. Yuvaraj Principal Dr. A.V. Pavan Kumar Dr. K. Arul Kumar Mrs. Revathi Gopinath

www.mits.ac.in

## Gallery:





As a Convener, I thank the HOD, Coordinators, faculty members, students for extending their support. Finally, I thank management for giving this opportunity to conduct the event successfully with all logistics support.

#### Outcome:

- > Students have proactively participated the session in handling Arduino boards and control unit.
- > Got Idea/ Innovation in STEM Activity.
- > Students participating in hackathons, school innovation design, contest and develop prototype models.

#### **Sample Feedback**

### Madanapalle Institute of Technology & Science Madanapalle Feedback Form Title: Event Titled "Innovators of Tomorrow: A Hands-On STEM and Creativity Program for Young Minds" to the Atal Tinkering Lab (ATL) students 1. How would you rate your overall experience at the event? a) Excellent b) Good c) Fair d) Poor 2. What did you enjoy the most about the program? (Please select all that apply) a) Hands-on activities -by Interactive sessions c) Guest speakers. d) Group work 3. Did the hands on activities help you understand the concepts better? a) Yes, significantly b) Yes, somewhat c) No. not really d) Not at all 4. Were the instructions and guidance provided during the activities clear and helpful? b) Somewhat clear and helpful d) Not very clear or helpful e) Not at all clear or helpful 5. What aspect of the program did you find least enjoyable or challenging? (Please select all that apply) a) Duration of sessions b) Difficulty level of activities c) Organization of the event dy Equipment and materials e) Other (please specify): Name M Jeevan Sai Class: X-B

## **Sample Attendance Sheet**

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Outreach programme ATL School 27/08/24				
Attendance.				
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04-	<del>29</del> 29	G. Manogna Sai	X- A/sec	G. Managua Sai
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18	32	Jr. dai drikan	<b>X</b> -B	Sai Sriker K