



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

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Annamayya Dist. Madanapalle 517 325



**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

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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
 - b) 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?
 - a) Very clear and helpful
 - b) Somewhat clear and helpful
 - c) Neutral
 - 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
 - d) Equipment and materials
 - e) Other (please specify): _____

Name: M Jeevan Sai
Class: X-B

Sample Attendance Sheet

Outreach programme ATL School Jawahar navodaya vidyalaya, valasipalle				27/08/24
S.No	Roll no	Student name	class	Attendance sign.
01	935	Shiva Raj	IX-B	Shiva
02	930	Pijush Anand	IX B	Pijush
03	933	Rajeev Kumar	IX 'B'	Rajeev
04	934	Rohan Raj	IX 'B'	Rohan
05	26	V Kowshik	X 'B'	<u>V Kowshik</u>
06	17	Dhabani Sankar Patra	X-A/sec	<u>Dhabani</u>
07	29 29	G. Manogna Sai	X-A/sec	G. Manogna Sai
08	25	V. Jivitha Reddy	X-A/sec	V. Jivitha
09	18	T. Chandramauli	X-A/sec	<u>T. Chandramauli</u>
10	37	M. Reshwanth Sai	X-A/sec	M. Reshwanth Sai
11	25	K. Kishan Kumar Reddy	X-B/sec	K. Kishan Kumar Reddy
12	30	K. Mohith	X-A/SEC	K. Mohith
13	30	P. Pranav Teja	X-B/sec	P. Pranav Teja
14	30 35	gs. Md Ishak	X-A/sec	gs. Md Ishak
15	24	M. Jeevan Sai	X-B	M. Jeevan Sai
16	35	E. Ganji Krishna	X-B	<u>E. Ganji Krishna</u>
17	34	G. Dilip Kumar	X-A	G. Dilip
18	32	J. Sai Srikar	X-B	Sai Srikar B