



TINKERING LAB STRENGTHENING PROGRAM 2025-26

AN INITIATIVE OF
SAMAGRA SHIKSHA MEGHALAYA

IMPLEMENTED BY
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI



PROJECT IMPLEMENTATION REPORT



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In pursuance of strengthening school-based innovation and enhancing the effective utilization of existing Tinkering Labs, Samagra Shiksha Meghalaya, in collaboration with the Indian Institute of Technology Guwahati, initiated the Tinkering Lab Strengthening Program project as a focused school-level intervention. The project was conceptualized to reinforce hands-on, experiential learning practices and to ensure that the established Tinkering Lab infrastructure in PM SHRI schools is effectively utilized for meaningful STEM education.

The initiative places strong emphasis on practical learning in Science, Technology, Engineering, and Mathematics through structured, activity-based interventions conducted directly at the school level. By building upon the foundational Tinkering Lab facilities already available in schools, the project aims to deepen students' understanding of scientific concepts while nurturing creativity, logical reasoning, and real-world problem-solving abilities. The approach encourages students to actively engage with tools and basic technologies rather than limiting learning to theoretical instruction.

Science, Technology, and Innovation play a vital role in shaping future-ready learners in an increasingly technology-driven world. Recognizing this need, the project adopts an experiential learning methodology that promotes exploration, experimentation, and application-based understanding of STEM concepts. Students are encouraged to learn by doing, enabling them to connect classroom knowledge with practical applications and develop confidence in handling technological tools.

The Tinkering Lab Strengthening Program project primarily targets students of upper primary and secondary levels. The implementation is carried out with the aim of enhancing student capability in technology application, innovation-oriented thinking, and collaborative learning.

IIT Guwahati, as the implementing and mentoring institution, has extended technical support and academic guidance by deploying expert mentors to conduct structured hands-on training programs in schools, in accordance with the approved project mandate and guidelines.

REPORT CONTENTS



Rashtriya
Avishkar
Abhiyan

REPORT CONTENT

- **STRENGTHENING PROGRAM – AT A GLANCE**
 - OVERVIEW
 - SCOPE OF WORK
- **PROJECT IMPLEMENTATION**
 - SCHOOL-LEVEL IMPLEMENTATION
 - STUDENT TRAINING SESSIONS
 - TEACHER ENGAGEMENT
 - ASSESSMENT EVALUATION
 - SCHOOL-LEVEL ENGAGEMENT
- **PROJECT MILESTONES**
 - STUDENT TRAINING PROGRAM
 - ACTIVITIES CONDUCTED
 - TEACHER TRAINING PROGRAM
 - USE OF CONSUMABLE ITEMS
 - LEARNING CONTENTS
 - BENEFITS OF THE MATERIALS
- **ADD ON INITIATIVE**
 - TECHNOLOGY CONGRESS
 - QUIZ-BASED LEARNING
- **PROGRAM STATISTICS**
 - TIMELINE
 - OVERALL STATISTICS
- **CURRICULUM DETAILS**
- **BENEFITS OF IIT IMPLEMENTED PROJECT**
- **LEARNING MATERIALS PROVIDED**
- **AT A GLANCE –**
 - SCHOOL LEVEL TRAINING
 - TECHNOLOGY CONGRESS
 - QUIZ COMPETITION
- **TRAINING COMPLETION REPORT**

PROGRAM AT A GLANCE





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OVERVIEW OF THE PROJECT

The Tinkering Lab Strengthening Program initiative, implemented under the Samagra Shiksha Meghalaya framework in collaboration with IIT Guwahati, advances the vision of experiential STEM education for government schools across Meghalaya. Building on the initial establishment of Tinkering Labs in 16 schools, this follow-up project for 2025-26 broadens the learning ecosystem by introducing 2-day school-level intervention that span Robotics, Artificial Intelligence, Machine Learning, Electronics, and Design Thinking. The initiative reflects a systematic approach led by IIT Guwahati, involving hands-on teacher mentorship, dynamic student workshops, and comprehensive hardware augmentation, ensuring vibrant, innovation-centric learning spaces for every participating school.

Empowering both students and teachers, the program provides enhanced component kits designed for interactive experimentation, updated educational resources, and digital e-content crafted by domain experts. Workshops and training sessions focus on translating foundational knowledge into practical application, fostering critical thinking, creative problem-solving, and a robust understanding of modern STEM concepts. Beyond the classroom, the project includes competitive events such as state-wide quizzes, hackathons, refresher sessions for educators, and project exhibitions, providing students avenues to demonstrate creativity, collaborate on real-world challenges, and achieve statewide recognition.

At its core, the project aspires to establish a sustainable culture of innovation - one where students take active, ongoing roles in technological development and scientific exploration. By nurturing curiosity and creativity, the initiative equips young learners with future-ready competencies necessary for success in the 21st century. This collaborative endeavor by Samagra Shiksha Meghalaya and IIT Guwahati stands as a model for integrating advanced technology, experiential pedagogy, and grassroots empowerment in school education, laying the foundation for an innovative and prosperous future for Meghalaya's students.



SCOPE OF WORK

The Tinkering Lab Strengthening Program project encompasses a focused and structured approach to strengthening hands-on STEM learning practices across selected PM SHRI government schools in Meghalaya. The scope of the initiative has been carefully defined to ensure effective utilization of the existing Tinkering Lab infrastructure and to provide meaningful experiential learning opportunities to students & teachers through school-level interventions. The project emphasizes practical engagement, concept reinforcement, and student participation through guided activities conducted within the school environment.

TWO-DAY SCHOOL LEVEL TRAINING PROGRAM

The project involved the conduct of a two-day school-level training program in each identified PM SHRI school as part of the Tinkering Lab Strengthening Program. The training was designed to provide intensive, hands-on exposure to students using existing Tinkering Lab facilities available in the schools. Each day comprised multiple structured sessions focusing on practical STEM learning through demonstrations, guided activities, group work, and student-led interactions. The two-day format ensured sufficient time for concept introduction, hands-on experimentation, assessment, and reflection, allowing students to engage meaningfully with lab resources. Teachers participated alongside students, supporting activities and gaining exposure to experiential learning practices that could be continued beyond the training period.

TRAINING PROGRAM DETAILS

PHASE	ASPECT	KEY TAKEAWAY
TIMELINE	2 CONSECUTIVE DAYS	CONCENTRATED, IMMERSIVE LEARNING.
SETTING	PHYSICAL	SCHOOL-LEVEL INTERVENTION.
OBJECTIVE	HANDS-ON TRAINING	OPTIMIZING USAGE OF EXISTING TINKERING LABS.
APPROACH	DEMO & PRACTICE	ACTIVE STUDENT & TEACHER PARTICIPATION.

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SCOPE OF WORK

TEACHER & STUDENT TRAINING PROGRAM

The program emphasized combined training of students and teachers to ensure sustainability of learning beyond the mentor-led sessions. Students actively participated in hands-on activities, group tasks, project demonstrations, and presentations, while teachers supported implementation and observed experiential teaching methodologies. Teacher participation enabled better understanding of lab management, facilitation of practical activities, and integration of hands-on learning into regular academic practices. This joint training approach strengthened collaboration between students and teachers and supported continuity of Tinkering Lab usage after the completion of training.

USE OF PROJECT MODEL KITS

Pre-fabricated learning models and activity aids were used during training sessions to support concept demonstration and hands-on learning. These models helped students visualize mechanisms, understand structural design, and relate theoretical concepts to physical representations. The use of such learning aids enhanced engagement and enabled smoother execution of activities within the limited training duration. These models were used as instructional supports during mentor-led demonstrations and student activities. Their purpose was to facilitate understanding of concepts such as motion, structure, and system integration, without implying permanent kit installation or distribution.

PROVISION & USE OF CONSUMABLE ITEMS

Consumable items required for hands-on activities were provided and utilized during the training sessions to enable experimentation, circuit building, and project execution. These consumables included components typically used during practical learning activities and subject to regular use and replacement. The use of consumable materials ensured that students could actively participate in hands-on tasks rather than only observing demonstrations. All consumables were used during on-site training sessions under mentor supervision, supporting effective learning and alignment with the project mandate.

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PROJECT IMPLEMENTATION

SCHOOL-LEVEL IMPLEMENTATION

School-level implementation focused on conducting structured, hands-on training sessions within PM SHRI schools using existing Tinkering Lab facilities. The approach ensured active student engagement and practical exposure to foundational STEM concepts through mentor-guided activities.

STUDENT TRAINING SESSIONS

- Conducted two-day hands-on training sessions in schools
- Engaged students in group-based activities and model building
- Strengthened STEM understanding through practical learning
- Encouraged active participation and peer collaboration
- Improved familiarity with Tinkering Lab tools and components

TEACHER ENGAGEMENT

- Teachers facilitated student participation during training
- Observed hands-on methods and lab utilization practices
- Supported continued lab-based learning after training
- Assisted mentors in smooth session coordination
- Gained confidence in managing practical lab activities

ASSESSMENT EVALUATION

- Assessed conceptual and practical understanding.
- Reviewed student engagement and participation.
- Reinforced key concepts during training.
- Identified areas for improvement.
- Supported immediate clarification of learning gaps.

ADDITIONAL INITIATIVE

- Implemented a Technology Congress as part of project execution.
- Facilitated student demonstrations of project models developed.
- Conducted quiz-based activities to reinforce key concepts.
- Integrated quizzes into training sessions as part of interactive learning.

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PROJECT MILESTONES

The Tinkering Lab Strengthening Program was implemented through a structured milestone-based approach to ensure systematic execution of school-level interventions. Each milestone supported effective coordination, hands-on learning delivery, and alignment with the approved project objectives.

STUDENT TRAINING PROGRAM

A key milestone of the program was the conduct of structured student training sessions at the school level using existing Tinkering Lab facilities. Students were introduced to foundational concepts in electronics, robotics, automation, and introductory artificial intelligence through guided demonstrations and practical activities. This milestone was achieved through active student participation, collaborative learning, and engagement in hands-on experimentation.

ACTIVITIES CONDUCTED

- **Development and Demonstration of Project Models:** Built and demonstrated project models to support core concept understanding.
- **Use of Hardware Components and Consumables:** Used hardware components and consumables for hands-on training activities.
- **Soft Skills Development through Student Presentations:** Conducted student presentations to strengthen communication and presentation skills.
- **Technology Congress / Project Showcase:** Organized a school-level project showcase to encourage participation and learning.

TEACHER TRAINING PROGRAM

Another important milestone involved the active participation of teachers during the training process. Teachers supported student activities and observed hands-on teaching methodologies to understand effective utilization of Tinkering Lab resources. This milestone strengthened teachers' capacity to facilitate experiential learning and support lab-based activities beyond the mentor-led sessions.



PROJECT MILESTONES

USE OF CONSUMABLE ITEMS

- Provided necessary consumable items to support hands-on training.
- Utilized consumables for circuit building, experimentation, and execution.
- Ensured consumables were used efficiently under mentor supervision.
- Supported uninterrupted learning through timely material availability.
- Aligned consumable usage with training objectives and project mandate.



Project Development at UMTHLONG NONGTHIEW GOVT. SEC SCHOOL, EASTERN WEST KHASI HILLS

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PROJECT MILESTONES

LEARNING CONTENTS

The learning contents under the Tinkering Lab Strengthening Program were designed to support hands-on, activity-based learning during school-level training sessions. These contents facilitated practical understanding of STEM concepts through guided demonstrations and student-centered activities.

MODULES

- **Electronics:** Step-by-step guidance for building basic electronic circuits using commonly available components.
- **Robotics:** Introduction to basic robotics components, motion concepts, and simple control mechanisms.
- **Artificial Intelligence (AI):** Introductory activities explaining basic AI concepts through simple demonstrations and logical examples.
- **Internet of Things (IoT):** Hands-on activities demonstrating sensor-based applications and basic connectivity concepts between devices.
- **Design Thinking:** Activity-based explanations highlighting real-world problem-solving approaches and creative thinking methods.

BENEFITS OF THE MATERIALS

- **Self-Paced Learning:** The learning contents allowed students to progress at a comfortable pace and revise concepts during activities.
- **Visual and Experiential Learning:** Demonstrations and practical activities created a visual learning environment, making concepts easier to understand.
- **Teacher Support:** Teachers used the learning contents as reference support during training and lab-based activities.
- **Consistency in Learning Experience:** The structured contents ensured a uniform learning experience across schools despite varying backgrounds.
- **Scalable and Adaptable Learning:** The materials can be reused for repeated activities, supporting continued engagement in Tinkering Labs.



ADD-ON INITIATIVE

TECHNOLOGY CONGRESS

- Organized a Technology Congress to showcase student learning.
- Students demonstrated project models developed during training.
- Encouraged peer learning through interaction and idea sharing.
- Enhanced student confidence through explanation and presentation.



UNITED KHARKHUTTA GOVT. HSS, NORTH GARO



DALU GOVT. HSS, WEST GARO HILLS

QUIZ-BASED LEARNING

- Conducted quiz activities to reinforce concepts
- Designed quizzes to assess understanding in an interactive manner.
- Encouraged active participation and healthy learning-based competition.
- Enhanced student engagement through interactive assessment methods.



TIKRIKILLA GOVT. UPS, WEST GARO HILLS



CHIBONGGA GOVT. U.P.S., NORTH GARO HILLS



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PROGRAM STATISTICS

As part of the implementation of the Tinkering Lab Strengthening Program, delivery of materials and conduct of school-level training formed an integral component of the project execution. The program was designed to utilize existing Tinkering Lab infrastructure available in PM SHRI schools, while ensuring that students received effective hands-on exposure through structured training sessions. All materials and components required for training activities were carried by IIT Guwahati mentors and used during on-site sessions for demonstrations, guided experimentation, and student project work. This approach ensured optimal use of resources and supported smooth execution of training activities within the school environment.

TIMELINE

- School-level Training Program – 16th FEB 2026 – 12th MAR 2026

OVERALL STATISTICS

7

No. of Districts Participated

16

No. of Schools Participated

500+

No. of Students Trained

17+

Sessions Conducted



CURRICULUM DETAILS

DAY 1

THEORY –

- Tinkering Lab – Recap, Materials in Lab, Innovations
- Scratch Coding - Recap, Uses and Exploring Coding Platform

PRACTICAL –

- P1. Automatic Refrigerator Door Alarm - Electronic Project
- P2. Self-Parking Robot
- P3. Music Reactive RGB Light Stand
- P4. Split-Flap Display Character
- P5. Baby Cradle

SOFT-SKILLS TRAINING –

- Technology Congress by students

DAY 2

THEORY –

- Revision of Day 1 - Q&A Session
- Electronics – Recap, Microcontroller, Sensors and It's uses
- Revision of AI/ML and It's modules in Scratch Coding

PRACTICAL –

- P6. Hand Gesture Based Flappy Bird Game
- P7. I.V. Bag Level Monitoring and Alert System
- P8. Rain Detector Cloth Hanger
- P9. AI Pet Food Dispenser Machine

EVALUATION –

- Student Learning Assessment

SHOWCASE –

- Technology Congress by students

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BENEFITS OF IIT IMPLEMENTED PROJECTS

The Tinkering Labs project implemented by IIT Guwahati has far-reaching benefits for the education ecosystem in Meghalaya. Some key benefits include:.

ENHANCING STEM EDUCATION

The implementation of the Tinkering Lab Strengthening Program contributed to strengthening students' understanding of STEM concepts through hands-on and activity-based learning. Practical exposure enabled students to relate theoretical knowledge with real-world applications, improving conceptual clarity and interest in science and technology subjects.

STUDENT SKILL DEVELOPMENT

Through structured training sessions, students developed essential skills such as logical thinking, problem-solving, and basic technical handling. Engagement with tools, components, and guided activities helped build confidence and encouraged independent exploration within the Tinkering Lab environment. In addition, students improved their ability to work collaboratively in groups and approach challenges systematically.

TEACHER CAPACITY BUILDING

Teachers benefited from observing mentor-led hands-on teaching methodologies and supporting student activities during training sessions. This exposure enhanced their ability to facilitate experiential learning and effectively utilize Tinkering Lab resources as part of regular academic practices. Teachers also gained better understanding of managing lab-based sessions and guiding student experimentation.



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BENEFITS OF IIT IMPLEMENTED PROJECTS

PROMOTING INNOVATION

The project fostered a culture of curiosity, creativity, and experimentation among students. Open-ended activities and guided experimentation encouraged students to think innovatively, explore multiple solutions, and develop a mindset oriented toward inquiry and innovation. Hands-on activities encouraged students to explore ideas independently and apply creative thinking to practical challenges.

BUILDING FUTURE-READY SKILLS

The program supported the development of foundational skills required for future academic and career pathways in science and technology. Exposure to hands-on activities, problem-solving tasks, and structured experimentation helped students develop adaptability, logical reasoning, and basic technological awareness. These skills contribute to preparing learners for advanced STEM education and emerging technology-driven learning environments. Early exposure to technology-oriented learning helped students develop adaptability and readiness for advanced STEM education.

SUSTAINABLE LEARNING ECOSYSTEM

By strengthening practical engagement rather than introducing new infrastructure, the project supported sustained and effective utilization of existing Tinkering Labs. Schools were better positioned to continue hands-on activities independently, ensuring long-term value and continuity of the initiative. This approach helped schools integrate hands-on learning as a regular and continuous part of the academic environment.

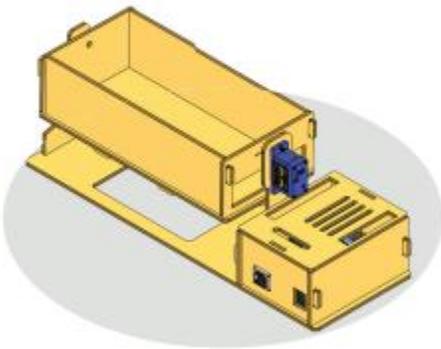
SCHOOL-LEVEL TRAINING





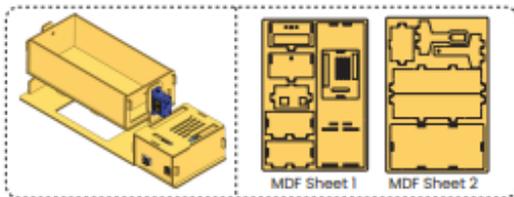
LEARNING MATERIALS PROVIDED

Automatic Cradle



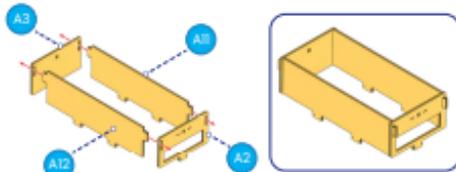
AUTOMATIC CRADLE

Automatic Cradle

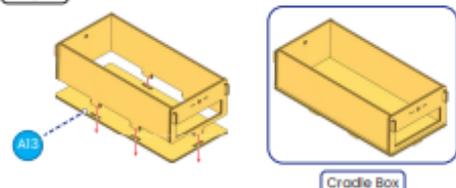


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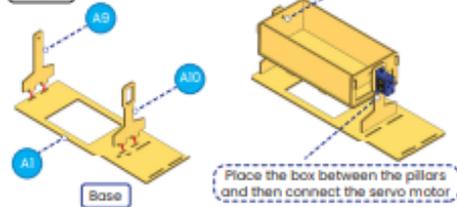
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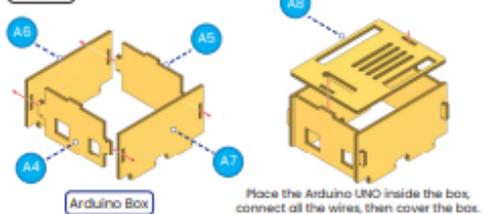
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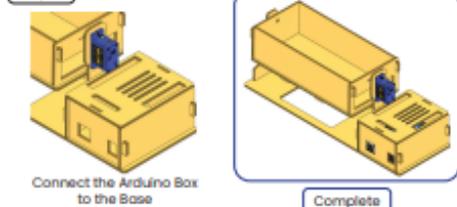
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Step 4



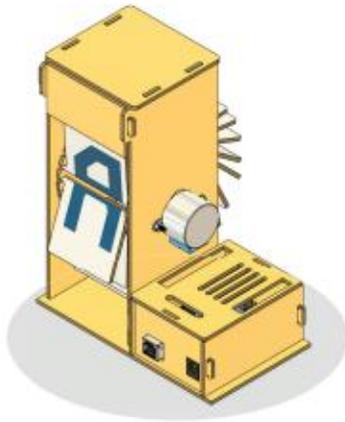
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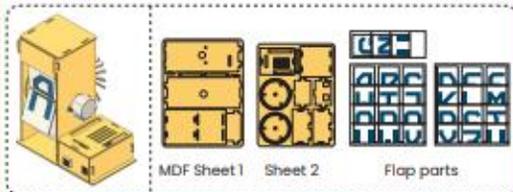
LEARNING MATERIALS PROVIDED

Split-Flap Display

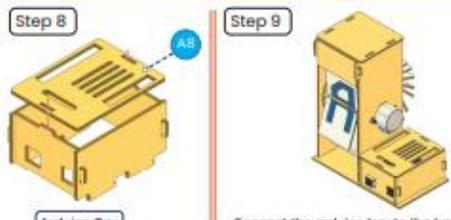
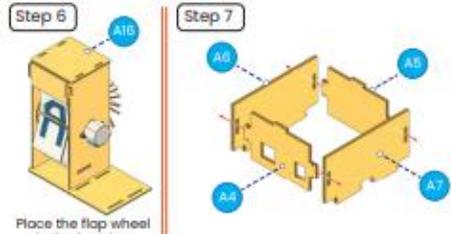
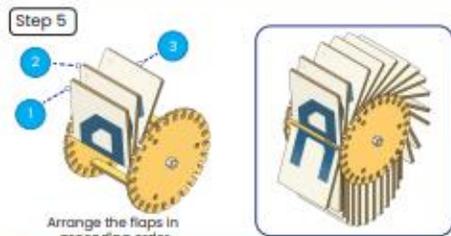
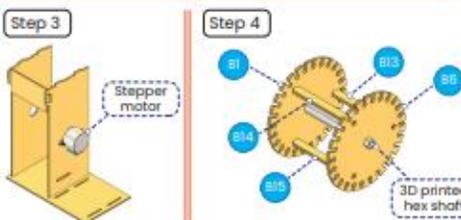
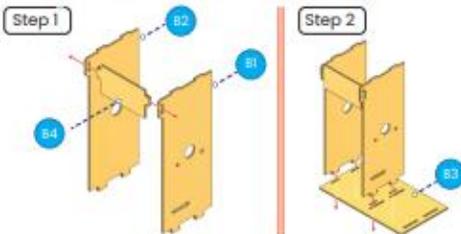


SPLIT-FLAP DISPLAY

Split-Flap Display



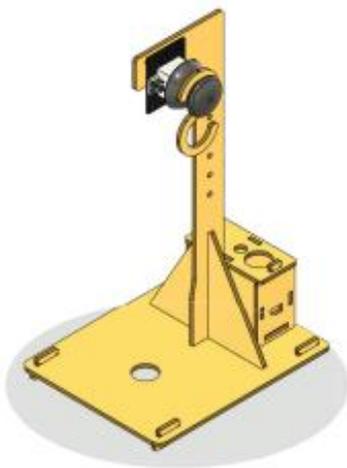
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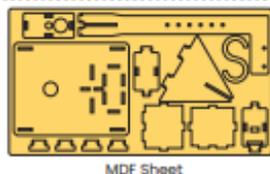
LEARNING MATERIALS PROVIDED

Automated IV Bag Alert System



AUTOMATED I.V. ALERT SYSTEM

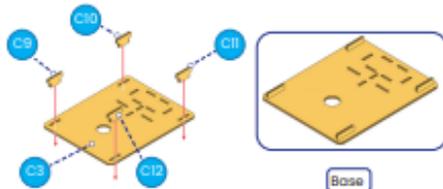
Automated IV Bag Alert System



MDF Sheet

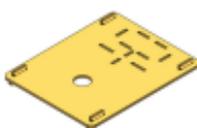
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Step 1



Base

Step 2



Flip the base upside down after step 1

Step 3



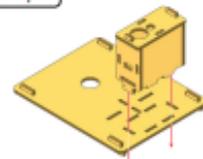
Electronics Box

Step 4



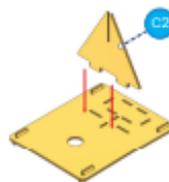
Put the cover

Step 5

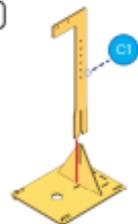


Connect the electronics box to the base

Step 6



Step 7



Step 8



Joystick
C0

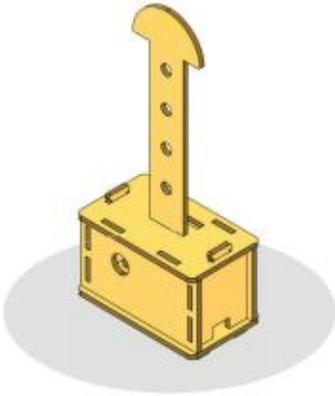


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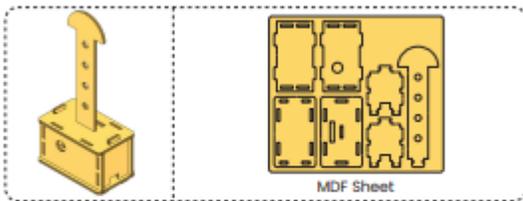
LEARNING MATERIALS PROVIDED

Music Reactive Light System



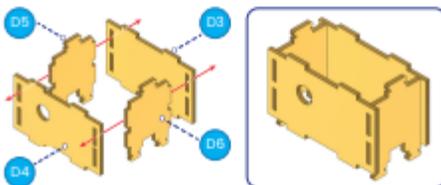
MUSIC REACTIVE LIGHT SYSTEM

Music Reactive Light System

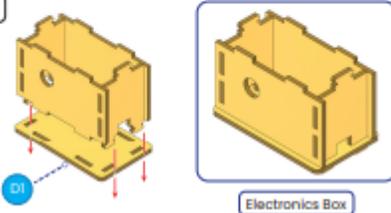


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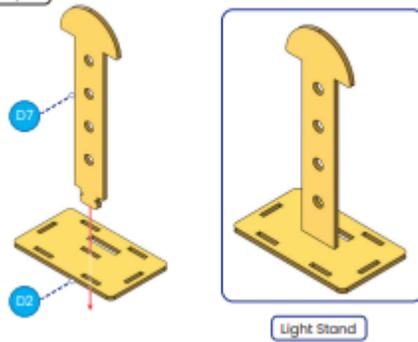
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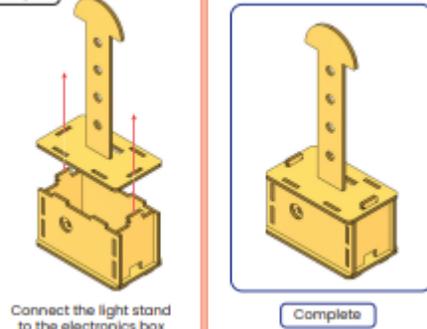
Step 2



Step 3

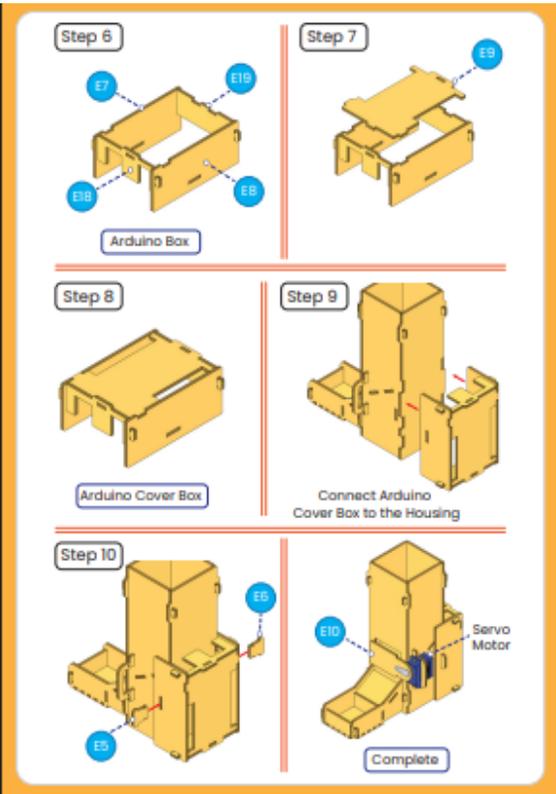
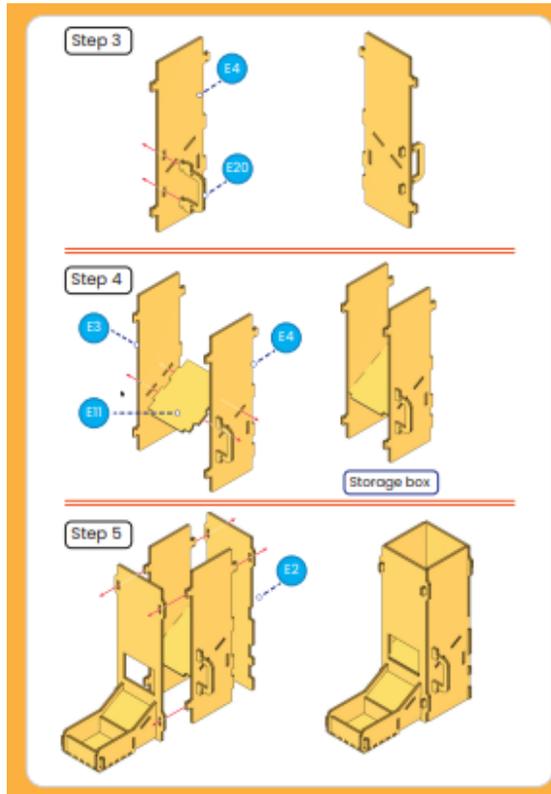
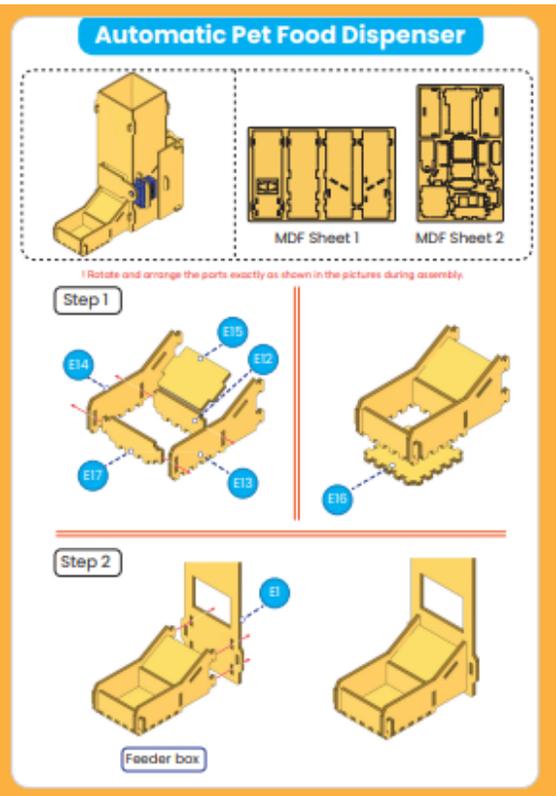


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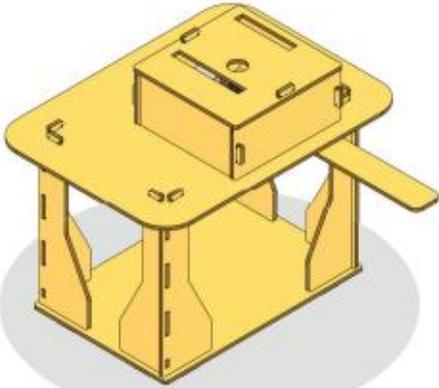
LEARNING MATERIALS PROVIDED





LEARNING MATERIALS PROVIDED

Automatic Cloth Hanger

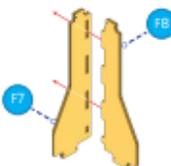


Automatic Cloth Hanger

MDF Sheet 1 MDF Sheet 2

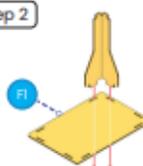
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Step 1



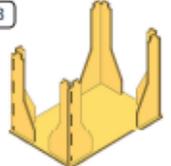
Stand Part 1 of 4

Step 2



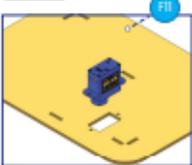
Connect the stand to the base

Step 3



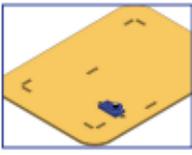
Connect rest of the stand to the base

Step 4



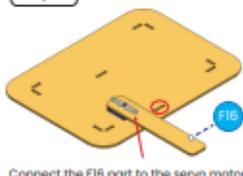
Attach the servo motor to part F11 (Top part)

Step 5



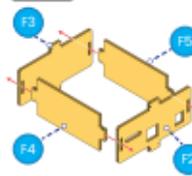
Flip the roof upside down.

Step 6



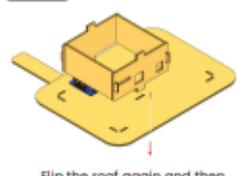
Connect the F16 part to the servo motor. It should be placed near the highlighted slot as shown.

Step 7



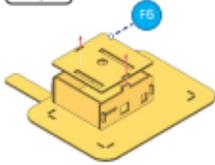
Arduino Box

Step 8



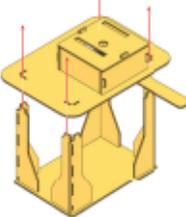
Flip the roof again and then connect the Arduino box

Step 9



Cover the Arduino box

Step 10



Finally, connect the top parts to the stand



LEARNING MATERIALS PROVIDED

Self Parking Car

Self Parking Car

MDF Sheet

1 Rotate and arrange the parts exactly as shown in the pictures during assembly.

Step 1 Steering Mechanism: Layering the parts

1st Layer 2nd Layer 3rd Layer

4th Layer Connect these two parts in the 3rd layer. Completed

Step 2

Attach the servo motor to the base (G12) part and tighten it with screws.

Step 3

Flip the base up and connect the steering components to the servo motor and the base with screws.

Step 4

Housing

Step 5

Connect the housing to the base

Step 6 Connect the electronic components

<p>BO motor</p>	<p>Ultrasonic Sensor</p>
<p>Motor Driver</p>	<p>Arduino UNO</p>



LEARNING MATERIALS PROVIDED

Smart Locker

Smart Locker

MDF Sheet

Rotate and arrange the parts exactly as shown in the pictures during assembly.

Step 1

Step 2

Locker Door

Step 3

Step 4

Step 5

Step 7

Step 8

Step 6

Locker Housing

Step 9

Electronics box

Step 9

Place the electronics box on top of the locker housing

Complete



AT A GLANCE- SCHOOL LEVEL TRAINING



School-level Training at DALU GOVT. HSS, WEST GARO HILLS



Project Development at JENGJAL GOVT. UP SCHOOL, WEST GARO HILLS



AT A GLANCE- SCHOOL LEVEL TRAINING



Project Development at DALU GOVT. HSS, WEST GARO HILLS



Project Development at SELSELLA GOVT. UP SCHOOL, WEST GARO HILLS



AT A GLANCE- SCHOOL LEVEL TRAINING



Project Development at BAGHMARA GOVT. HR. SEC SCHOOL, SOUTH GARO HILLS



Teacher engagement during Training at UMTHLONG NONGTHIEW GOVT. SS, EASTERN WEST KHASI



AT A GLANCE- SCHOOL LEVEL TRAINING



Students engagement on Hands-on Training at GOVERNMENT PUBLIC SCHOOL- JOWAI, WEST JAINTIA



Teacher engagement during Training at GOVT. GIRLS HS, EAST KHASI HILLS



AT A GLANCE- TECHNOLOGY CONGRESS



Technology Congress at GOVERNMENT PUBLIC SCHOOL- JOWAI, WEST JAIINTIA HILLS



Technology Congress at TIKRIKILLA GOVT. UPS, WEST GARO HILLS



AT A GLANCE- TECHNOLOGY CONGRESS



Technology Congress at UMTHLONG NONGTHIEW GOVT. SEC SCHOOL, EASTERN WEST KHASI HILLS



Technology Congress at GOVT. GIRLS HS, EAST KHASI HILLS



AT A GLANCE- QUIZ COMPETITION



Quiz-based Learning At UNITED KHARKHUTTA GOVT. HSS, NORTH GARO HILLS



Quiz-based Learning At BAGHMARA GOVT. HR. SEC SCHOOL, SOUTH GARO HILLS



AT A GLANCE- QUIZ COMPETITION



Quiz-based Learning At DADENGGRE PURI GOVT. HSS, WEST GARO HILLS



Quiz-based Learning At GOVT. GIRLS HS, EAST KHASI HILLS

TRAINING COMPLETION REPORT



GABIL DANINGKA UP. SCHOOL
EAST GARO HILLS

PROGRAM DATES
20/02/26 TO 21/02/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



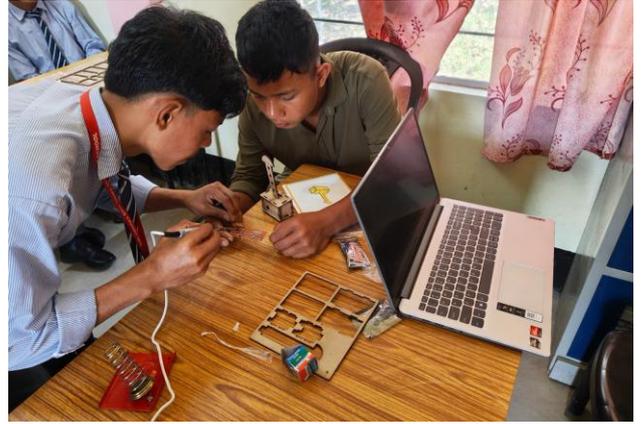
SOFT-SKILLS: PRESENTATION



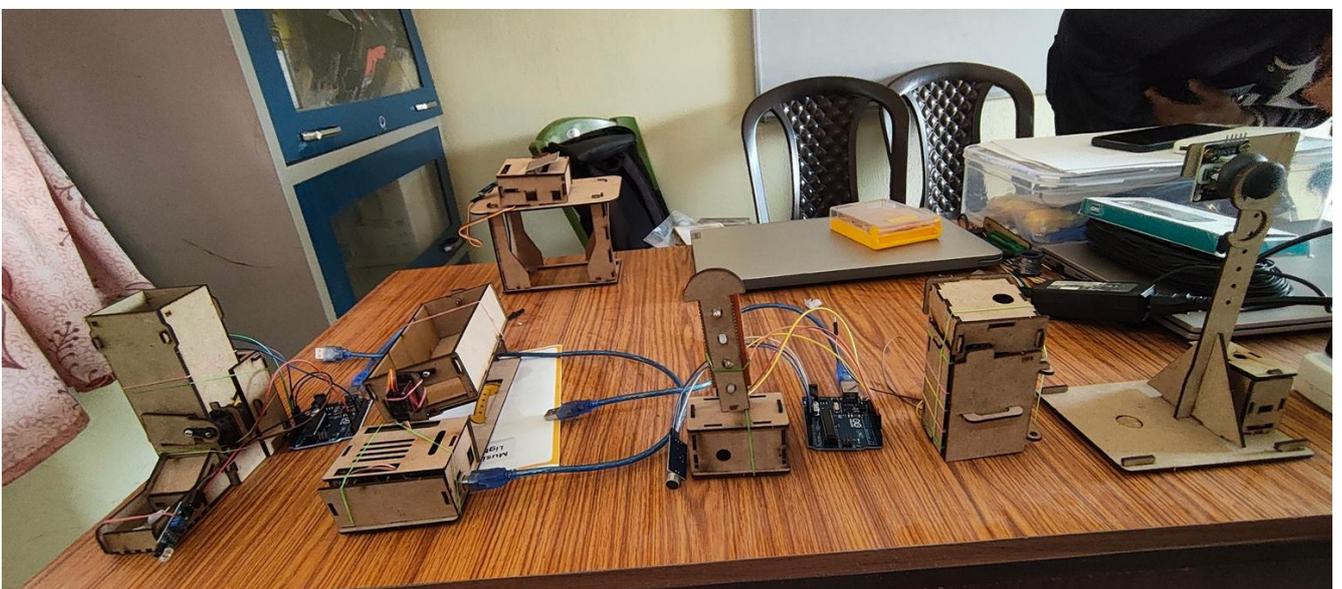
GABIL DANINGKA UP. SCHOOL
EAST GARO HILLS

PROGRAM DATES
20/02/26 TO 21/02/26

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





GABIL DANINGKA UP. SCHOOL
EAST GARO HILLS

PROGRAM DATES
20/02/26 TO 21/02/26

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	GABIL DANINGKA UP. SCHOOL
District Name	EAST GARO HILLS
Participant Teacher Name	CHIME LORA R. SANGMA.
Teacher Contact Details	9863 776080
SCHOOL PARTICIPATION	
Date: 20/02/2026	Date: 21/02/2026
Day 1: 30	Day 2: 32

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding - Recap, Uses and Exploring Coding Platform
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	4	Project	Self-Parking Robot
	5	Project	Music Reactive RGB Light Stand
	6	Project	Split-Flap Display Character
	7	Project	Baby Cradle
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DAY 2	9	Theory	Revision of Day 1 - Q&A Session
	10	Theory	Electronics – Recap, Microcontroller, Sensors and It's uses
	11	Theory	Revision of AI/ML and It's modules in Scratch Coding
	12	Project	Hand Gesture Based Flappy Bird Game
	13	Project	I.V. Bag Level Monitoring and Alert System
	14	Project	Rain Detector Cloth Hanger
	15	Project	AI Pet Food Dispenser Machine
	16	Evaluation	Student Learning Assessment
	17	Showcase	Technology Congress by students

I, the undersigned, confirm that IIT Guwahati successfully conducted the 2-day Tinkering Lab training program at our school to strengthen the existing lab.

The training served as a refresher initiative for schools previously equipped with the Tinkering Lab, and included the provision of hardware and consumable kits. We appreciate the IIT Guwahati team's continued efforts in delivering an engaging and impactful hands-on learning experience.

Principal/Cum-Secretary
Gabil Daningka Higher Sec. School

East Garo Hills, Meghalaya
AUTHORIZED SIGNATURE

SEAL/STAMP OF SCHOOL

Date: 21/02/26

MOONLIGHT U.P. SCHOOL
EAST GARO HILLS

PROGRAM DATES
18/02/26 TO 19 /02/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



MOONLIGHT U.P. SCHOOL
EAST GARO HILLS

PROGRAM DATES
18/02/26 TO 19 /02/26

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





MOONLIGHT U.P. SCHOOL
EAST GARO HILLS

PROGRAM DATES
18/02/26 TO 19 /02/26

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	MOONLIGHT U.P. SCHOOL
District Name	EAST GARO HILLS
Participant Teacher Name	Nambe K. Sangma
Teacher Contact Details	8787783968
SCHOOL PARTICIPATION	
Date: 18/02/2026	Date: 19/02/2026
Day 1: 30	Day 2: 34

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

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DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
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	6	Project	Split-Flap Display Character
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	14	Project	Rain Detector Cloth Hanger
	15	Project	AI Pet Food Dispenser Machine
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	17	Showcase	Technology Congress by students

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Nambe K. Sangma
Headmaster-Cum-Secretary
Moonlight U.P. School
East Garo Hills
AUTHORIZED SIGNATURE

Headmaster-Cum-Secretary
Moonlight RMSA Sec. School
East Garo Hills

SEAL/STAMP OF SCHOOL

RONGJENG GOVT. U.P.SCHOOL
EAST GARO HILLS

PROGRAM DATES
18/02/26 TO /19/02/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



**RONGJENG GOVT. U.P.SCHOOL
EAST GARO HILLS**

**PROGRAM DATES
18/02/26 TO /19/02/26**

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





RONGJENG GOVT. U.P.SCHOOL
EAST GARO HILLS

PROGRAM DATES
18/02/26 TO /19/02/26



TINKERING LAB STRENGTHENING PROGRAM 2025-26

AN INITIATIVE OF SAMAGRA SHIKSHA MEGHALAYA | IMPLEMENTED BY IIT GUWAHATI

PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	RONGJENG GOVT. U.P.SCHOOL
District Name	EAST GARO HILLS
Participant Teacher Name	SARI, CHAKKIM N. SANGMA
Teacher Contact Details	69092 98787
SCHOOL PARTICIPATION	
Date: 18/02/2026	Date: 19/02/2026
Day 1: 27	Day 2: 30

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding - Recap, Uses and Exploring Coding Platform
	3	Project	Automatic Refrigerator Door Alarm - Electronic Project
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	13	Project	I.V. Bag Level Monitoring and Alert System
	14	Project	Rain Detector Cloth Hanger
	15	Project	AI Pet Food Dispenser Machine
	16	Evaluation	Student Learning Assessment
	17	Showcase	Technology Congress by students

I, the undersigned, confirm that IIT Guwahati successfully conducted the 2-day Tinkering Lab training program at our school to strengthen the existing lab.

The training served as a refresher initiative for schools previously equipped with the Tinkering Lab, and included the provision of hardware and consumable kits. We appreciate the IIT Guwahati team's continued efforts in delivering an engaging and impactful hands-on learning experience.

AUTHORIZED SIGNATURE

Rongjeng Govt. U.P. School
East Garo Hills
SEAL/STAMP OF SCHOOL

GOVT. GIRLS HR. SECONDARY SCHOOL
EAST KHASI HILLS

PROGRAM DATES
11/03/26 TO 12/03/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



GOVT. GIRLS HR. SECONDARY SCHOOL
EAST KHASI HILLS

PROGRAM DATES
11/03/26 TO 12/03/26

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





GOVT. GIRLS HR. SECONDARY SCHOOL
EAST KHASI HILLS

PROGRAM DATES
11/03/26 TO 12/03/26

COMPLETION CERTIFICATE

TINKERING LAB STRENGTHENING PROGRAM 2025-26

AN INITIATIVE OF SAMAGRA SHIKSHA MEGHALAYA | IMPLEMENTED BY IIT GUWAHATI

PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	GOVT. GIRLS HR. SECONDARY SCHOOL
District Name	EAST KHASI HILLS
Participant Teacher Name	Smt. Sangeeta Chakraborty
Teacher Contact Details	9436938376
SCHOOL PARTICIPATION	
Date: 11/02/2026	Date: 12/02/2026
Day 1: 21	Day 2:

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
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AUTHORIZED SIGNATURE



MYRIAW GOVT UPS
EASTERN WEST KHASI HILLS

PROGRAM DATES
18/02/2026 TO 19/02/2026

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



MYRIAW GOVT UPS
EASTERN WEST KHASI HILLS

PROGRAM DATES
18/02/2026 TO 19/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





MYRIAW GOVT UPS
EASTERN WEST KHASI HILLS

PROGRAM DATES
18/02/2026 TO 19/02/2026

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	MYRIAW GOVT UPS
District Name	EASTERN WEST KHASI HILLS
Participant Teacher Name	Merilin Lyngdoh
Teacher Contact Details	6009235420
SCHOOL PARTICIPATION	
Date: 18/02/2026	Date: 19/02/2026
Day 1: 14	Day 2: 22

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
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PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
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Ksm

AUTHORIZED SIGNATURE

Headmaster
Myriaw R M S A Secondary School

SEAL/STAMP OF SCHOOL

UMTHLONG NONGTHIEW GOVT. SEC SCHOOL
EASTERN WEST KHASI HILLS

PROGRAM DATES
16/02/2026 TO 17/02/2026

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



UMTHLONG NONGTHIEW GOVT. SEC SCHOOL
EASTERN WEST KHASI HILLS

PROGRAM DATES
16/02/2026 TO 17/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





UMTHLONG NONGTHIEW GOVT. SEC SCHOOL
EASTERN WEST KHASI HILLS

PROGRAM DATES
16/02/2026 TO 17/02/2026

COMPLETION CERTIFICATE

PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	UMTHLONG NONGTHIEW GOVT. SEC SCHOOL
District Name	EASTERN WEST KHASI HILLS
Participant Teacher Name	Iashemboy Jharshing
Teacher Contact Details	8974465209
SCHOOL PARTICIPATION	
Date: 16/02/2026	Date: 17/02/2026
Day 1: 18	Day 2: 21

As part of the project, the following activities were successfully conducted-

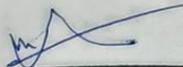
1. Student and teacher training in the school
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PROGRAM DETAILS:

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AUTHORIZED SIGNATURE

Principal
Umthlong-Nongthiew Govt. Hr. Sec. School

SEAL/STAMP OF SCHOOL

CHIBONGGA GOVT.U.P.S.
NORTH GARO HILLS

PROGRAM DATES
16/02/26 TO 17/02/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



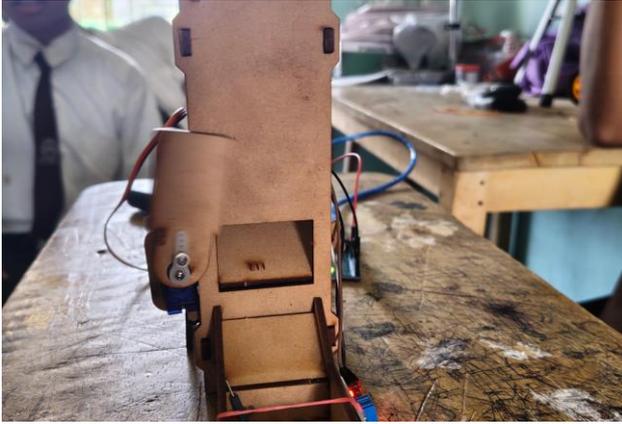
SOFT-SKILLS: PRESENTATION



CHIBONGGA GOVT.U.P.S.
NORTH GARO HILLS

PROGRAM DATES
16/02/26 TO 17/02/26

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





CHIBONGGA GOVT.U.P.S.
NORTH GARO HILLS

PROGRAM DATES
16/02/26 TO 17/02/26

COMPLETION CERTIFICATE

AN INITIATIVE OF SAMAGRA SHIKSHA MEGHALAYA | IMPLEMENTED BY IIT GUWAHATI
PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	CHIBONGGA GOVT.U.P.S.
District Name	NORTH GARO HILLS
Participant Teacher Name	Radesh Rabha
Teacher Contact Details	8014015026
SCHOOL PARTICIPATION	
Date: 16/02/2026	Date: 17/02/2026
Day 1: 17	Day 2: 15

As part of the project, the following activities were successfully conducted-

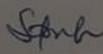
1. Student and teacher training in the school
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	13	Project	I.V. Bag Level Monitoring and Alert System
	14	Project	Rain Detector Cloth Hanger
	15	Project	AI Pet Food Dispenser Machine
	16	Evaluation	Student Learning Assessment
	17	Showcase	Technology Congress by students

I, the undersigned, confirm that IIT Guwahati successfully conducted the 2-day Tinkering Lab training program at our school to strengthen the existing lab.

The training served as a refresher initiative for schools previously equipped with the Tinkering Lab, and included the provision of hardware and consumable kits. We appreciate the IIT Guwahati team's continued efforts in delivering an engaging and impactful hands-on learning experience.


AUTHORIZED SIGNATURE


Headmistress
Chibongga Govt. U. P. School
SEAL/STAMP OF SCHOOL
North Garo Hills, Meghalaya

UNITED KHARKUTTA GOVT. HSS
NORTH GARO HILLS

PROGRAM DATES
16/02/26 TO 17 /02/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



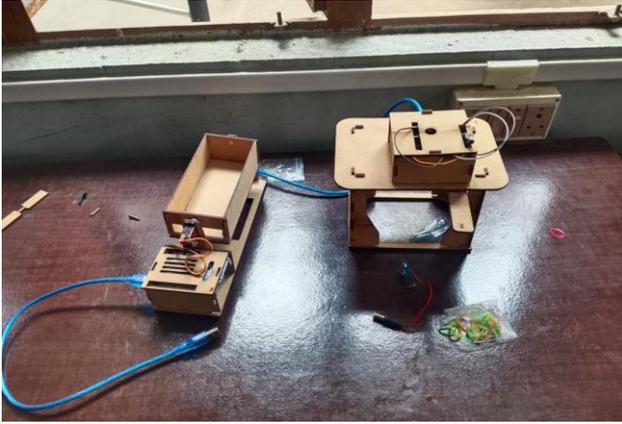
SOFT-SKILLS: PRESENTATION



UNITED KHARKUTTA GOVT. HSS
NORTH GARO HILLS

PROGRAM DATES
16/02/26 TO 17 /02/26

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





UNITED KHARKUTTA GOVT. HSS
NORTH GARO HILLS

PROGRAM DATES
16/02/26 TO 17 /02/26

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	UNITED KHARKUTTA GOVT. HSS
District Name	NORTH GARO HILLS
Participant Teacher Name	Geoline R Marak
Teacher Contact Details	9102977457
SCHOOL PARTICIPATION	
Date: 16/02/2026	Date: 17/02/2026
Day 1: 15	Day 2: 15

As part of the project, the following activities were successfully conducted-

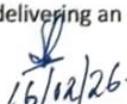
1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding - Recap, Uses and Exploring Coding Platform
	3	Project	Automatic Refrigerator Door Alarm - Electronic Project
	4	Project	Self-Parking Robot
	5	Project	Music Reactive RGB Light Stand
	6	Project	Split-Flap Display Character
	7	Project	Baby Cradle
	8	Soft-Skills Training	Project Presentation by students
DAY 2	9	Theory	Revision of Day 1 - Q&A Session
	10	Theory	Electronics – Recap, Microcontroller, Sensors and It's uses
	11	Theory	Revision of AI/ML and It's modules in Scratch Coding
	12	Project	Hand Gesture Based Flappy Bird Game
	13	Project	I.V. Bag Level Monitoring and Alert System
	14	Project	Rain Detector Cloth Hanger
	15	Project	AI Pet Food Dispenser Machine
	16	Evaluation	Student Learning Assessment
	17	Showcase	Technology Congress by students

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16/02/26
AUTHORIZED SIGNATURE


SEAL/STAMP OF SCHOOL
ESTD - 1993

BAGHMARA GOVT. HR. SEC.SCHOOL
SOUTH GARO HILLS

PROGRAM DATES
20/02/26 TO 21 /02/26

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



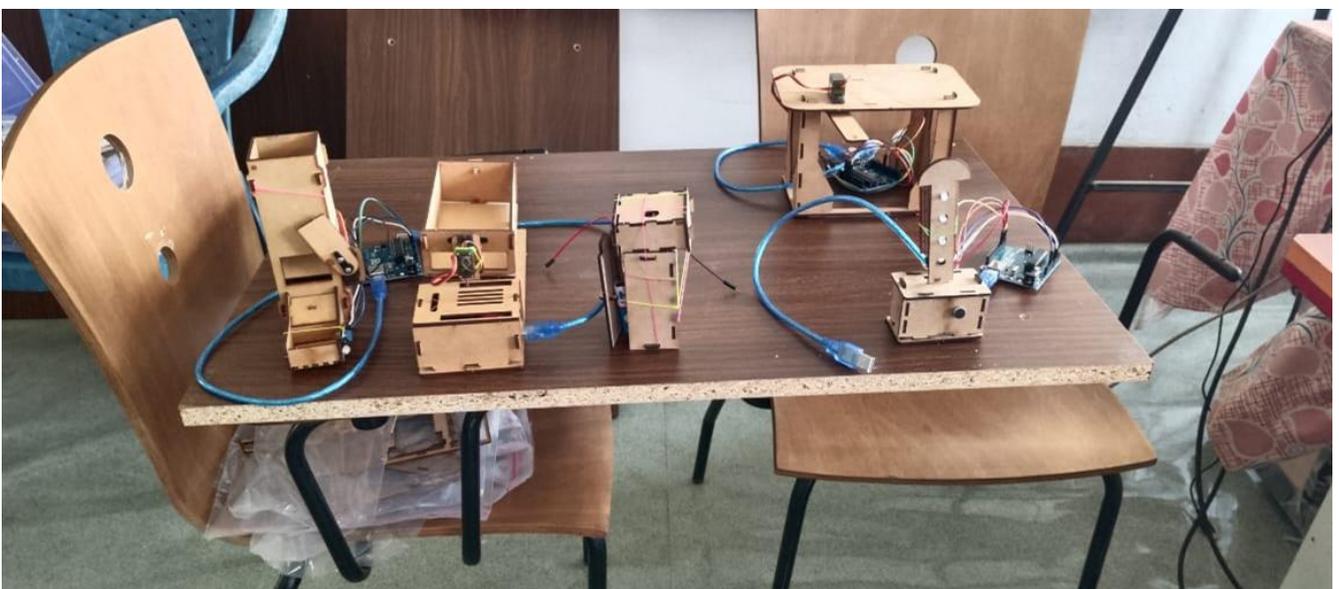
BAGHMARA GOVT. HR. SEC.SCHOOL
SOUTH GARO HILLS

PROGRAM DATES
20/02/26 TO 21 /02/26

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





BAGHMARA GOVT. HR. SEC.SCHOOL
SOUTH GARO HILLS

PROGRAM DATES
20/02/26 TO 21 /02/26

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	BAGHMARA GOVT. HR. SEC.SCHOOL
District Name	SOUTH GARO HILLS
Participant Teacher Name	Yanky Ringzemo G. Songmo
Teacher Contact Details	7005014485
SCHOOL PARTICIPATION	
Date: 20/02/2026	Date: 21/02/2026
Day 1: 18	Day 2: 15

As part of the project, the following activities were successfully conducted-

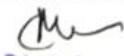
1. Student and teacher training in the school
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3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding - Recap, Uses and Exploring Coding Platform
	3	Project	Automatic Refrigerator Door Alarm - Electronic Project
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	5	Project	Music Reactive RGB Light Stand
	6	Project	Split-Flap Display Character
	7	Project	Baby Cradle
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DAY 2	9	Theory	Revision of Day 1 - Q&A Session
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I, the undersigned, confirm that IIT Guwahati successfully conducted the 2-day Tinkering Lab training program at our school to strengthen the existing lab.

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Principal

AUTHORIZED SIGNATURE
Baghmara, South Garo Hills



SEAL/STAMP OF SCHOOL

DADENGGRE PURI GOVT. HSS
WEST GARO HILLS

PROGRAM DATES
23/02/2026 TO 24/02/2026

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



DADENGGRE PURI GOVT. HSS
WEST GARO HILLS

PROGRAM DATES
23/02/2026 TO 24/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





DADENGGRE PURI GOVT. HSS
WEST GARO HILLS

PROGRAM DATES
23/02/2026 TO 24/02/2026

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	DADENGGRE PURI GOVT. HIGHER SECONDARY SCHOOL
District Name	WEST GARO HILLS
Participant Teacher Name	Dr. Naldarine M. Marak
Teacher Contact Details	6009648463
SCHOOL PARTICIPATION	
Date: 23/02/2026	Date: 24/02/2026
Day 1: 25	Day 2: 25

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding – Recap, Uses and Exploring Coding Platform
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	5	Project	Music Reactive RGB Light Stand
	6	Project	Split-Flap Display Character
	7	Project	Baby Cradle
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AUTHORIZED SIGNATURE

SEAL/STAMP OF SCHOOL
West Garo Hills, Meghalaya

DALU GOVT. HIGHER SEC. SCHOOL
WEST GARO HILLS

PROGRAM DATES
23/02/2026 TO 24/02/2026

OVERALL STATISTICS

20

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



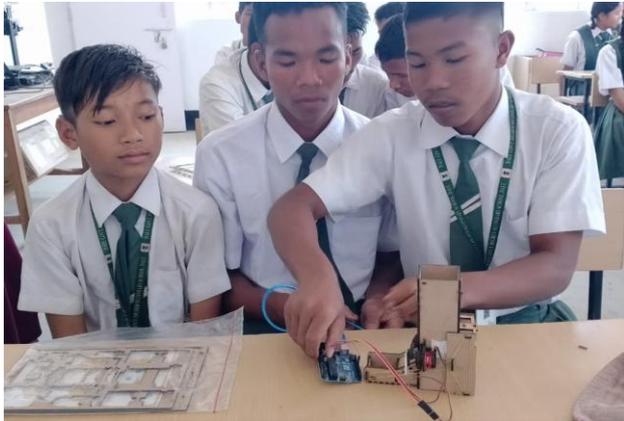
SOFT-SKILLS: PRESENTATION



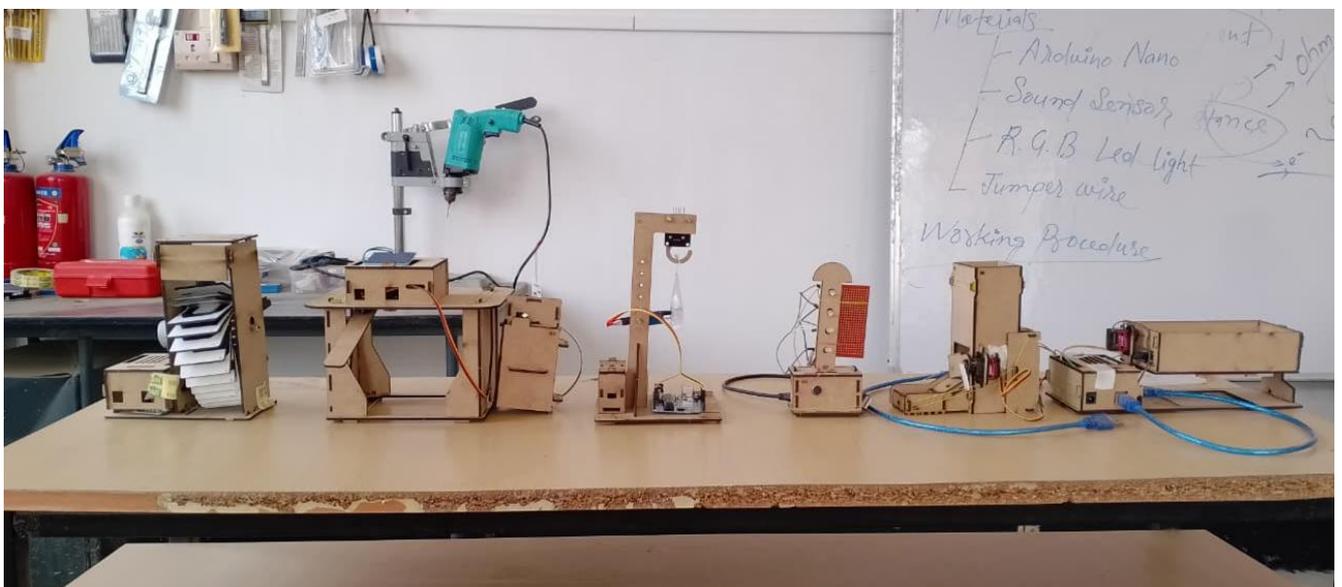
DALU GOVT. HIGHER SEC. SCHOOL
WEST GARO HILLS

PROGRAM DATES
23/02/2026 TO 24/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS

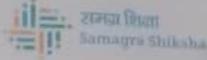




DALU GOVT. HIGHER SEC. SCHOOL
WEST GARO HILLS

PROGRAM DATES
23/02/2026 TO 24/02/2026

COMPLETION CERTIFICATE

TINKERING LAB STRENGTHENING PROGRAM 2025-26

AN INITIATIVE OF SAMAGRA SHIKSHA MEGHALAYA | IMPLEMENTED BY IIT GUWAHATI

PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	DALU GOVT. HIGHER SEC. SCHOOL
District Name	WEST GARO HILLS
Participant Teacher Name	Smt. Akalisha R Marak
Teacher Contact Details	8787698771
SCHOOL PARTICIPATION	
Date: 23/02/2026	Date: 24/02/2026
Day 1: 20	Day 2: 20

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
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 AUTHORIZED SIGNATURE



 SEAL/STAMP OF SCHOOL

JENGJAL GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
20/02/2026 TO 21/02/2026

OVERALL STATISTICS

20

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



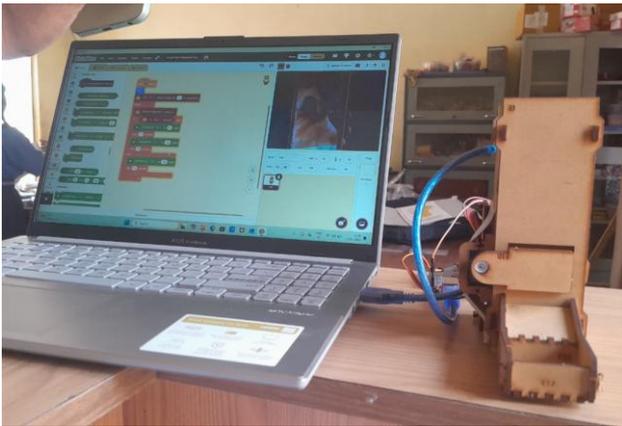
SOFT-SKILLS: PRESENTATION



JENGJAL GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
20/02/2026 TO 21/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





JENGJAL GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
20/02/2026 TO 21/02/2026

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	JENGJAL GOVT. UP SCHOOL
District Name	WEST GARO HILLS
Participant Teacher Name	Shibu Moolak
Teacher Contact Details	7005456178
SCHOOL PARTICIPATION	
Date: 20/02/2026	Date: 21/02/2026
Day 1: 20	Day 2: 15

As part of the project, the following activities were successfully conducted-

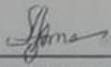
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2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

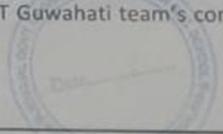
PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
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AUTHORIZED SIGNATURE


SEAL/STAMP OF SCHOOL

SELSELLA GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
21/02/2026 TO 23/02/2026

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



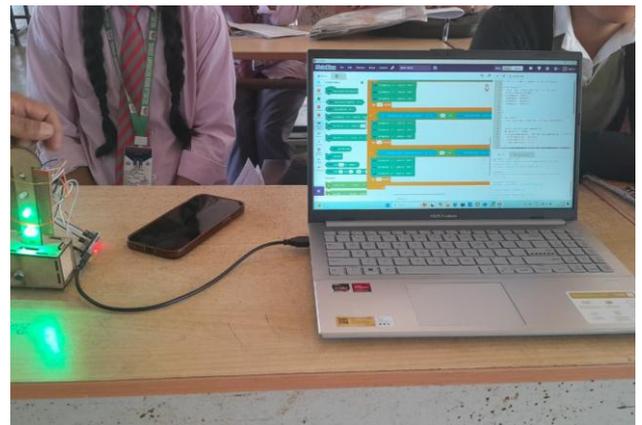
SOFT-SKILLS: PRESENTATION



SELSELLA GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
21/02/2026 TO 23/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





SELSELLA GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
21/02/2026 TO 23/02/2026

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	SELSELLA GOVT. UP SCHOOL
District Name	WEST GARO HILLS
Participant Teacher Name	Rohan Islam
Teacher Contact Details	7005170958
SCHOOL PARTICIPATION	
Date: 21/02/2026	Date: 23/02/2026
Day 1: 30	Day 2: 25

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding - Recap, Uses and Exploring Coding Platform
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AUTHORIZED SIGNATURE

Head Master
Selsella RMSA Secondary School
Selsella, West Garo Hills, Megh
SEAL/STAMP OF SCHOOL

SHYAMNAGAR GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
16/02/2026 TO 17/02/2026

OVERALL STATISTICS

20

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



SHYAMNAGAR GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
16/02/2026 TO 17/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





SHYAMNAGAR GOVT. UP SCHOOL
WEST GARO HILLS

PROGRAM DATES
16/02/2026 TO 17/02/2026

COMPLETION CERTIFICATE

TINKERING LAB STRENGTHENING PROGRAM 2025-26

AN INITIATIVE OF SAMAGRA SHIKSHA MEGHALAYA | IMPLEMENTED BY IIT GUWAHATI

PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	SHYAMNAGAR GOVT. UP SCHOOL (Secondary)
District Name	WEST GARO HILLS
Participant Teacher Name	Shri. Anind Silan & Shri. Abu Elias Akand
Teacher Contact Details	8787463897, 7636064013
SCHOOL PARTICIPATION	
Date: 16/02/2026	Date: 17/02/2026
Day 1: 20	Day 2: 20

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
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	5	Project	Music Reactive RGB Light Stand
	6	Project	Split-Flap Display Character
	7	Project	Baby Cradle
DAY 2	8	Soft-Skills Training	Project Presentation by students
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AUTHORIZED SIGNATURE

Principal
Shyamnagar Govt. RNTSA
Hr. Govt. School

SEAL/STAMP OF SCHOOL

SEAL/STAMP OF SCHOOL

TIKRIKILLA GOVT. UPS
WEST GARO HILLS

PROGRAM DATES
18/02/2026 TO 19/02/2026

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



SOFT-SKILLS: PRESENTATION



TIKRIKILLA GOVT. UPS
WEST GARO HILLS

PROGRAM DATES
18/02/2026 TO 19/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





TIKRIKILLA GOVT. UPS
WEST GARO HILLS

PROGRAM DATES
18/02/2026 TO 19/02/2026

COMPLETION CERTIFICATE

TINKERING LAB STRENGTHENING PROGRAM 2025-26

AN INITIATIVE OF SAMAGRA SHIKSHA MEGHALAYA | IMPLEMENTED BY IIT GUWAHATI

PROJECT COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	TIKRIKILLA GOVT. UPS
District Name	WEST GARO HILLS
Participant Teacher Name	TANGKHAM D. MARAK
Teacher Contact Details	7005692180, tangkhamdazelmarak@gmail.com
SCHOOL PARTICIPATION	
Date: 18/02/2026	Date: 19/02/2026
Day 1: 30	Day 2: 25

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

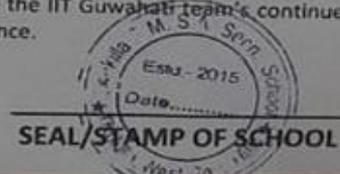
PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
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	8	Soft-Skills Training	Project Presentation by students
DAY 2	9	Theory	Revision of Day 1 - Q&A Session
	10	Theory	Electronics – Recap, Microcontroller, Sensors and It's uses
	11	Theory	Revision of AI/ML and It's modules in Scratch Coding
	12	Project	Hand Gesture Based Flappy Bird Game
	13	Project	I.V. Bag Level Monitoring and Alert System
	14	Project	Rain Detector Cloth Hanger
	15	Project	AI Pet Food Dispenser Machine
	16	Evaluation	Student Learning Assessment
	17	Showcase	Technology Congress by students

I, the undersigned, confirm that IIT Guwahati successfully conducted the 2-day Tinkering Lab training program at our school to strengthen the existing lab.

The training served as a refresher initiative for schools previously equipped with the Tinkering Lab, and included the provision of hardware and consumable kits. We appreciate the IIT Guwahati team's continued efforts in delivering an engaging and impactful hands-on learning experience.

Anindabano A. Sompta
AUTHORIZED SIGNATURE



GOVERNMENT PUBLIC SCHOOL- JOWAI
WEST JAINTIA HILLS

PROGRAM DATES
20/02/2026 TO 21/02/2026

OVERALL STATISTICS

30

No. of Students
participated

17

No. of Concepts covered

10

No. of Activities
completed

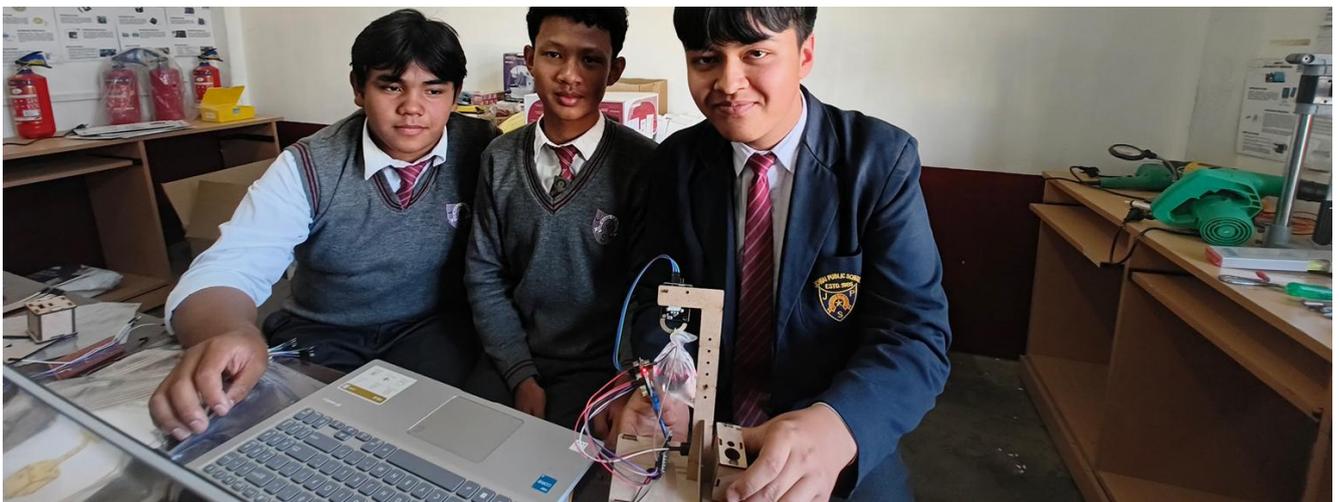
TRAINING PROGRAM



HARDWARE & CONSUMABLE KITS



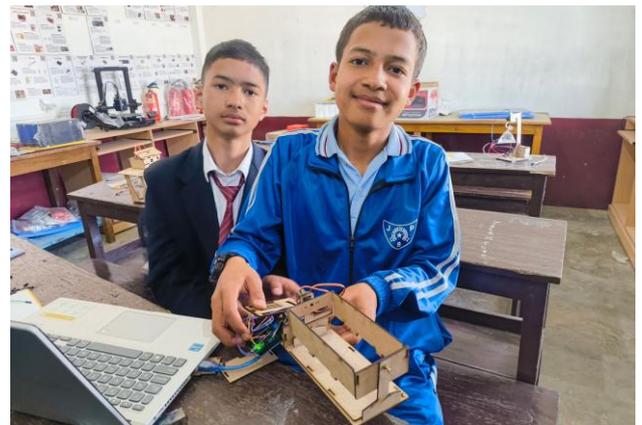
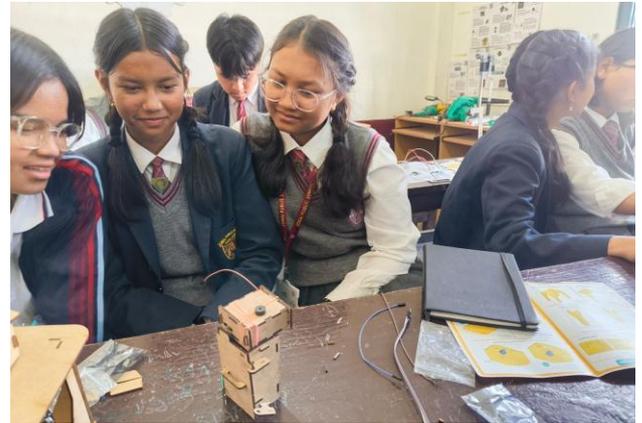
SOFT-SKILLS: PRESENTATION



GOVERNMENT PUBLIC SCHOOL- JOWAI
WEST JAINTIA HILLS

PROGRAM DATES
20/02/2026 TO 21/02/2026

HANDS-ON PROJECTS



TECHNOLOGY CONGRESS





GOVERNMENT PUBLIC SCHOOL- JOWAI
WEST JAINTIA HILLS

PROGRAM DATES
20/02/2026 TO 21/02/2026

COMPLETION CERTIFICATE

SCHOOL DETAILS	
Name of the School	GOVERNMENT PUBLIC SCHOOL- JOWAI
District Name	WEST JAINTIA HILLS
Participant Teacher Name	Nivanmi Passah
Teacher Contact Details	9615106147
SCHOOL PARTICIPATION	
Date: 20/02/2026	Date: 21/02/2026
Day 1: 19	Day 2: 24

As part of the project, the following activities were successfully conducted-

1. Student and teacher training in the school
2. Building and demonstration of innovative and advanced project models for lab activities
3. Provision of hardware and consumable kits
4. Soft-skills training - Student led project presentations
5. Organization of a Technology Congress at school-level to enhance engagement

PROGRAM DETAILS:

DAY	SL. NO.	SESSION	TOPIC DETAILS
DAY 1	1	Theory	Tinkering Lab – Recap, Materials in Lab, Innovations
	2	Theory	Scratch Coding - Recap, Uses and Exploring Coding Platform
	3	Project	Automatic Refrigerator Door Alarm - Electronic Project
	4	Project	Self-Parking Robot
	5	Project	Music Reactive RGB Light Stand
	6	Project	Split-Flap Display Character
	7	Project	Baby Cradle
	8	Soft-Skills Training	Project Presentation by students
DAY 2	9	Theory	Revision of Day 1 - Q&A Session
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Principal

Jowai Public School
AUTHORIZED SIGNATURE



SEAL/STAMP OF SCHOOL

