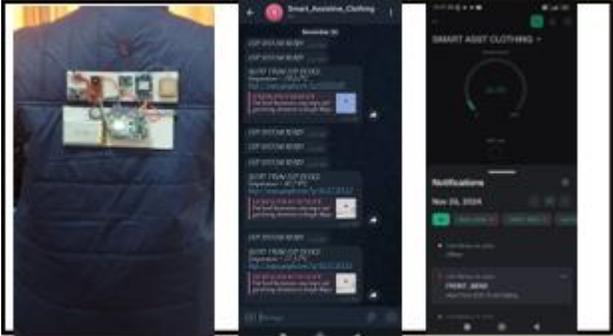


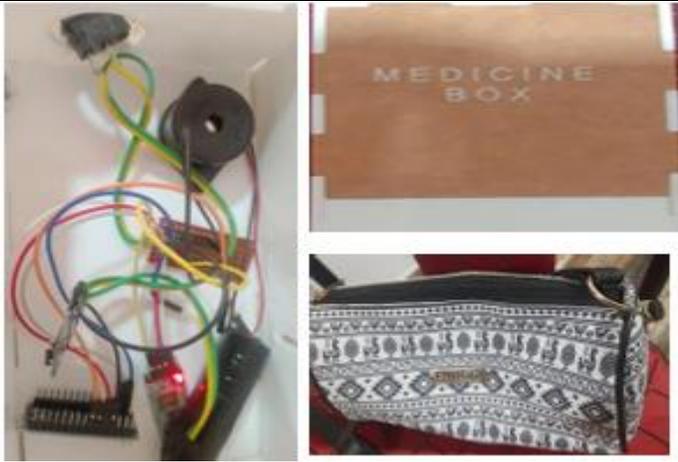
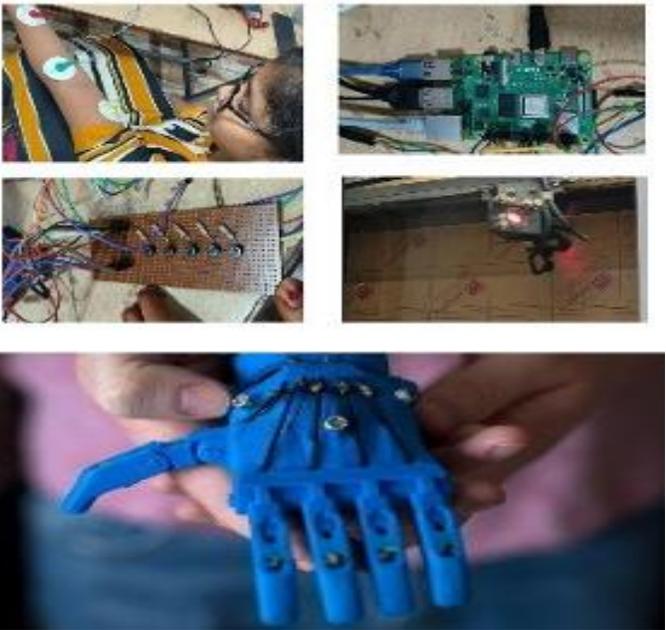
## TRAINING / RESEARCH OR ACADEMIC PROJECTS

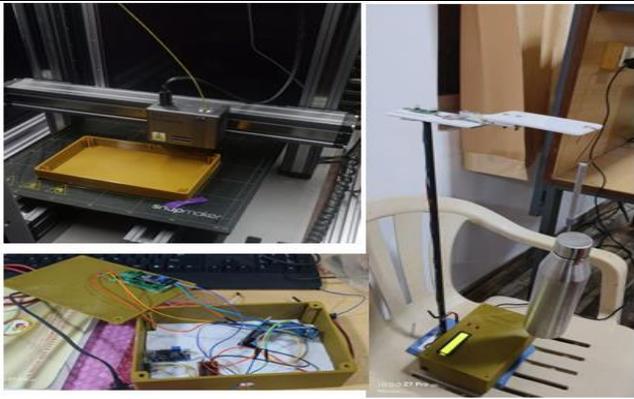
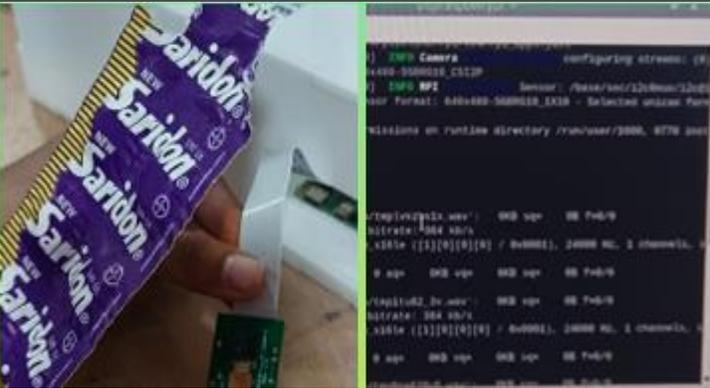
### Details of Bridge Course in ATL Lab (2024-25)

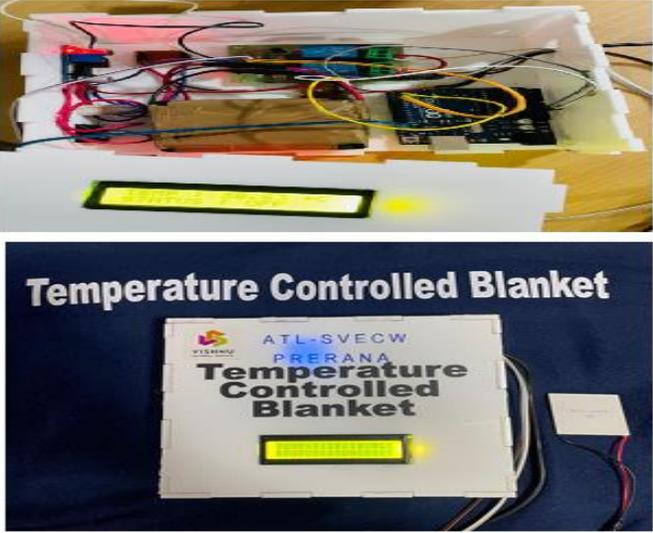
S. No.	Course	Facilitator	Department	Date	Venue
1.	About ATL	Dr. K. Padma Vasavi	ECE	11-7-2024	B-203
2.	Design Thinking and Innovation	Dr. D. Ramesh Varma	ECE	12-7-2024 13-7-2024	B-203
3.	Basics of Electronics	Mr. D. Gireesh Kumar	ECE	15-7-2024	B-203
4.	Digital Electronics	Mr. G. Challaram	ECE	16-7-2024	B-203
5.	Arduino Programming	Mrs. M. Hema Latha M. Prashanth Kumar Ch. Santhosh	ECE/ATL	18-7-2024 19-7-2024 20-7-2024	TI DSP Lab Projects Lab
6.	Actuators, Batteries and Power Management	Mr. A. Siva Mr. B. Mahendra CHand	EEE	22-7-2024 23-7-2024	
7.	CAD for Packaging 2D CAD 3D CAD	Mrs. P. Lavanya Mr. N. Rajasekhar	CE ME	24-7-2024 25-7-2024	C-319
8.	Product Development	Dr. K. Padma Vasavi	ECE	26-7-2024 27-7-2024	B--203
9.	Web Page Development	Mr.A.Nageswara Rao	CSE	29-7-2024	B--203
10.	Mobile App Development	Mr.T.Rajesh	CSE	30-7-2024	B--203

## ATL Lab Projects (2024-25)

S.No.	Project Title	Description	Prototype
1	Tactile Gloves	Gloves designed to assist visually impaired users in recognizing touch feedback.	
2	Smart Assistive Clothing	Clothing with fall detection and GPS-based alert system for elderly safety.	
3	E-Stylus	Braille writing device for visually impaired individuals using a button-operated stylus.	

<p>4</p>	<p>Vitality Visionaries – Luggage Identifier</p>	<p>Smart system for identifying personal luggage using Bluetooth and sensors.</p>	
<p>5</p>	<p>Myosync</p>	<p>Assistive muscle interaction device</p>	
<p>6</p>	<p>Auto Braille</p>	<p>Accessible way for visually impaired individuals to convert spoken words in to braille.</p>	

7	Drip Track	IoT-based monitoring system for saline levels to prevent overflow or delays.	 <p>The image shows a 3D-printed drip chamber with a yellow tray. Below it, a breadboard contains an ESP8266 microcontroller, a sensor, and various electronic components connected by jumper wires. To the right, the device is mounted on a white chair, demonstrating its use in a practical setting.</p>
8	Medicine Identifier	Visual/audio-based system for blind users to identify medicines accurately.	 <p>The image is split into two parts. On the left, a hand holds a purple blister pack of Saridon tablets. On the right, a computer screen displays a terminal window with code and system logs, including 'WiFi Camera' and 'WiFi MP2' configurations, indicating the software used for the identification system.</p>
9	Diabetic Foot Ulcer Monitoring System	Health monitoring system to detect ulcers early in diabetic patients.	 <p>The image shows a pink sock with a red sensor patch attached to the heel, used for monitoring foot health. Below the sock, a smartphone screen displays a mobile application interface with graphs and alerts. The alerts include:     <ul style="list-style-type: none"> <li>Start 4:28 PM: ALERT FROM ESP DEVICE TEMPERATURE : 82.74 *F MOISTURE : 1</li> <li>Start 4:29 PM: ALERT FROM ESP DEVICE TEMPERATURE : 83.41 *F MOISTURE : 1</li> <li>Start 5:05 PM: ALERT FROM ESP DEVICE TEMPERATURE : 83.07 *F MOISTURE : 1</li> <li>Start 5:07 PM: ALERT FROM ESP DEVICE TEMPERATURE : 82.96 *F MOISTURE : 1</li> </ul>     The date shown is November 29.</p>

<p>10</p>	<p>Smart Assistive Glasses</p>	<p>Object detection system using camera and audio output for the visually impaired.</p>	
<p>11</p>	<p>Temperature-Controlled Wearable Blanket</p>	<p>Adaptive blanket for patients with neurological or thermal regulation conditions.</p>	

## Students Benefitted Academic Year 2024-25:

ATL Project Batches-2024-25						
Batch No	Roll No	Name of the Student	Department	Name of the Batch	Project Title	Mentors
1	22B01A 0475	Jhansi Nainavarapu	ECE	Anikitos	FLEX TALK	Dr. D. Ramesh Varma Dr.G.Challa Ram
	23B05A 0419	V. Srivalli	ECE			
	22B01A 4250	K. Jyothirmai	AIML			
2	22B01A 4275	P.Gayathri	AIML	VisionForge	Smart assistive Clothing	Mr.D.Girish Kumar Dr.D.Ramesh Varma
	22B01A 4542	K. Jyoshna Manjula	AI&DS			
	22B01A 4274	N.Likhitha	AIML			
	22B01A 0211	B. Deepthi	EEE			
3	22B01A 0488	Potu Pranathi priya	ECE	Team Fit	E-Stylus	Mr.N.Rajas ekhar Dr.A.Siva
	22B01A 04B3	V.Deepthi	ECE			
4	22B01A 4224	D.Pravallika	AIML	Vitality Visionaries	Identificat ion of luggage	Ms.G.Kaly ani Mr.Mahendra Chand
	22B01A 0471	Md Rahamathunnisa	ECE			
	22B01A 4297	Shaik.Alfiya	AIML			
	22B01A 0485	Pati Priyambica	ECE			
5	22B01A 4251	K.Sai Sahithi	AIML-A	Anantah Aavishkar	Myosync	Ms.G.Kaly ani Dr. K.Padma Vasavi
	22B01A 04c0	V.Alekhyia	ECE			
	22B01A 0241	N.Hemasri	EEE			
	22B01A 0301	A.Bhavana Ratnam	MEC			
6	23B05A 0407	K.Keerthi	ECE	InnovAid	Voice to Braille	Ms.M.Hem alatha Mr.Nages wara Rao
	22B01A 0104	C.Vamsi Lakshmi Prasanna	CIVIL			
	23B05A 0405	G.Sai Sreeja	ECE			
7	22B01A 0455	K. Keerthana	ECE	Disability Disruptors	Drip Track	Mr.Nages wara Rao Mr.Rajesh
	22B01A 0457	K. Vidya Sowmika	ECE			

	22B01A 0461	M. Mouvya Sree	ECE			
	23B05A 0402	B. Jyothi Sri	ECE			
8	22B01A 0433	G. Lavanya	ECE	Believers	Medicine Identifier	Mr.Mahendra Chand Ms.M.Hemalatha
	22B01A 0413	Ch.Gnana Sri	ECE			
	22B01A 0425	G. Dhathri Gayatri	ECE			
	22B01A 0324	k. Bhargavi	MECH			
9	22B01A 04A1	Tallapenta Yasaswini	ECE	Ability Achievers	Diabetic foot ulcer monitoring system	Dr.K.Padm a Vasavi Ms.P.Lavanya
	22B01A 0205	Arava Durga sree	EEE			
	23B05A 0205	Kuppili Lavanya	EEE			
	22B01A 0462	Marri Prasanna	ECE			
10	22B01A 4539	KATAKAM LAKSHMI SANDEEPA	AI&DS- A	GALAXY GIRLS	Smart assistive glasses	Dr.G.Challa Ram Mr.D.Girish Kumar
	22B01A 0408	B.TIRUSELVI	ECE			
	23B05A 0204	K.N.S.NEHANVITHA	EEE			
	23B05A 0108	N.Y.D.RAJYALAKSHMI	CIVIL			
11	22B01A 4506	BAJINKI KOMALI	AI&DS- A	PRERANA	Temperature Controlled Wearable Blanket	Dr.A.Siva Mr.N.Rajasekhar
	22B01A 4530	GUDIMETLA VARSHINI REDDY	AI&DS- A			
	23B05A 0203	KANDUKURI LAKSHMI SRAVANI	EEE			
	22B01A 0322	K. MRUDULA VENKATA SAI SRI	MECH			

# **International Day of Persons with Disabilities – Assistive Technology Project Exhibition Day (3-12-2024)**

**Date:** 3rd December 2024

**Venue:** B-Block Seminar Hall, Department of ECE, SVECW

**Organized by:** Assistive Technology Lab (ATL), SVECW

**Chief Guest:** Dr. U.V. Ramana Raju, Managing Trustee, Centre for Visually Challenged, Bhimavaram

**Participants:** Dr. G. Srinivasa Rao (Principal, SVECW), Prof. P. Venkata Rama Raju (Vice-Principal), ATL Dean, 40 ATL Students, 12 ATL Mentors, and 2 Supporting Staff

## **Event Overview**

Shri Vishnu Engineering College for Women (SVECW) proudly hosted the Assistive Technology Project Exhibition Day on 3rd December 2024 in observance of the International Day of Persons with Disabilities. Organized by the Assistive Technology Lab (ATL) of the ECE Department, the event showcased student innovations aimed at empowering individuals with disabilities through affordable and user-friendly technological solutions.

## **Inaugural Session**

The event opened with a prayer and ceremonial lamp lighting. Dr. K. Padmavasavi, ATL Dean, welcomed the dignitaries and highlighted ATL's impact. Prof. P. Venkata Rama Raju, Vice-Principal, congratulated the teams for socially relevant innovations. Dr. G. Srinivasa Rao, Principal, SVECW, emphasized ATL's role in integrating technology with empathy.

## **Keynote Address**

Dr. U.V. Ramana Raju, Chief Guest and Managing Trustee, Centre for Visually Challenged, delivered a powerful keynote emphasizing the importance of technology in improving the quality of life for persons with disabilities. He appreciated the tangible efforts made by the ATL students.

### ATL Product Distribution:

S.No.	Project Name	Remarks
1	Trike (Scooter)	Directly Distributed to an Individual Client
2	Datura Flower (Tactile Botany Model)	Distributed to U.V. Ramana Raju Blind School
3	E-Sticks (Smart Walking Sticks)	Distributed to U.V. Ramana Raju Blind School
4	Human Heart (3D Printed Model)	Distributed to U.V. Ramana Raju Blind School

### GLIMPSES OF EVENT





Kovvada, Andhra Pradesh, India  
Block B, Kovvada, Andhra Pradesh 534206, India  
Lat 16.567732° Long 81.522364°  
03/12/24 09:29 AM GMT +05:30



Kovvada, Andhra Pradesh, India  
Block B, Kovvada, Andhra Pradesh 534206, India  
Lat 16.56793° Long 81.52234°  
03/12/24 09:30 AM GMT +05:30



Kovvada, Andhra Pradesh, India  
Block B, Kovvada, Andhra Pradesh 534206, India  
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03/12/24 09:31 AM GMT +05:30



Kovvada, Andhra Pradesh, India  
Block B, Kovvada, Andhra Pradesh 534206, India  
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Kovvada, Andhra Pradesh, India  
Block B, Kovvada, Andhra Pradesh 534206, India  
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03/12/24 10:48 AM GMT +05:30



Kovvada, Andhra Pradesh, India  
Block B, Kovvada, Andhra Pradesh 534206, India  
Lat 16.567845° Long 81.522237°  
03/12/24 11:02 AM GMT +05:30





The program ended with a vote of thanks from the ATL Coordinator, appreciating the involvement of 40 students, 12 mentors, and the support from college management. The event exemplified how engineering education can be transformed into a socially impactful journey, creating a strong foundation for empathetic and inclusive innovations.

## ATL 2024-25 Outcomes

The Department of ECE at S.R.K.R. Engineering College hosted its flagship tech fest, TRANCE-2K25, on February 15, 2025. The event featured a dynamic blend of technical innovation and creative expression through segments like T-Techathon, Art Spark, NexGen, Caliber Clash, and more. Students showcased exceptional skills in coding, gaming, quizzes, art, and IoT. Among the highlights, Jhansi Nainavarapu (22B01A0475) earned First Prize in the T-Techathon, demonstrating the project FLEX-TALK for her outstanding problem-solving and programming abilities.

