

A Report
One week SDP on
“Campus to Industry: Kickstart your IoT Journey”
From 28/04/2025 to 02/05/2025

The Embedded & IoT club under the Research Group NEIoN-Dept of ECE successfully conducted a week workshop on "Campus to Industry: Kickstart your IoT Journey" for III B.Tech students from 28th April 2025 to 02nd April 2025. The primary aim of the workshop was to bridge the gap between academic knowledge and industry requirements in the field of Internet of Things (IoT). It sought to equip students with practical skills, hands-on experience, and industry-relevant insights to effectively prepare them for a career in IoT technologies.

The students received practical training in **Python programming, Machine Learning (ML) and Deep Learning (DL) fundamentals**, and hands-on experience with **Arduino** development. They also learned to utilize **VS Code** as an integrated development environment and explored circuit simulation using **Wokwi**. This comprehensive exposure enabled the students to build, simulate, and deploy IoT projects efficiently, equipping them with the necessary skills to meet industry standards and innovate in real-world IoT scenarios.

Totally 44 students batches participated in the workshop and it was organized in association with the **IETE Student Forum (ISF)**.

Dr. Ravi Bolimera, Dr. SK Fairouz ,Mr.K.Rambabu, Mr. Nitesh Gaikwad, Ms. Kiranmayee, Ms.K.Shiva Prasanna and Ms.Shetty Sravanthi worked as Faculty Coordinators for this workshop.

Day-1 (28 April 2025) INAUGURATION (9:45 am to 11 am):

The workshop was inaugurated by Director, Dean-School of Engineering, and ECE-Head at the ECE seminar hall from 9:45 am to 11 am.

NALLA NARASIMHA REDDY
Education Society's Group of Institutions-Integrated Campus
(Approved by AICTE & PCI, New Delhi & Affiliated to JNTUH, Accredited by NAAC with A+ Grade)
Chowdariguda (V), Korremula 'X' Road, Ghatkesar (M), Medchal-Malkajgiri (D), Hyderabad - 500088, Telangana.
(UGC AUTONOMOUS INSTITUTION)

Department of Electronics & Communication Engineering
NNRG Embedded & IoT Club
In association with IIC, ISTE & IETE Student forum (ISF)
Organizes
A Five Day
Student Development Programme
on

Campus to Industry: Kickstart your IoT Journey
Date: 28th April - 02nd May 2025

Chief Patron Shri Nalla Narasimha Reddy <i>Chairman</i>	Patron Dr. C.V. Krishna Reddy <i>Director</i>	Co-Patron Mr. Nalla Prashanth Reddy <i>Vice-Chairman</i>	Co-Patron Dr. G. Janardhana Raju <i>Dean - SoE</i>	Convener Dr. B. Ravi <i>HoD - ECE</i>	Co-Conveners Dr. Sk. Fairouz Mr. Nitesh Gaikwad	Co-ordinators Mrs. Sravanthi Shetty Mrs. K. Shiva Prasanna Mrs. P. Kiranmayee
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Venue: Seminar Hall

Day-1 Forenoon (11:15am to 12:50pm):

The workshop started from forenoon session 2 in which **Mr. K. Rambabu** delivered the lecture on **“Introduction to Python”** and related concepts. The afternoon session is followed by hands-on training on python programming.



Mr. K. Rambabu, Assistant Professor as resource person delivered concepts of **“ Python programming”**

Day 1-Session:2

The Hands-on Session on **Embedded and IoT- installation of Python, Arudino, Wokwi** tools to provide a practical learning experience by **Mr.K.Rambabu, Ms.K.Shiva Prasanna and Ms.Shetty Sruvanthi**.



**III SDP Day-1
Embedded and IoT Club
Session-2 Hands-on:Mr.K.Rambabu,Ms.S.Sruvanthi,Ms.K.Shiva Prasanna**



Day2-Session 1:

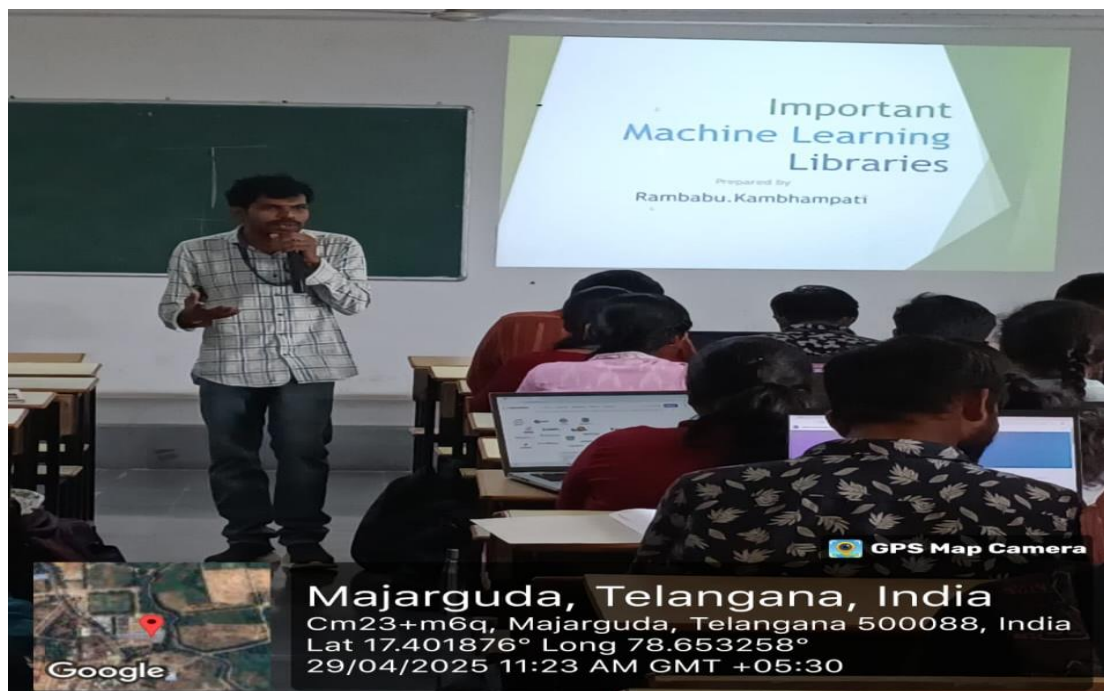
In the morning session, **Dr. Ravi Bolimera** handled the theoretical session on "**Introduction to ML/DL Concepts**", students will learn patterns from data and make decisions or predictions without being explicitly programmed and ability to apply ML?DL techniques to real world problems followed by practical sessions in the afternoon.



Dr. Ravi Bolimera, HoD of ECE, as a resource person delivered the concept of ML/DL.

Day 2-Session:2

In the session 2 , **Mr. K. Rambabu** handled practical session on “**ML/DL Algorithms**”, students will get knowledge of how to build , train and evaluate ML/DL models and hands on experience with tools.



Mr. K. Rambabu, Assistant Professor as resource person delivered concepts of “ ML?DL Algorithms”



Mr.K.Rambabu , Assistant Professor ,Hands on Session on **Embedded and Iot using ML/DL Algorithms**

Day-3-Session 1

In the session 1 , **Dr Sk. Fairooz** handled the theoretical session on "**Introduction to Industry IoT Journey**" , students will work on real world projects , developing problem-solving skills and creativity. Student will understand how IoT is applied in various industries and domain followed by practical sessions in the afternoon.



Dr. SK. Fairooz, Associate professor, as a resource person delivered the concept of Industry to IoT.

Day-3- Session 2

In the session 2, Mr.K.Rambabu, Mr. Nitesh Gaikwad, Ms. Kiranmayee and Ms.Shetty Sruvanthi. handled practical session on “Arduino & Vscode”, students will develop practical skills in programming and project development, preparing them for careers in embedded system, IoT and related



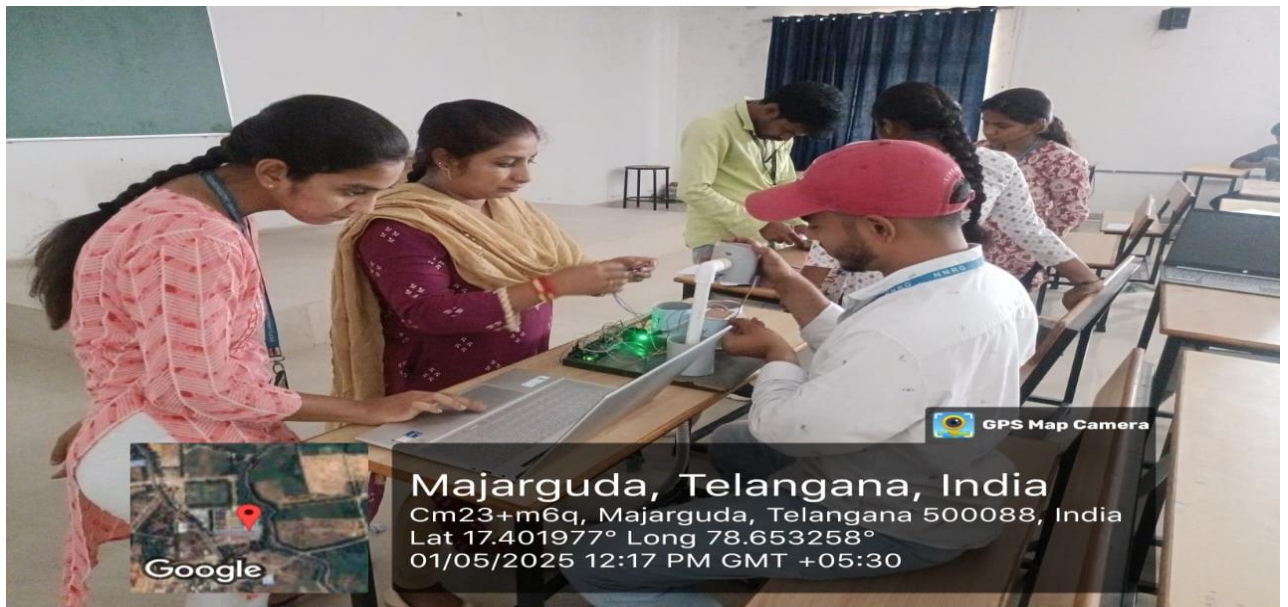
fields.

Hands on Session on “Arduino & Vscode” by Embedded and Iot team NEIoN.

Day-4 Session1& Session 2 :

In the morning& afternoon session, Hands on mini project implementation by Embedded and Iot team NEIoN





Hands on Session on “mini project implementation” by Embedded and Iot team NEIoN.

Day 4-Session3:

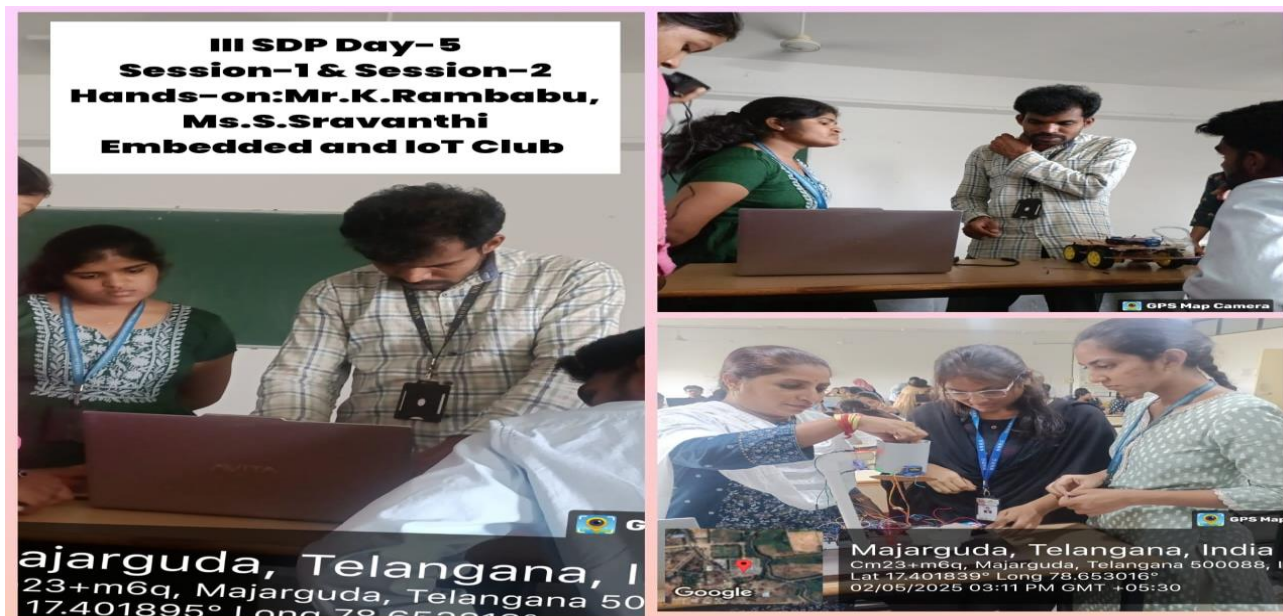
Afternoon session involved a project based presentation on Embedded IoT, where participant showcased their hands on projects and innovation in the field organized by PRC comitee- Dr. V. Sravan Kumar , Dr. SK Fairouz & Dr. P Ashok Kumar .



Dr. V. Sravan Kumar is offering insightful guidance and constructive inputs to the students

Day 5-Session1 & Session2 :

In the morning & afternoon session, Hands on mini project implementation by Embedded and Iot team NIEoN



Hands on Session on “mini project implementation” by Embedded and Iot team NIEoN.

PROJECT COMPLETION MILESTONE

The team has successfully completed the SDP (Student Development Project) on “Campus to Industry: Kickstart your IoT Journey” for III B.Tech students from 28th April 2025 to 02nd April 2025 demonstrating their skills and expertise in designing and implementing innovative IoT solutions.



NIEoN SPoC

HoD-ECE