

**GSSS**GEETHA SHISHU
SHIKSHANA SANGHA (R)**INSTITUTE OF ENGINEERING
AND TECHNOLOGY FOR WOMEN***(Affiliated to Visvesvaraya Technological University, Belagavi. Approved by AICTE New Delhi & Govt. of Karnataka)***KRS ROAD, METAGALLI | MYSURU - 570 016 | KARNATAKA | INDIA****Phone : 0821 - 2581304,4257304 / 2977306 Fax : 0821 - 2581305 Email : gsssengg@gmail.com, principal@gsss.edu.in Web : www.geethashishu.in**

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

NI LabVIEW Academy School (NI LAS)

NI LabVIEW Academy is an educational initiative developed by National Instruments (NI) to help engineering students and faculty learn **LabVIEW (Laboratory Virtual Instrument Engineering Workbench)**, a graphical programming platform widely used for test, measurement, automation, control systems, and data acquisition applications.

Objectives of NI LabVIEW Academy

- Bridge the gap between **academic learning and industry requirements**.
- Provide hands-on training in virtual instrumentation and automation.
- Develop practical skills in measurement, control, and embedded systems.

National Instruments (NI) has recognized GSSS Institute of Engineering and Technology for Women, Mysuru as authorized **NI LabVIEW Academy School**. Dr. Rajendra R Patil, Professor and Head of the Department of Electronics & Communication Engineering received the award at Chennai, Tamil Nadu on 4th December 2017 in the presence of NI and NI alliance partners. **GSSSIETW** is one among the 10 institutions to open the **LabVIEW ACADEMY SCHOOL (LAS)** in Karnataka.

NI LabVIEW Academy School is regularly organizing various internships, FDP's & hands on workshop for students & faculties of various engineering colleges. UG, PG and Research Scholars have also utilized the facilities in this lab for implementation of Academic projects and research.

Equipments under NI LabVIEW Academy

NI LAB VIEW licensed Software 2021- 10 Nos; 2016 Version- 25 Nos

LAB VIEW Trainer kits: NI My RIO -2 No's, NI My DAQ – 10 No's, NI My RIO Embedded kit – 01 No, NI My RIO – Mechtronics kit – 01 No, NI My RIO Starter kit – 01 No. Wireless Communication Kits : System MIMT Teaching Bundle, 2x USRP-2901, Cables, Courseware-1 No, 144 MHZ, and 400MHZ and 1200MHZ Tri-band 7-inch Vertical antenna – 8 No's, Dual

Band 2.4GHZ – 2.48GHZ and 4.9 – 5.9GHZ Vertical Antenna, 3dBi Gain – 8 No’s, Vert 900 824-960 MHZ, 1710-1990 MHZ Dual-band Cellular and ISM Vertical Antenna – 8 No’s.

Equipment purchased From AICTE – MODROB - NI USRP-2944, 8-Channel Clock Distribution Accessory with GPSDO; PCIE – MXI Express Interface Kit for USRP RIO.

List of Activities Conducted under NILabVIEW Academy School

2025-2026			
Sl. No.	Details of Activities	Date/Duration	Participants
1	2 Final year projects based on LabVIEW/SDR	11/10/2025–30/4/2026	7 students
2024-2025			
Sl. No.	Details of Activities	Date/Duration	Participants
1	3 Final year projects based on LabVIEW/SDR	1/10/2024–30/6/2025	11 students
2023-2024			
Sl. No.	Details of Activities	Date/Duration	Participants
1	Four weeks Internship on “Exploring Image Processing and Wireless Communication Concepts using LabVIEW with SDR”	1/08/2023- 9/09/2023	28 students
2	Design of Wireless Communication System using Software Defined Radio (SDR)	02/11/2023- 16/11/2023	40 students
3	One Final Year Project based on LabVIEW	1/10/2023–30/6/2024	4 students
4	One Research Scholar (Ms Vanitha) research using the SDRs	1/8/2023–1/5/2024	1 PhD Student
2022-2023			
Sl. No.	Details of Activities	Date/Duration	Participants
1	Five Days FDP on “Realization of 2x2 MIMO System on SDR using Graphical System Design”	06/09/2022-10/09/2022	21faculties
2	Four weeksInternship on “Communication Course using NI LabVIEW and Software Defined Radio”	22/08/2022-17/09/2022	42 students

3	One Final Year Project based on LabVIEW and USRP	1/10/2022–30/6/2023	4 students
4	One Research Scholar (Ms Vanitha) research using the SDRs	1/10/2022–1/7/2023	1 PhD Student
5	Ability Enhancement lab – LabVIEW Basics	31/10/2022 – 01/04/2023	196 students
	Ability Enhancement lab – DAQ using myDAQ	17/05/2023 –16/09/2023	
2021-2022			
Sl. No.	Details of Activities	Date/Duration	Participants
1	Five Days Online Workshop on “Core 1 and 2 using NI LabVIEW (Module 1)”	30/08/2021- 3/09/2021	62 students
2	Four weeks Online Internship on “Communication Course using NI LabVIEW and Software Defined Radio”	30/08/2021- 24/09/2021	37 students
3	Five Final Year Project based on LabVIEW and USRP	1/10/2021–30/7/2022	20 students
4	One Mini Project based on LabVIEW and USRP	1/10/2021–1/2/2022	1 M.Tech Student
5	A Seminar on “Awareness on LabVIEW Software”	12/04/2022	145 students
2020-2021			
Sl. No.	Details of Activities	Date/Duration	Participants
1	One week Online FDP on “Hands-on Introduction to NI LabVIEW”	20/07/2020- 27/07/2020	16 Engg College Faculties
2	Four weeks Online Internship on “Communication Course using NI LabVIEW Software Defined Radio”	10/08/2020- 4/09/2020	37 students
3	Two Final Year Project based on LabVIEW	1/10/2020–30/7/2021	7 students
4	One day training on “NI USRP 2944 for Implementing 2X2 MIMO Systems”	9/03/2021	15 Faculties and 5 PG students
2019-2020			
Sl. No.	Details of Activities	Date/Duration	Participants
1	5 days skill development workshop on Data Acquisition Systems myDAQ- Module 2	07/1/2020- 11/01/2020	40 students

2	Seminar on NI LabVIEW Awareness for III Sem ECE students	28/11/2019	130 students
3	Three Final Year Projects based on LabVIEW using myRIO and myDAQ	1/8/2019–30/5/2020	12 students
4	Two Final year Seminar on LabVIEW	1/2/2020 –30/5/2020	2 students
5	One week Online FDP on "Hands-on Introduction to NI LabVIEW"	21/07/2020 – 27/07/2020	16 Faculties
2018-2019			
Sl. No.	Details of Activities	Date/Duration	Participants
1	5 days skill development workshop on NI LabVIEW Module 1	28/1/2019- 01/02/2019	88 students
2	Summer Internship on IoT	10/7/2019-31/7/2019	52 students
3	Five Final Year Projects based on Communication using NI USRP	1/8/2018 –31/5/2019	20 students
4	Seminar on NI LabVIEW Awareness for III Sem ECE students	12/9/2018-17/9/2018	130 students
2017-2018			
Sl. No.	Details of Activities	Date/Duration	Participants
1	Workshop on 5 Modules of LabVIEW	3/2/2017 - 31/7/2018	8 Faculties and 25 students

List of Projects completed under NI LabVIEW during 2024-2025

Sl. No.	USN	Name of the Students	Project Title
1.	4GW21EC040	Dakshitha P L	Real Time Design and Implementation of four way Traffic Light Control System using NI LabView
	4GW21EC041	Deeksha D	
	4GW21EC035	Chandana K L	
2.	4GW21EC061	Kannika M Mallu	Design And Implementation Of QAM Method Using LABVIEW And SDR
	4GW21EC096	Nisarga N M	
	4GW21EC098	Nithya S Aradhya	
	4GW21EC108	Punarvi V	

3.	4GW21EC151	Srushti D A	Image Steganography using NI LabView and SDR for Secure Communication
	4GW21EC119	Reddy Sushma	
	4GW21EC142	Sinchana H C	
	4GW21EC127	Sangeetha T	

List of Projects completed under NI LabVIEW during 2023-24

Sl. No.	Name of Student	Project Title
1	Sri Harshitha P Srijana Srujana M Yashashwini S	Leaf disease detection using LabVIEW IMAQ vision

List of Projects completed under NI LabVIEW during 2022-23

SI No.	Students Name	USN	Project Title
1	Nanditha N	4GW19EC077	Audio Transmission over SDR/ Cognitive radio using USRP and LabVIEW for disaster response.
	Navya H M	4GW19EC078	
	Poornima S	4GW19EC092	
	Rachana K S	4GW17EC113	



NI LabVIEW Academy School
Deshika Technology Research Institute
Welcomes you to the Internship
on
"Communication Course using NI LabVIEW
Software and Software Defined Radio"

