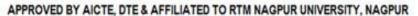
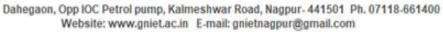


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List of Activities under MoUs during the year 2019-20

Sr. No	Name of the MoU / Collaboration / linkage	Name of the Department	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage	List the actual activities under each MOU
1	Prolific Systems & Technologies Pvt. Ltd.	Electrical Engineering	2018-19	3 Year	7 day Workshop
2	Embedded Creations Educational Wing of RM group of companies	Electronics & Telecommunication Engineering	2018-19	3 Year	Hands on workshop



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NOTICE

All the students of IV/VI/VIII semester are hereby informed that workshop (PLC & SCADA) Prolific at Nagpur is scheduled on 10/03/2020-17/03/2020. The students are present for the 7-Day workshop.

Workshop is compulsory for all students in IVRW subject. The schedule is given below

Date	Scheduled of Workshop
10/03/2020-17/03/2020	IV/VI/VIII Semester

It is compulsory to all Semester students to be present for Workshop.

Prof. R.M. Bhombe H.O.D



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Department Of Electrical Engineering Session.2019-20

Date: 11/02/2018

REPORT ON WORKSHOP

Department of Electrical Engineering organized a workshop on "Industrial Automation" (PLC& SCADA) for students of IV, VI and VIII-Sem (EE) on 10/03/2020 to 17/03/2020 in the Seminar Hall, T-2 Building GNIT, Nagpur. Seminar was presented by Mr. Sarang Thakre, M/S Prolific System & Technologies Pvt. Ltd, Nagpur.

Mr. Sarang Thakre introduced students about "PLC & SCADA". He briefly explained the components, architecture, working, benefits and scope of PLC SCADA automation and mainly focused on following topics from the undergraduate student point of view.

- Need and importance of automation
- Need of PLC
- Reputed companies working with PLC
- Real time application of PLC
- SCADA system and object
- DCS (Distributed Control System)
- Advantage of automation

PLC (Programmable Logic Controllers) are integral part of factory automation and industrial process control. Applications of PLCs are from simple lighting to chemical processing plants. Now a day's automation system contains PLCs and SCADA (Supervisory Control and Data Acquisition) software. The combination offers better monitoring and control of the plant. PLC and SCADA are important tools of Automation industry. Professionally trained candidates in PLC and SCADA have better job prospects as it is the most desired requirement of industry.

About 39 students attended the seminar. Faculties of Electrical department were present in the seminar. Students were grateful to the department for organising the seminar from which they could acquire knowledge of PLC SCADA Automation. The seminar was co-ordinated by Prof. Akshay Pillewan.



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Figure 1 Certificate distribution by staff



Prof. Akshay Pillewan Workshop Co-ordinator Prof. R. M. Bhombe Vice principal & HOD EE

> Guru Nanak Institute of Engineering & Technology Nagpar- 441501



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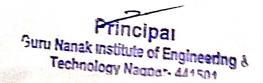
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Attendance

	Attendance	
- Sr.No.	Name of Students	
1	Babli Gemraj Nandanwar	(Pymeyon
2	Dipali Shamrao Surjagade	Bipali
3	Ganesh Ashokrao Burile	and
4	Gyanesh Chandrashekhar Deshmukh	(Deshard
5	Ritik Rajeshwar Gedam	L. R. Cyude
6	Shraddha Shobhelal Samrit	Sheaddha
7	Siddhant Ashok Dongare	S. A. Omgree
8	Sonali Dhiwaru Chalakh	The
9	Sumit Kailash Kathe	1 Sham
10	Surendra Raju Kasdekar	Zurenting
11	Kalyani Sambhaji Wankhede	Buch
. 12	Sneha Dnyaneshwar Shete	· Chelet
13	Ramteke Simran Robin	Simpon
14	Tabhane Priya Dharmadas	Parmader
15	Aashwini Vinodsingh Thakur	1 Anker
16	Ab, Rahil Ab. Rafiq Sheikh	N Stelon
17	Abhijeet Jivan Naitam	Mouthan
18	Achal Parimallal Thakur	Affolis
19	Aditi Rajendra Rane	<u> </u>
20	Ajay Rahul Walde	Realide
21	Akanksha Siddharth Meshram	S. Meshrom
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25	Akshay Ashok Masle	ANALIS .
26	Amol Abhimanyu Patil	A & Pertil
27	Anjali Ganesh Chhaparghare	AG Ghuph
28	Aashwini Vinodsingh Thakur	Antimie V
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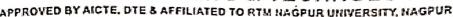
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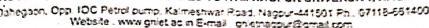


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Prof. R.M.Bhombe

HOD EE



ENGINEERING & TECHNOLOGY GURU NANAK INSTITUTE OF



Workshop

"HANDS ON WORKSHOP ON EMBEDDED SYSTEM"

Electronics and Telecommunication Department of Organized by

Auditorium

Venue: T2

Engg. in association with R&D Cell, GNIET

Prof. Sucheta Raut

Prof, D. Deshpande Co ordinator

> 05/05/2020 Time Date

HOD, ETC, GNIET

Dr. S. Srivastava Principal GNIET

Engineering & Technology Guru Nanak Institute of Nagpur-441501 Principal



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Invitation Letter

To,
Mr. Deny Bobade
General Manager
Embedded creation Nagpur

01/05/2020

Dear sir

GNIET, Nagpur established in 2007 by GNES society is one of the top Engineering Colleges affiliated to RTMNU, Nagpur, approved by All India Council for Technical Education, New Delhi and Director of Technical Education, Maharashtra, accredited by National Assessment and Accreditation Council and certified by ISO.GNIET offers best quality technical education to produced skilled technical manpower meeting international standards and global requirements ensuring optimal utilization of available resources. We are committed to nurture the required expertise under one roof by creating competent and motivated technocrats and managers of tomorrow, who will use their technical knowledge and managerial qualities to confidently and successfully lead the organization.

It's my pleasure to inform you that, Electronica and Telecommunication Department in collaboration with, Research and Development Cell and Institute Innovation Council, GNIET is organizing One Day workshop on Hands on workshop on Embedded System. We are delighted to invite you to conduct technical session during this visit to enlighten our faculty members and students with your valuable knowledge of Embedded Technology..

We hope you will accept our request for this invitation and help our faculties and students to gather knowledge about Embedded Design& application in Electronics Engineering.

Following are the details of your schedule.

Topic of workshop:Hands on workshop on Embedded System

Date: -05/05/2020

Time: -10.00 am onwards

Thank & Regards,

Principal, GNIET Nagpur



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Department of Electronics and Telecommunication Engineering

Session 2019-20

Date:-04/05/2020

NOTICE

All the Students of GNIET (ETC, CSE, EE) are here by informed that the Department of Electronics and Telecommunication Engineering is organizing a one day online workshop on "Hands on workshop on Embedded System" on 05/05/2019 at 10.00 a.m.

So it is mandatory for students to attend the same.

Venue: T2 Auditorium Hall, GNIET, Nagpur

Time 10.00 am

Prof. Deepak Deshpande

Co ordinator

Principal

Prof. Sucheta Raut

HOD,ETC

Copy to (information):-

1. Hon. Chairman, GNES

2. Hon. Principal, GNIET

3. Vice. Principal, GNIET

4. All HOD'S in various Department of GNIET



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Academic Year 2019-20-

Report on

Hands on workshop on Embedded system

Date: 05/05/2020

Activity under MOU signed between Embedded Creations & GNIET

Resource person: Mr. Deny Bobade, Director, Embedded Creations, Nagpur

Co-ordinator: Mr. Deepak Deshpande, Asst. Professor, ETC, Nagpur

Duration: One Day

Hands-on experience with embedded systems can yield several objective outcomes, including:

Programming Skills: Improved proficiency in programming languages commonly used in embedded systems development, such as C, C++, or Python.

Hardware Understanding: Better understanding of microcontrollers, sensors, actuators, and other hardware components commonly used in embedded systems.

Interfacing Knowledge: Ability to interface peripherals and devices with microcontrollers, such as UART, SPI, I2C, GPIO, etc.

Real-time Systems Understanding: Understanding of real-time constraints and considerations in embedded systems development, such as timing, interrupts, and multitasking.

Debugging Skills: Enhanced ability to debug embedded systems issues using tools like oscilloscopes, logic analyzers, and debuggers.

Prototyping Proficiency: Skill in designing and prototyping embedded systems solutions to solve real-world problems.

Project Management: Experience in managing embedded systems projects, including requirements gathering, design, implementation, testing, and deployment.

Documentation and Reporting: Ability to document the design, implementation, and testing processes effectively, as well as to report findings and results clearly.

Integration Skills: Knowledge of integrating different hardware and software components into a cohesive embedded system solution.

Optimization Techniques: Understanding of optimization techniques for embedded systems, including power optimization, memory optimization, and performance optimization.

About workshop:

The six day intensive workshop on embedded systems conducted by ,Embedded Creations,Nagpur to involve students in a cohesive drive with the academia and industry towards excellence in embedded systems technology. This workshop is an attempt to cover material relevant to giving students necessary knowledge and skill set to appreciate

the rapid changing scenario in embedded systems and take advantage of this in furthering their career. Practical/laboratory sessions are held, which will supplement the knowledge disseminated during the lecture sessions with adequate hands on experience.

Skills Gained

After completing this workshop, students are able to:

- Target and optimize 8 bit microcontrollers by using Embedded C and assembly language Target and optimize 8 bit PIC by using Embedded C
- Create and manage designs by using the Keil software design environment Interface external peripherals such as motor driver, keypad, LCD etc

Course content:

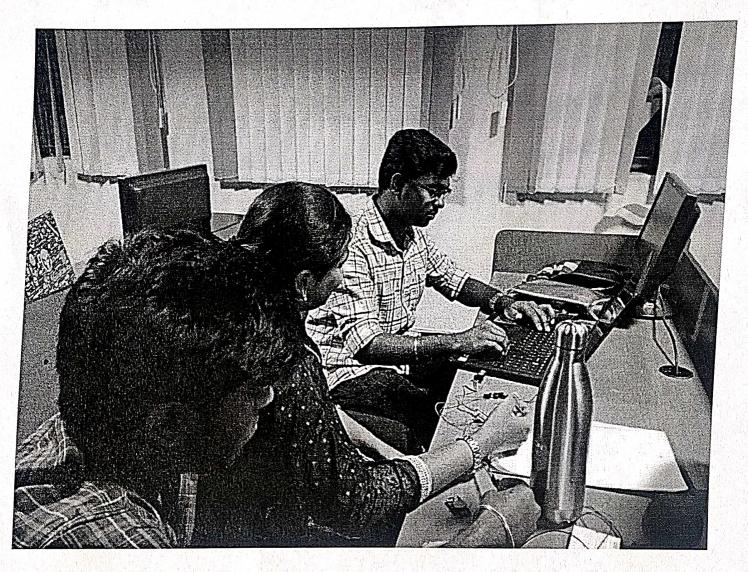
Micro-controller design using C:

- 1) Pin Diagram, Block Diagram 8051, Timing and Clock, Reset circuit
- 2) Memory Architecture
- 3) Addressing Modes
- 4) LED interfacing, Multiplexing 7-segment Display
- 5) Keypad Scanning without interrupt
- 6) Timer, Counter and serial communication
- 7) LCD interfacing,
- 8) UART and RS232 Interfacing

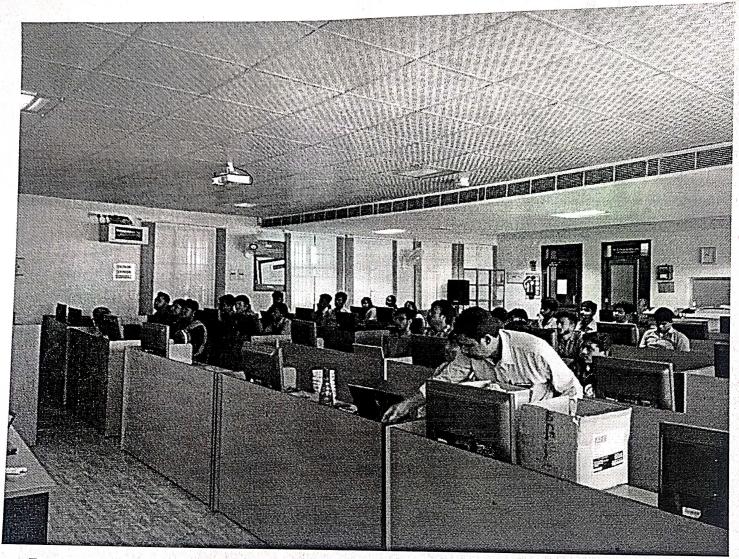
ARM [Advanced Risk Machine]

- 1) Features in RISC Architecture: From hardware Point of view.
- 2) ARM Processor architecture
- 3) ARM Organization and implementation,
- 4) 3-Stage Pipeline, ARM Organization, Memory format, Memory Management,
- 5) Use of ARM based IDE Project creation, Compilation, Debugging,
- 6) Downloading code hex file into the ARM based Philips microcontrollers
- 7) Use of port and serial interface provided into the chip

- 8) ARM processor core ARM7TDMI
- 9) Instruction set, Interfacing of LED
- 10) Interfacing LCD, Timer, serial communication, RTC, Interrupt



Students attending the workshop on Embedded technology on 05/05/2020 at GNIET



Participants of workshop Hands on workshop on Embedded System on 05/05/2020 at GNIET

Prof. Deepak Deshpande Co ordinator

Prof. Sucheta Raut HOD,ETC

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ATTENDANCE SHEET 2019-20

Date: 05 | 05 |

Name of seminar/workshop:

Hands on workshop on Embedded System,

Sr no.	Name of student	Signature
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14	AJINKYA RAMESHWAR KOTHE	Atrondey 4
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Websile: www.gniet.ac.nie.mai: onletnacuricgmai.com

Website . www.gniet ac at E-mail : gnietnagour@gmail.com



ATTENDANCE SHEET 2019-20

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