Department of Electrical and Electronics Engineering

Report on Domain Specific Traning on Embedded Systems conducted by Innovaskills Technologies, Pvt. Ltd. Bengaluru

About The Company

Innovaskill Technologies is a global training company that provides tailor-fit courses to suit individual customer's requirements with our Industry Ready Learning Management System. Our training and development programs will help you learn and acquire new skills and gain the professional knowledge required to progress in your career.

Innovaskill offers a vast array of practical & job-oriented domain-specific courses, be IT software development, Electronic Design Automation, Industrial Automation, Information & Network Security, Mechanical & Civil Design, Solar Installation, Digital Marketing, and many more Professional courses which are specifically designed to suit the needs of the industry and also helps you to become an entrepreneur.

Technical Training/Course Conducted:

The hands-on training on Embedded Systems for students was provided for a period of a Full semester (100 hours training program- Blended mode) in Premises of Department of Electrical & Electronics Engineering, ATMECE, Domain Specific Training was Conducted by Mr. Ravi & Team member of Innovaskill Technologies, Bengaluru, using their own training modules/accessories.
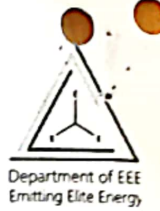
Academic Year:	2021-22
Semester: Even	VI Semester
Domain Specific Training conducted	Embedded Systems — Level 1 & 2
Total Student Trained/Class strength:	30

HOD

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Enclosed: Supporting Documents of Technical Training Conducted.

ATME COLLEGE OF ENGINEERING

13th Kilometer, Mysore-Kanakapura-Bangalore Road, Mysore – 570 028   P : 0821-2593335 F: 0821-2593328
Email: info@atme.in, Web : www.atme.in

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Department of Electrical and Electronics Engineering

Assessment Marks

Course: DST- Embedded Systems

AY: 2021-22

Semester: VI

Sl. No	USN	Name	Total Marks	Assessment 1	Assessment 2	Assessment 3	Average
1	4AD19EE001	ANUSHA D	100	70	80	75	75
2	4AD19EE004	CHANDANKUMAR B V	100	80	70	71	74
3	4AD19EE005	CHANDAN M	100	75	75	78	76
4	4AD19EE006	SAHANA K M	100	80	85	65	77
5	4AD19EE007	KAVYA G	100	75	70	52	66
6	4AD18EE009	MOHAMMED ISMAIL	100	65	70	68	68
7	4AD19EE008	MEGHANA M	100	80	90	80	83
8	4AD19EE011	PRUTHVI RAJ K	100	75	70	69	71
9	4AD19EE015	SANJANA P	100	75	70	62	69
10	4AD19EE020	USHA C M	100	60	75	47	61
11	4AD19EE022	VARSHITHA K P	100	60	70	46	59
12	4AD20EE401	ARJUN H V	100	70	80	56	69
13	4AD20EE403	DHANUSH N S	100	70	75	64	70
14	4AD20EE404	GANGADHAR M	100	70	80	61	70
15	4AD20EE405	HEMANTH C	100	70	70	60	67
16	4AD20EE408	MADAN N B	100	70	75	68	71
17	4AD20EE411	MANOJ KUMARA S	100	85	90	77	84
18	4AD20EE414	PALLAVI K	100	60	70	51	60
19	4AD20EE415	PRAJWAL	100	60	70	59	63
20	4AD20EE416	PRASANNA	100	70	70	64	68
21	4AD20EE419	RAVINDRA M S	100	75	80	74	76
22	4AD20EE420	SAMPATH KUMAR G	100	80	70	71	74
23	4AD20EE421	SANJEEV KUMAR T K	100	75	75	65	72
24	4AD20EE423	SUCHETH KUMAR M	100	70	80	68	73
25	4AD20EE425	SUKRUTHI S	100	60	70	48	59
26	4AD20EE427	SYED SHAHID	100	75	80	65	73
27	4AD20EE428	VISHWANATH M S	100	80	70	59	70
28	4AD20EE429	YASHEER PASHA	100	70	75	60	68
29	4AD20EE430	YASHWANTH M	100	65	75	62	67
30	4AD20EE431	NASHRA FATHIMA	100	70	80	72	74

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A T M E
College of Engineering

Department of Electrical and Electronics Engineering
Attendance Status

Course: DST- Embedded Systems
AY: 2021-22
Semester: VI

Sl. No.	USN	Student Name	Status in %
1	4AD19EE001	ANUSHA D	93
2	4AD19EE004	CHANDANKUMAR B V	93
3	4AD19EE005	CHANDAN M	93
4	4AD19EE006	SAHANA K M	100
5	4AD19EE007	KAVYA G	100
6	4AD18EE009	MOHAMMED ISMAIL	100
7	4AD19EE008	MEGHANA M	100
8	4AD19EE011	PRUTHVI RAJ K	93
9	4AD19EE015	SANJANA P	93
10	4AD19EE020	USHA C M	93
11	4AD19EE022	VARSHITHA K P	93
12	4AD20EE401	ARJUN H V	93
13	4AD20EE403	DHANUSH N S	93
14	4AD20EE404	GANGADHAR M	86
15	4AD20EE405	HEMANTH C	93
16	4AD20EE408	MADAN N B	93
17	4AD20EE411	MANOJ KUMARA S	100
18	4AD20EE414	PALLAVI K	93
19	4AD20EE415	PRAJWAL	86
20	4AD20EE416	PRASANNA	100
21	4AD20EE419	RAVINDRA M S	100
22	4AD20EE420	SAMPATH KUMAR G	100
23	4AD20EE421	SANJEEV KUMAR T K	86
24	4AD20EE423	SUCHETH KUMAR M	93
25	4AD20EE425	SUKRUTHI S	86
26	4AD20EE427	SYED SHAHID	93
27	4AD20EE428	VISHWANATH M S	86
28	4AD20EE429	YASHEER PASHA	86
29	4AD20EE430	YASHWANTH M	93
30	4AD20EE431	NASHRA FATHIMA	86

Department of Electrical and Electronics Engineering

Student Feedback on Domain Specific Training- Embedded Systems
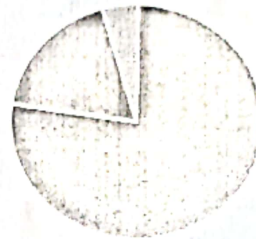
Academic Year: 2021-22

Semester : VI

Service Provider: Innovaskill Technologies, Bengaluru

Indicate your rating for the training by choosing a scale of 1(Fair), 2(Good), 3(Very Good), and 4(Excellent)
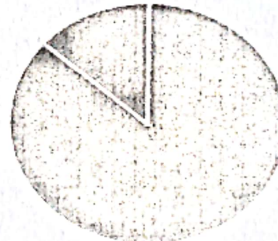
1. List of Projects that were relevant to the domain

List of Projects that were relevant to the domain

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

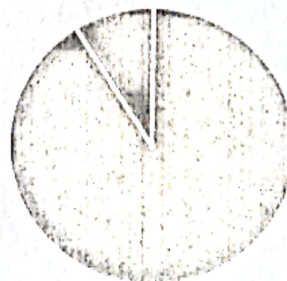2. The Trainers were clear, organized and effective

The Trainers were clear, organized and effective

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

3. The trainers were responsive for doubts/comments raised

The trainers were responsive for doubts / comments raised

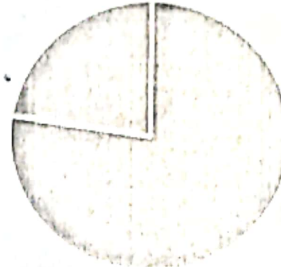- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

Department of Electrical and Electronics Engineering

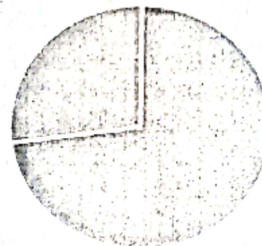4. The quantity of content delivered was adequate

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- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

5. Practical hands-on session was useful in acquiring part of the skillets of Embedded Systems
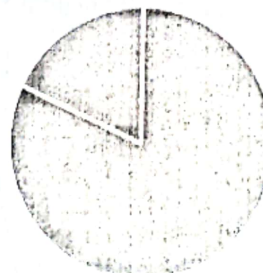
Practical hands on session was useful in acquiring part of
the skillets of Embedded Systems

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

6. The course material was effective and organized as per the objectives

The course material was effective and organized as per the
objectives

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS
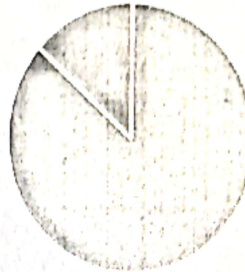
7. Rate he overall training in Industrial automation
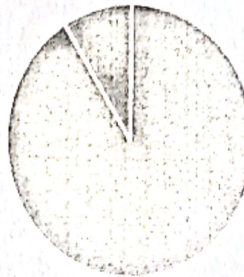
Rate he overall training of Industrial automation

- 1 RATINGS
- 3 RATINGS
- 2 RATINGS

8. Rate the trainer- Mr. Ravi

Rate the trainer- Mr. Ravi

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

Department of Electrical and Electronics Engineering

Report on Domain Specific Training on Industrial Automation conducted by Innovaskills Technologies, Pvt. Ltd. Bengaluru

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Academic Year:	2021-22
Semester: ODD	VI Semester
Domain Specific Training conducted	Industrial Automation – Level 1 & 2
Total Student Trained/Class strength:	22

HOD

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ATME College of Engineering, Mysuru

Enclosed: Supporting Documents of Technical Training Conducted.

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ATME College of Engineering

Department of Electrical and Electronics Engineering

Assessment Marks

Course: DST- Industrial Automation

AY: 2021-22

Semester: VI

Sl.No.	USN	Name	Total Marks	Assessment 1	Assessment 2	Assessment 3	Average
1	4AD18EE001	ABDULBASEER KHATTAL	100	70	75	72	72
2	4AD18EE002	BHAVANA K N	100	90	95	88	91
3	4AD19EE010	MOHAMMED SYED YAKOOB	100	70	60	53	61
4	4AD19EE016	SAHANA P	100	80	85	72	79
5	4AD19EE014	SHASHANK S	100	80	70	75	75
6	4AD19EE017	SUDEEP S	100	85	80	78	81
7	4AD19EE018	SUMANTH P	100	75	70	76	74
8	4AD19EE019	TUSHAR P V	100	75	80	70	75
9	4AD19EE021	V S SHREYAS KAWADI	100	75	85	73	78
10	4AD19EE023	VISHRUTH M B	100	80	75	78	78
11	4AD20EE402	CHANUKYA T S	100	80	85	71	79
12	4AD20EE406	JEEVAN S	100	95	90	94	93
13	4AD20EE407	KIRAN N R	100	80	85	79	81
14	4AD20EE409	MADHU K K	100	70	65	78	71
15	4AD20EE410	MEHADEVAPRASAD G	100	95	90	90	92
16	4AD20EE412	NOOR KAMIL	100	85	80	86	84
17	4AD20EE413	SATHEESHA T C	100	90	90	82	87
18	4AD20EE416	MOHAMMED ASHFAQ M Y	100	80	70	75	75
19	4AD20EE417	RANGANATH Y N	100	80	70	75	75
20	4AD20EE418	RANGASWAMY H S	100	75	85	79	80
21	4AD20EE422	SUHAS T	100	80	75	80	78
22	4AD20EE426	SYED AFRID	100	80	75	78	78

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

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ATME College of Engineering

Department of Electrical and Electronics Engineering
Attendance Status

Course: DST- Industrial Automation

AY: 2021-22

Semester: VI

Sl. No.	USN	Student Name	Status in %
1	4AD18EE001	ABDUL BASHEER	86
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4	4AD19EE016	SHASHANK S	86
5	4AD19EE014	SAHANA P	86
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20	4AD20EE418	SATHEESHA T C	86
21	4AD20EE422	SUHAS T	86
22	4AD20EE426	SYED AFRID	86

Department of Electrical and Electronics Engineering

Student Feedback on Domain Specific Training- Industrial Automation
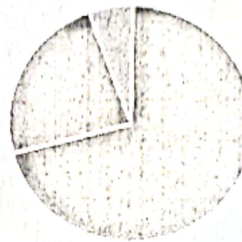
Academic Year: 2021-22

Semester : VI

Service Provider: Innovaskill Technologies, Bengaluru

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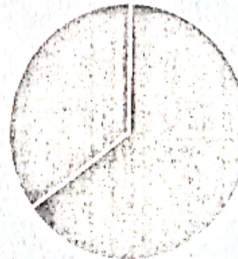1. List of Projects that were relevant to the domain

The list of Projects were relevant to the domain

- 4 RATINGS
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- 2 RATINGS

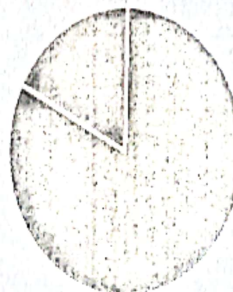2. The Trainers were clear, organized, and effective

The Trainers were clear, organized and effective

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4. The quantity of content delivered was adequate
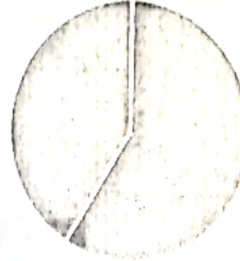
A T M E
College of Engineering

ISO 9001:2015

Department of EEE
Emitting Elite Energy

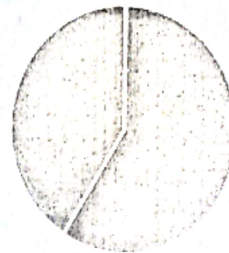## Department of Electrical and Electronics Engineering

The quantity of content delivered was adequate

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

5. Practical hands-on session was useful in acquiring part of the skillets of Industrial Automation

Practical hands on session was useful in acquiring part of the skillets of Industrial Automation

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- 3 RATINGS
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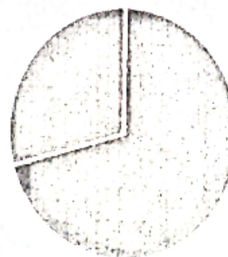
- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

7. Rate he overall training in Industrial automation

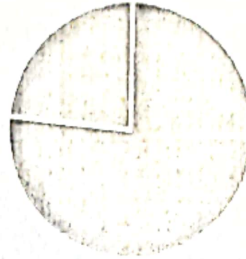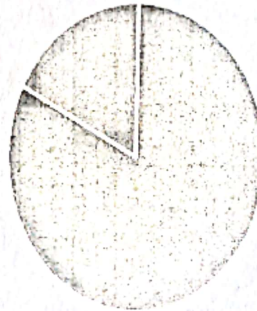## Department of Electrical and Electronics Engineering

Rate the overall training of Industrial automation

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

8. Rate the trainer- Mr. Subhash

Rate the trainer- Mr. Subhash

- 4 RATINGS
- 3 RATINGS
- 2 RATINGS

RAVI S
SENIOR EMBEDDED SOFTWARE ENGINEER

📞 +91 9095065071

📍 No 47, 100 Feet Ring Road, Vysya
Bank Colony, BTM Layout 2nd Stage,
Bangalore - 560076

✉ info@innovaskill.in,
ravi.innovaskill@gmail.com

🌐 www.innovaskill.in

I'm an Embedded Engineer with over seven years of experience working in the tech industry, providing valuable expertise training to various clients.

AREAS OF EXPERTISE

I am working as an Embedded Engineer at Innovaskill Technologies Private Limited. I Had accumulated over 4000 hours of training experience in various software. I had given training for more than 400 students, including working professionals. I had given a presentation for more than 7000 students in over the colleges.

EDUCATIONAL HISTORY

ANNA UNIVERSITY CHENNAI

B.E (EEE) : VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

COLLEGE/CORPORATE TRAINING

- Anna University Pattukkottai
- Heera College of Engineering & Technology
- John Cox Memorial CSI Institute of Technology
- Rajadhani Institute of Engineering and Technology
- Sarabhai Institute of Science and Technology
- AGMR College of Engineering and Technology Hubli
- Ghousia College Of Engineering
- Francis Xavier Engineering College
- RMK College of Engineering and Technology
- TKR College of Engineering & Technology
- Livewire, Frozensmoothies, Franchiserevolt, Cybercode
- And many more.,

PROFESSIONAL HISTORY

TECHNICAL SKILLS

- PCB DESIGN
  - ORCAD CAPTURE
  - ORCAD PSPICE
  - ORCAD PCB EDITOR
- EMBEDDED SYSTEM
  - EMBEDDED C
  - 8051 MICROCONTROLLER
  - PIC16F877A MICROCONTROLLER
  - PIC18F4550 MICROCONTROLLER
  - AVR ATMEGA16 MICROCONTROLLER
  - ARM LPC2148 MICROCONTROLLER
  - STM32
- EMBEDDED LINUX
- AUTOMOTIVE EMBEDDED SYSTEM
  - CAN / LIN / FLEXRAY / CANOE / CAPL / UDS

I hereby declared that the details furnished above are true to the best of my knowledge and belief.
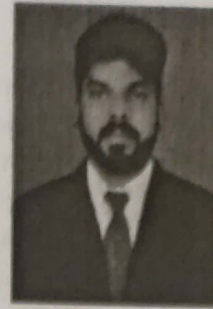
Date: 16th July 2021

(S.RAVI)

SUBASH A
Sr. AUTOMATION ENGINEER
Email: subash.innovaskill@gmail.com,
Mobile: +91-9626941713

Experience Summary:

Total Experience: 9+ years

INNOVASKILL TECHNOLOGIES, BANGALORE
Sr. AUTOMATION ENGINEER / CONSULTANT

Job Profile:

❖ Design, configuration, integration and implementation of process control systems including DCS systems, PLC system & software, HMI software, SCADA systems, Drives and PC networking technology

❖ Provide Technical Support, Complete Implementation of Industrial Automation Projects to Clients.

❖ Provide Technical Training on INDUSTRIAL AUTOMATION tools such as PLC, SCADA, VFD and HMI.

❖ Provide Technical Training variety of proprietary engineering software including Electrical CAD and ETAP.

❖ Provides technical guidance and assistance to other design and draft personnel and is responsible for neatness and accuracy of work.

❖ Work directly with Engineering to interpret drawing markups for development or revision of the product.

❖ Provide Technical Training on PLC PROGRAMMING, SCADA & HMI DESIGNING, Electrical circuit Designing, Panel layout and Power system Analysis.

❖ Provide Training on PLC Panel Erection & Commissioning.

❖ Conduct Online Training or Classroom training to franchise centres across India and Abroad.

❖ Development of the course curriculum based on the current and futuristic requirement.

❖ Handle Training Programs in various Colleges and Corporate.

❖ Trained 10,000+ students on various Industrial Automation tools.

❖ Deliver Presentations, Workshops and Faculty Development Program for various colleges.

❖ Providing Support in Implementing and Troubleshooting PLC PROGRAMS & PANEL WIRING.

❖ Configure, Commission and Troubleshoot VFD & HMI.

VYONCUT MACHINERY, CHENNAI

Updated on July'22

PLC, DCS, PAC, SCADA, HMI, DRIVES AND FIELD INSTRUMENTS, Solar Panel Installation, ECAD and ETAP.

Skill Sets:

- ✓ Extensive knowledge of designing and implementing automation tool and equipment
- ✓ Deep understanding of PLC Programming and all aspects of inputs and outputs of the system
- ✓ Excellent understanding of SCADA & HMI programming and its interaction with PLC
- ✓ Troubleshooting skills needed to make sure all machines are running as efficiently as possible
- ✓ Extensive knowledge of automation system, functional and design
- ✓ Familiar with the testing and implementation of automation systems
- ✓ Possess good communication, troubleshooting and problem-solving skills

Programming Skills in PLC & DCS:

- Honeywell DCS (C200E, HC900-C50).
- PAC SYSTEM (2-Axis Control) using Honeywell (ML-50).
- GE-Fanuc (Model No: VERSA MAX NANO- MICRO, SERIES 90-30).
- Siemens (Model No: S7-300, S7-200, S7-1200, S7-1500).
- Allen Bradley (Model No: MICRO LOGIC 1500, 1200, 1000, SMART LOGIC 500, CONTOL LOGIX, COMPACT LOGUX).
- ABB (Model No: AC500 CPU SERIES).
- Omron (Model No: CP, CJ SERIES).
- Schneider (Model No: TWDL SERIES, M340 SERIES, M200)
- Delta (Model No: DVP SERIES)
- Mitsubishi (MODEL No: FX CPU, Q Series)
- Keyence (MODEL No: KV SERIES)
- Messung (MODEL No: NEXGEN)
- Beckhoff

SCADA designing software
- Wonderware Intouch
- Vijeo citect
- Factory Talk View
- CX-supervisor
- Experion SCADA
- WinCC
- I-FIX

HMI & VFD
- Schneider
- Delta
- Siemens
- Danfoss

Updated on July'22

- Mitsubishi
- ABB

Major Projects Handled:

❖ **Automatic Fire Alarm Alert & Monitoring Using PLC & SCADA**
   - o **Client:** ISRO
   - o **Role:** Programming, Designing, Control Panel Wiring
   - o **Project Details:** Fire Alarm Alert to the Fire Station from different locations.

❖ **Automatic testing of side mirror of Car Using PLC**
   - o **Client:** Samvardhana Motherson Group
   - o **Role:** Programming, Designing, Control Panel Wiring
   - o **Project Details:** Testing the Side Mirror of cars after it is manufactured.

❖ **Control of Pressurized Tanks**
   - o **Client :** Park Felt
   - o **Role :** Programming , SCADA designing
   - o **Project Details:** Control & Maintain the Pressure of the process tanks

❖ **Automatic material handling system Using PLC & SCADA**
   - o **Client:** Blue horizon
   - o **Role:** Programming, Designing, Control Panel Wiring
   - o **Project Details:** Automated material handling is to pick and place the object in the corresponding bins according to the size of the object.

❖ **Automatic surface grinding system Using PLC & SCADA**
   - o **Client:** Blue horizon
   - o **Role:** Programming, Designing, Control Panel Wiring
   - o **Project Details:** Automated roughing and grinding system with conveyor to move the object. The speed of the conveyor is controlled by variable frequency drive.

❖ **Automatic axis cutting machine using PAC and HMI**
   - o **Client:** Blue horizon
   - o **Role:** Programming, Designing, Control Panel Wiring
   - o **Project Details:** Two axis position controlling for laser cutting application using delta servo motor and servo drives

Educational Qualification:

- B.E(EEE) – Anna University, Chennai, Tamil Nadu.
- DIPLOMA(EEE) – The Salem Polytechnic College, Salem, Tamil Nadu.

Updated on July'22

Theory Session: Online (If Necessary) / Offline

Lab Session: Offline

Phase3: Embedded Developer

Module4: 8051.

Module5: PIC16F877A.

Module6:LPC2148.

Theory Session: Online (If Necessary) / Offline

Lab Session: Offline

Phase4: PCB Designer

Module7:PCB Designing.

Complete Design: Online (From Industry Person)

Below list of eligible candidates who can join the session:

1. Anusha D
2. Chandankumar B V
3. Chandan M
4. K M Sahana
5. Kavya G
6. Meghana M
7. Mohammed Ismail
8. Pruthvi Raj K
9. Sanjana P
10. Usha C M
11. Varshitha K P

A T M E
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Programs accredited by NBA, New Delhi - CV, EC, EE & ME (Validity: 2019-20 to 2021-22)

First Party

Name: Ravi S

Designation: Director

Signature with Date: S. ____ 04/06/2022

Place: EEE, Dept.

Second Party:

Name: Dr. Parthasarathy

Designation: Prof & Head

Signature with Date: Parthasarathy 4.5.22

Place: EEE, Dept.

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

CGP Head

Name:

Designation:

Signature with Date:

Dr. Deepu. R

Place: mysore.

Student Representative Signature:

Sl.No	USN	NAME	Signature
1)	4AD20EE411	MANOJKUMARA.S	Manoj
2)	4AD20EE430	Yashwanth.M	Yashwanth
3)	4AD19EE006	K M Sahana	
4)	4AD20EE405	Hemanth.C	
5)	4AD19EE007	Kavya.G	Kavya

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MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

ATME College of Engineering, Mysuru

AND

Innovaskill Technologies, Bangalore

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 06 September 2021 by and between **ATME College of Engineering, Mysuru** AND **Innovaskill Technologies, Bangalore**.

ATME College of Engineering, the First Party represented herein by the Principal, **ATME College of Engineering**, and **Innovaskill Technologies** is the Second party, and represented herein by its Director Mr. S Ravi.

WHEREAS:

A) First Party is a Higher Educational Institution named: **ATME College of Engineering.**

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Placement.

D) **Innovaskill Technologies** - The Second Party is engaged in learning and acquire new skills, as well as gain the professional knowledge required to progress in a career. They offer a vast array of practical & job oriented domain-specific courses in IT software development, Electronic Design Automation, Industrial Automation, Information & Network Security, Mechanical & Civil Design, Solar Installation, Digital Marketing and many more Professional courses which are specifically designed to suit the needs of the industry and also help to become an Entrepreneur.

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NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERETO AGREE AS FOLLOWS:

CLAUSE 1   **CO-OPERATION**

1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.

1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.

1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.

CLAUSE 2   **SCOPE OF THE MoU**

2.1 Industrial Training & Visits: Industry and Institution interaction will provide an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to involve in Industrial Training Programs for the First Party. This will provide confidence & smooth transition for students work. Also, the Second party may register on the AICTE Internship Portal for the benefit of students.

2.2 Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.

2.3 Placement of trained students: second party will actively engage to help the delivery of the training and placement of the students of the first party on the technology trends and in house requirements.

2.4 There is no financial commitment on the part of the **ATME College of Engineering**, the first party to take up any program mention in MoU. If there is any financial consideration, it will be dealt separately.

2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

ATME COLLEGE OF ENGINEERING
13th Kilometer, Mysore-Kanakapura-Bangalore Road, Mysore – 570 028   P : 0821-2593335   F: 0821-2593328
Email: info@atme.in   Web : www.atme.in

ATME
College of Engineering

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CLAUSE 3   **VALIDITY**

3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Part.

CLAUSE 4   **RELATIONSHIP BETWEEN THE PARTIES**

4.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

First Party	**Second Party**
	06/09/2021
Dr. Basavaraj L	
Academic Senate Member VTU, Belagavi	
Principal, ATME College of Engineering,	
Mysuru, Karnataka.	

Department of Electrical and Electronics Engineering
Domain-Specific Training
15.03.2022

The following are the Industry Oriented Courses for Core sector identified by the department for our students. The content is relevant to produce the intended practical skills to support Placement opportunities.

Domain: Industrial Automation

Sl. No.	Semester	Training Mode	Training Institute/ Platform	Title of course	Duration	Acquiring Skills
1	III	Offline	Vidyuth Automation Mysuru/ Innovaskill Technologies, Bengaluru	Industrial Automation Level-I	(50 Hours) During Semester break	Logical Skills & Analytical Skills
2	IV	Offline	Vidyuth Automation Mysuru/ Innovaskill Technologies, Bengaluru	Industrial Automation Level-II	(50 Hours) Throughout the semester	Programing Skills & Technical Skills
3	VII/VIII	Offline	Vidyuth Automation Mysuru/ Innovaskill Technologies, Bengaluru	Industrial Automation Level-III	(100 Hours) Throughout the semester	Data analysis, Technical Writing, Communication Skills & Project Management

Top Companies or Recruiters of Industrial Automation

Adarsha

GE

Rockwell Automation

SIEMENS

Honeywell

LARSEN & TOUBRO

Schneider Electric

YOKOGAWA
Co-innovating tomorrow

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Department of Electrical and Electronics Engineering

Domain: Embedded Systems

Sl. No.	Semester	Training Mode	Training Institute/ Platform	Title of course	Duration	Acquiring Skills
1	V	Offline	Innovaskill Technologies, Bengaluru	Embedded Systems Design Level-I	(50 Hours) Throughout the semester	Analytical Skills, Debugging Skills & Programming Skills
2	VI	Offline	Innovaskill Technologies, Bengaluru	Embedded Systems Design Level-II	(50 Hours) Throughout the semester	Technical, Interfacing & Troubleshooting
3	VII/ VIII	Offline	Innovaskill Technologies, Bengaluru	Embedded Systems Design Level-III	(100 Hours) Throughout the semester	Data analysis, Technical Writing, Communication Skills & Project Management

Top Companies or Recruiters of Embedded Systems

SanDisk·   SIEMENS   aLTRan

LARSEN & TOUBRO   Qualcomm   SANKALP semiconductor

Department of Electrical and Electronics Engineering

Domain: Electrical CADD, Product Design and Validation

Sl. No.	Semester	Training Mode	Training Institute/ Platform	Title of course	Duration	Acquiring Skills
1	V	Offline	CADD Centre	Industrial Electrical CADD	(50 Hours) Throughout the semester	Data Analysis, Numerical Skills. & Analytical Skills,
2	VI	Offline	Government Tool Room and Training Centre (GTTC), Mysuru	Product Design and Validation-Level-1	(50 Hours) Throughout the semester	Data Analysis, Numerical Skills. & Analytical Skills,
3	VII/VIII	Offline	Government Tool Room and Training Centre (GTTC), Mysuru	Product Design and Validation Level-2	(100 Hours) Throughout the semester	Design Thinking Skills & Project Management

Top Companies or Recruiters of Electrical CADD, Product Design and Validation
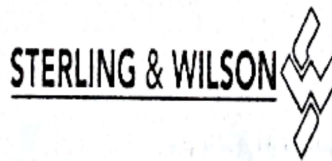
ABB

ALSTOM

STERLING & WILSON

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Department of Electrical and Electronics Engineering

Core Sector

SL.No.	Course	Potential Recruiters
1	**Industrial Automation**	• Adarsha Automation & Controls • General Electric • Rockwell Automation • Siemens India Ltd • Honeywell Automation India Ltd • ABB India Ltd. • Larsen and Toubro • Schneider Electric • Honeywell process solutions • Yokogawa electric • ABB • Rockwell automation
2	**Embedded Systems** (Hardware, Application software, RTOS)	• Xilinx • HCL • Altran, • Sandisk, • Wipro • Intel • Qualcomm • Tessolve semiconductors • Synapse • Sankalp semiconductors • National semiconductor • Larsen and Toubro • CISCO • Cadence • AMD • Infosys • Sankray • Infenion Technologies • Opto Circuits • General Electric • Cientra
3	**Electrical CADD, Product Design and Validation** (Modelling and Drafting)	• ABB India Ltd • Larsen & Toubro Limited • GE T&D India Ltd • Siemens India • Alstom • Areva Electrical • Sterling & Wilson • Schneider Electric Infrastructure Limited.

Department of Electrical and Electronics Engineering

Domain Specific Training _ Embedded Systems_ Contents covered

Sl.no.	Date	Day	Mode Of Training	Training	Time	Topics
1	10-05-2022	Tuesday	Online	C Programming	01:30 PM to 04:00 PM	C Programming Introduction, Structures and Application of C Programming, Compilation stages.
2	14-05-2022	Saturday	Offline	Embedded System	09:00 AM to 04:45 PM	Introduction to EDA, Difference b/w Electrical and electronics, AC and DC power supply, Embedded System Design And Classification, Components of embedded system hardware
3	17-05-2022	Tuesday	Online	C Programming	02:00 PM to 05:00 PM	Software Description, Basic Syntax includes elements on C, Input and Output, Variables, Data Types and Operators.
4	24-05-2022	Tuesday	Online	C Programming	02:00 PM to 05:00 PM	C Program Control Statements and Condition Statements, Examples on Conditional Statements.
5	28-05-2022	Saturday	Offline	Embedded System	09:00 AM to 04:45 PM	8051 Microcontroller, Current sourcing and sinking, GPIO Programming, Single LED, Multiple LED, Seven segment interfacing (CASSD, CCSSD), Motor Interfacing (DC Motor, Stepper Motor)
6	31-05-2022	Tuesday	Online	C Programming	02:00 PM to 05:00 PM	C Looping Statements and Jumping Statements, Examples on Control Statements.
7	04-06-2022	Saturday	Offline	Embedded System	09:00 AM to 04:45 PM	Crystal Oscillator, Relay interfacing, LCD Interfacing, Keypad interfacing
8	21-06-2022	Tuesday	Online	C Programming	02:00 PM to 05:00 PM	C Arrays, Types of Arrays and Examples on Arrays.
9	25-06-2022	Saturday	Offline	Embedded System	09:00 AM to 04:45 PM	Keypad interfacing, PIC16F877A, PIC16F877A GPO functionality, GPIO Programming (Single LED, Multiple LED, Seven segment interfacing (CASSD, CCSSD), Motor Interfacing (DC Motor, Stepper Motor), LCD Interfacing, Relay interfacing)
10	28-06-2022	Tuesday	Online	C Programming	02:00 PM to 05:00 PM	C Strings and String Functions, Examples on Strings.

11	02-07-2022	Saturday	Offline	Embedded System	09.00 AM to 04.45 PM	UART with 8051, PIC16F877A: Timer, Interrupt
12	09-07-2022	Sunday	Offline	Embedded System	09.00 AM to 04.45 PM	PIC16F877A: Timer, Interrupt, Serial Communication, CCP
13	25-08-2022	Thursday	Offline	Embedded System	09.00 AM to 04.45 PM	PIC16F877A: USART, CCP
14	26-08-2022	Friday	Offline	Embedded System	09.00 AM to 04.45 PM	PIC16F877A: USART Registers, USART Program, ADC
15	27-08-2022	Saturday	Offline	Embedded System	09.00 AM to 04.45 PM	LPC2148: Introduction, GPIO Programming
16	01-09-2022	Thursday	Offline	Embedded System	09.00 AM to 04.45 PM	LPC2148: Timer, PLL
17	02-09-2022	Friday	Offline	Embedded System	09.00 AM to 04.45 PM	LPC2148: UART and It's register, Bluetooth
18	03-09-2022	Saturday	Offline	Embedded System	09.00 AM to 04.45 PM	LPC2148: GSM, GPS, Zigbee, RFID
19	09-09-2022	Friday	Offline	Embedded System	09.00 AM to 04.45 PM	IoT: Sending data To Tinker cad -> Esp32 + Humidity + Air Quality (Weather Monitoring System), Temperature And Humidity Monitoring Using Esp32 And Blynk IoT, Control Smart Home Appliances And Mobile Using Blynk Mobile App, Control Led Using Google Assistance.
20	10-09-2022	Saturday	Offline	Embedded System	09.00 AM to 04.45 PM	PCB Design: OrCAD Capture, OrCAD PSPICE, OrCAD PEB Editor

Total time = 115 Hours

CGP Head

HoD

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Principal

ATME
College of Engineering

Department of Electrical and Electronics Engineering

Domain Specific Training _ Industrial Automation_ Contents covered

Sl.no.	Date	Day	Time	Mode Of Training	Topics
1	10-05-2022	Tuesday	01:30 PM to 04:00 PM	Online	Automation - Types - Industrial Automation - Advantages - Tools used for Automation - PLC - Architecture of PLC
2	14-05-2022	Saturday	09:00 AM to 04:45 PM	Offline	Power Supply - I/O's - CPU - Memory - PLC Programming - Ladder Diagram - Basic Programming
3	17-05-2022	Tuesday	02:00 PM to 05:00 PM	Online	Assessment - 1 (Basic Programming Concepts)
4	24-05-2022	Tuesday	02:00 PM to 05:00 PM	Online	Relay - Types - Wiring using Relay
5	28-05-2022	Saturday	09:00 AM to 04:45 PM	Offline	Omron PLC - Programming using CX-Programmer software
6	31-05-2022	Tuesday	02:00 PM to 05:00 PM	Online	Latching & Unlatching - Memory Concept - Industrial Applications
7	04-06-2022	Saturday	09:00 AM to 04:45 PM	Offline	Timer Concept - Industrial Applications using Timer - Executing Timer Applications in Software
8	21-06-2022	Tuesday	02:00 PM to 05:00 PM	Online	Assessment - 2 (Applications using Memory Concepts & Timer)
9	25-06-2022	Saturday	09:00 AM to 04:45 PM	Offline	Counter - Types - Applications using Counter - SET, RESET, KEEP, JUMP, INTERLOCK , COMPARATOR
10	28-06-2022	Tuesday	02:00 PM to 05:00 PM	Online	Assessment - 3 (Applications based on Timers & Counters)

11	09-07-2022	Saturday	09:00 AM to 04:45 PM	Offline	Move, Math Instructions, Virtual Simulation. SCADA - CX - Supervisor
12	25-08-2022	Thursday	09:00 AM to 04:45 PM	Offline	SCADA - CX - Supervisor - Virtual Simulation
13	26-08-2022	Friday	09:00 AM to 04:45 PM	Offline	ABB PLC - CoDeSys - Control Builder - Functional Block Diagram
14	27-08-2022	Saturday	09:00 AM to 04:45 PM	Offline	AB PLC - RS LOGIX 500
15	01-09-2022	Thursday	09:00 AM to 04:45 PM	Offline	Delta PLC - WPL Soft
16	02-09-2022	Friday	09:00 AM to 04:45 PM	Offline	Mitsubishi PLC - GX-Works
17	03-09-2022	Saturday	09:00 AM to 04:45 PM	Offline	Wonderware InTouch SCADA
18	09-09-2022	Friday	09:00 AM to 04:45 PM	Offline	Panel Wiring, Relay Wiring, OMRON PLC, ABB PLC
19	10-09-2022	Saturday	09:00 AM to 04:45 PM	Offline	Panel Wiring, Relay Wiring, OMRON PLC, AB PLC, Schneider HMI, SCADA Interfacing, Siemens PLC - Simatic Manager

Total Time = 109 Hrs

CGP Head

HoD

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ATME College of Engineering, Mysuru

Principal