



Karnatak Law Society's

Vishwanathrao Deshpande Institute of Technology, Haliyal

(Approved by AICTE, New Delhi. Affiliated to VTU, Belagavi)

(Recognized Under Section 2(f) by UGC, New Delhi)

Udyog Vidya Nagar, Haliyal – 581329, Dist: Uttara Kannada

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Department of Electronics and Communication Engineering
Report on Visit to Deshpande Startup Campus, Hubballi

Particulars	Details
Activity Name:	Visit to Deshpande Startups
Participants	4 th Sem Students of E&CE Department
Faculty Coordinator	Prof. Raghavendra Nagaralli
Purpose	To understand need of Startups
Expected Outcome	How to upgrade our career in the Startups
Date of Event	17 th MAY 2022
Date of Report Submission	18 th MAY 2022
Number of Participants	14
Venue	Deshpande Startups, Opposite Gokul Village, Next to Hubballi Airport, Gokul Road, Hubballi

Brief Report about the Session

The participants were present at Sandbox campus at 10.00 AM on Tuesday, 17th MAY 2022. Mr. Vinay Ghodke, Senior Executive Deshpande Startups, escorted all the participants to the Startup venue.

Session 1:

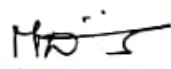
Session 1 was about the introduction about the startups and how we can build our career in the Startups, the main goal of the Deshpande Startups is to provide mentorship and lab facilities for the young Entrepreneurs to develop their career in Startups, awards & recognitions bagged by the Sandbox, various social activities carried out by Sandbox under State Government policy for Rural sector.

Session 2:

Session 2 started with the Introduction to ESDM lab with basics of hand soldering and micro soldering, which is carried out in cluster (machine used for micro soldering) for prototype building. The session went on with the cluster consist different fabrication process for Embedding Electronics parts on the designed board which is used for micro soldering. The session also dealt with testing and validation of electronics system and products in different environmental condition.

Session 3:

Dealt with Additive Manufacturing - Additive manufacturing (AM), also known as 3D printing, is a transformative approach to industrial production that enables the creation of lighter, stronger parts and systems.


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Session 4:

Started with Infinity Lab, which deals with IoT (Internet of Things) and Robotics that are used in the industries. We saw the different working models of Robots, and how this lab is providing mentorship for the Student who is interested in building career in Robotics and IOT.

The session also dealt with the programming for different embedded system for robotics. And also testing and validation of the product.

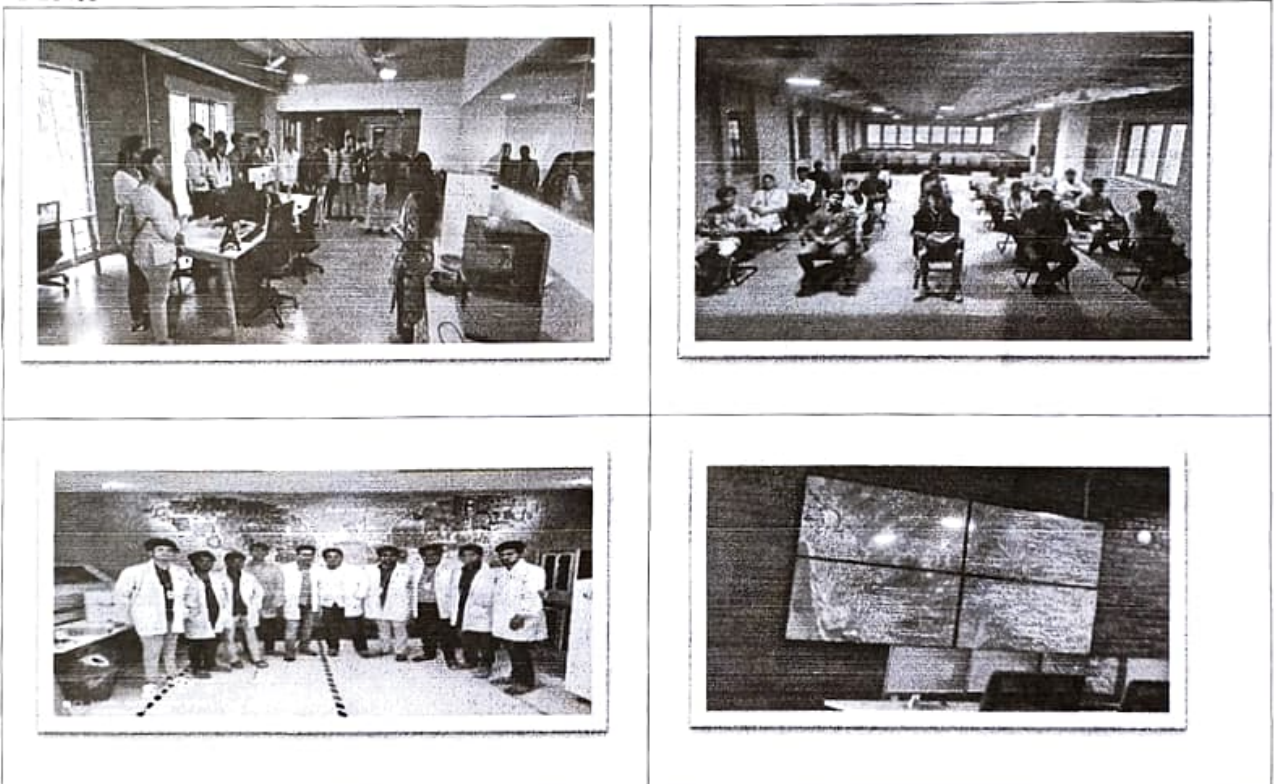
Session 5 & 6:

Visited RTTC, Rural Transfer Technology Center. In this we witnessed how the Farmers are benefited through technology using Mobile App. The Farmer can identify the water level in the ground through which he can grow better crops which will increase the income. Using Google maps, the Farmers identify and water level can be detected and it will be recorded in main station.

Session 7:

In this session, we saw different Startup companies working in Deshpande Startup Campus, which will provide internship for students for developing their skills.

Photos



M. S.
Head of the Department
Dept. of Electronic & Communication Engg.
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Department of Electronics & Communication Engineering
MOU Activity Report (AY 2021-22)


Following is the summary of IoT Skill Lab conducted for 2nd Semester Students.

Particulars	Details
Activity Name:	IoT Skill Lab
Participants	2 nd Semester Students
Faculty Coordinator	Prof. Rahul C. M. Prof. Deepak Sharma, Dept. of ECE, KLS VEDIT, Haliyal.
Associated Industry	TMI ALS, Bengaluru
Industry Expert	Mr. Sunil Shambhatnavar, Vice President, TMI ALS, Bengaluru Mr. Chidambar Kulkarni, Engineer, TMI ALS, Bengaluru
Objective	To make Students to understand <ul style="list-style-type: none">Basics of Controller, Sensors and ActuatorsUsage of IOT in different contexts.Key components that makes an IOT system.IOT based simple prototypes.The deployment of smart objects and the technologies to connect them to network.Different sensor technologies for sensing real world entities.
Outcome	After the Course, Students are able to <ul style="list-style-type: none">Explain Basics of Controller, Sensors and ActuatorsAnalyse and build some IOT based simple prototypes.Illustrate different sensor technologies for sensing real world entities and store the data, initiate actions based on it.Apply the applications of IOT in Industry.
Duration of Event	16 th June 2022 to 29 th August 2022 (21 Hours)
Date of Report Submission	1 st September 2022
Number of Participants	20
Venue	Block 10 for Theoretical Class DSP Lab, Department of E&CE for Hands-On

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Content of the Course

Sl. No.	Topics	No. of Hours
1	Why Skill Lab	1
2	Introduction to Basic Electronic Concepts – V, I, R, C, L	1
3	Introduction to Basic Electronic Components and Identification	1
4	Introduction to Embedded Controller	1
5	■ Introduction to basic Controller	1
6	■ Introduction to Arduino Uno Development Board	2
7	■ I/O Port Programming	2
8	■ Sensors & Actuators Interfacing with Arduino <ul style="list-style-type: none">- Simple LED blinking- Traffic signal model- Controlling the light intensity by software(code)- LDR- Temperature Sensor- Ultrasonic Sensor- MQ3 sensor- Servo motor- Humidity Sensor- Soil Moisture Sensor- Buzzer- LCD Display- LED Display	7
9	One Day Workshop on “ Basics of IoT ” by Industry Expert on 29th August 2022 (A brief report attached) Resource Persons: Mr. Sunil Shambhatnavar, Vice President, TMI ALS, Bengaluru Mr. Chidambar Kulkarni, Engineer, TMI ALS, Bengaluru Contents of Workshop <ul style="list-style-type: none">- Python Programming- Reading and Sending Sensor data to the Cloud- Storing the Data in Cloud- Using Raspberry Pi for interfacing various Sensors and Actuators	5
	Total	21


Checked by the President of
Dept. of Electronics & Communication Engg
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Haliyal, Karnataka, India
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ONE DAY WORKSHOP ON

“BASICS OF IoT”

PARTICIPATION CERTIFICATE

This is to certify that Mr. / Ms. NOOPUR K MAHENDRAKAR
 of 4th Semester of ECE Department has successfully attended
One Day Workshop on “Basics of IoT” organized by the Department of E&CE, KLS Vdit, Haliyal
in association with e-Yantra Robotics Lab and TMI ALS, Bengaluru on 29 August, 2022.

Mr. [Signature]
Mr. Sushil V. Shambhatnavar
 Vice President,
 TMI ALS, Bengaluru

Dr. [Signature]
Dr. Mahendra M. Dixit
 Prof. & Head (E&CE),
 KLS Vdit, Haliyal
 Head of the Department
 Dept. of Electronics & Communication Engg.
 KLS Vdit, HALIYAL (U.K.)

Dr. [Signature]
Dr. V. A. Kulkarni
 Principal,
 KLS Vdit, Haliyal

Head of the Department
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One Day Workshop on Basics of IoT

Date: 01.09.2022

The following is the brief report on One Day Workshop,

1. The Dept. of E&CE has successfully conducted One Day Workshop on Basics of IoT on 29th August 2022.
2. The Inaugural Ceremony of the event was started at 10.00 am in New Seminar Hall. Mr. Sunil T. Shambhatnavar, Vice-President, **TMI ALS, Bangalore** has inaugurated the workshop as Chief Guest along with Mr. Chidambar Kulkarni, Engineer, TMI ALS, Bangalore as Resource Person.
3. During Inauguration Mr. Sunil emphasized on Trending Technologies which directly and indirectly involved IoT platforms he also enmarked on learning methodologies to be adopted by the students towards the IoT domain.
4. The Chief Guest elaborated upon the content and the delivery of One Day Workshop to the Students during inauguration. The ceremony ended formally with the vote of thanks.
5. The workshop began with a Technical Address by Sunil T. Shambhatnavar. He expressed facts and figures of the IoT role in Inter Engineering Disciplines. He mentioned the role of IoT in Medical, Agriculture and other Social Themes where real challenges occur and possible solution may be provided by the engineers.
6. During the second session Mr. Chidambar Kulkarni introduced the device and components with Sensors and Actuators.
7. Later, Mr. Chidambar demonstrated the utilization of IoT resources available in the Dept. of Electronics & Communication Engineering under the IoT Skill Lab to students.
8. Mr. Chidambar represented few sample experiments on Raspberry Pi module connected with variety of Sensors / Devices which were programmed using Python. The session was completely Hands-on for students.
9. This important Workshop has been organized by the dept. in view of Institutes Skill Lab initiated for First Year Students of KLS VDIT from 16th June to 29th August 2022. The workshop also engrossed 60 registered students from 1st Year and 2nd Year.
10. The workshop was concluded with valedictory ceremony in presence of the Chief Guest, Resource Person, Principal, HoD, Coordinators, Staff and Students by distributing workshop participation Certificates and Skill Lab Course Completion Certificates.

Trainers & Staff Coordinators

Prof. Rahul C. M.

Prof. Deepak Sharma

Rahul C. M.
Deepak Sharma

HR
HOD, E&CE

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Dept. of Electronic & Communication Engg.
KLS V.D.I.T., HALIYAL (K.A.)



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ONE DAY WORKSHOP ON
“Basics of IoT”

In association with
e-Yantra Robotics Lab, IIT Bombay



Chief Guest & Resource Person

Mr. Sunil T. Shambhatnavar

Vice President, Sales & Marketing,
TMI ALS, Bengaluru

Resource Person

Mr. Chidambar Kulkarni

Engineer,
TMI ALS, Bengaluru



Date:
29th August 2022, Monday

Scheduled from:
9:30 A.M. to 3:30 P.M.


All Registered Participants will get Certificate

Prof. Deepak Sharma & Prof. Rahul C. M.
Workshop Co-Ordinators

Dr. Mahendra M. Dixit
Prof. & HOD, E&CE

Dr. V. A. Kulkarni
Principal

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