

**INFORMATION TECHNOLOGY DEPARTMENT
OF
L.D.COLLEGE OF ENGINEERING
Organize
TWO WEEK SHORT TERM TRAINING PROGRAMME ON**

***“FUNDAMENTALS AND APPLICATIONS OF IOT, BIG DATA AND MACHINE
LEARNING”***

AICTE-ISTE Approved Refresher program
(iste/proceedings/STTP-SF/GUJ-19/2018-19)
(28/05/2018 to 08/06/2018)

Report of STTP

28/05/2018

ISTE and CTE approved –and GUJCOST sponsored two week short term training programmed Organized on ““Fundamentals and Applications of IOT, Big data and Machine Learning”.” in Information Technology department of L.D.College of Engg during 28th May to 2018 to 8th June 2018. This STTP had 31 participants including professors from Degree/Diploma/MCA colleges all across Gujarat. The common inaugural function of six different short term training programs of our institute was organized at aryabhata hall. The inauguration of the event was acknowledged by presence of chief Guests Mr. Shivand swami ,Executive Director CEPT Research cell, Mr. Navin sheth, Vice chancellor GUJARAT TECHNOLOGICAL UNIVERSITY, Mr Atik desai, CEO L&T hajira, Mr N M Desai Chairman ISRO, Dr. G.P. Vadodaria , Principal L.D college of Engineering, Dr Usha Nilkakanthan HOD EC Dept,L.D.College of Engineering. They lighted the lamp and inaugurated the event.





Whole Two week Short term training program was in association with E-Infochips. eInfochips, an Arrow company, is a leading global provider of product engineering and semiconductor design services. With over 500+ products developed and 40M deployments in 140 countries, eInfochips continues to fuel technological innovations in multiple verticals. The company's service offerings include digital transformation and connected IoT solutions across various cloud platforms, including AWS and Azure.

Prof Bakul Panchal, Coordinator of this training program welcomed and briefed the participants about conceptualizing the training program to coordinating with eInfochips for mentoring and providing experts for Training.



First session was taken by Dr. Chirag Thaker, he covered the fundamentals of IOT and Bigdata.

Next kick off session was covered by Mr. Manoj Pandey, Head ISV eInfochips. He briefed about market and revenue buildup by IOT. Mr. Bhaskar Trivedi, a senior professional of IT and Electronic Industry from eInfochips talked about protocols and embedded systems used for IOT development in the same session.



In last session, Mr. Shrenik and Mr.Dhruvin discussed about problem solving in Artificial Intelligence such as 8 puzzle and chess.



The participants had sense of content on the first day and looking forward to further sessions full of knowledge.

29/05/2018

On the second day, the first session was started by Mr.Sombabu, Member



Technical Staff, eInfochips. He gave overview of IOT and provide information related to the market trends of IOT. He also gave the insight into the various challenges of IOT related to the ecosystem.



The post lunch session was a practical session, which was taken by Nabil Gandhi & Nayangiri Goswami DevOps Engineer. They provided the detailed knowledge about cloud computing concept to build the IOT applications like AZURE and Practical Demo of How to use Azure PaaS Components to build an OT Application.



The last session being very informative to the attendees, was taken by the Mr.Sombabu, Member Technical Staff, eInfochips Nabil Gandhi, DevOps Engineer, Nayangiri Goswami, DevOps Engineer, and is also based on practical/ demo. They demonstrated the device integration like Raspberry PI, Beagle Bone, Qualcomm 410, Samsung Artik, Ti Sitara.

thus, on this day participants gained valuable knowledge about practical/demo of technologies and the devices which can be very useful to developed the IOT related applications.

30/05/2018



On this day a first session was initiated by Mr.Somababu, Member Technical Staff, eInfochips, Mr,Somababu have wide experience of industries so he provide in depth knowledge of social media application related to IOT and conducted session talk on Real Industry Use Case with explanation and discussion on Social media application and Industrial use case.



The second session was taken by Senior IT professional, eInfochips Mr. Dhaval Patel, Technical Manager, eInfochips Mr.Krupal Desai, Technical Lead, eInfochips, They provide the fundamental of testing and provide detail knowledge of testing framework which can be applied to test and IOT application, they Also the provide the knowledge of Hardware testing.

31/05/2018



Fifth day, the whole day was taken by Dr. Hemal and Mr.. Sulabh Bhatt, They depicted a lecturer on BigData overview and market trends. They also give provided in depth knowledge of BigData architecture for various technologies like Hadoop, MongoDB, Tableau. An interesting topic of this session is on real industries use case explanation and discussion.



Mr sulabh bhatt has demonstrated about hive, hbase and pig.

01/06/2018



On the sixth day “a kick off session” by Darshana Mistry, Technical Associate, Software division, eInfochips, She gave lecturer on machine learning overview and market trends also she conducted a valuable talk on Architecture of Machine Learning Platforms from IBM (Watson) and QUALCOMM (Snapdragon Neural Processing Engine) and Real Industry Use Cases.



Second session was conducted by Mrs. Shreeji shah she has given practical demo of python programming.

04/06/2018



the whole day was taken by the Mr. Umang Shukla and Prof. Hirav Shah from Ganpat University, They throw a knowledge on Why IoT is future?, Web 3.0 and Web of Things, SDN for IoT fog computing, Security and privacy in IoT. Also they talk about the technological concept on Android of Things. At last they give information about Raspberry PI and Arduino.



Mr. Umang shukla has given indepth knowledge about become device.He has demonstrated university attendance system using become device.

05/06/2018

On the seventh day, the first session was taken by Dr. Kalpesh Parikh from Intellisense ITsys pvt ltd. He delivered lecture on serverless computing.



A second session was taken by, Dr. M.C.Parikh, Associate Professor, IT Dept LDCE. He delivered the valuable talk on Image processing using machine learning.



The last session was taken by, Mr. Vedant Diwanji, BITS Pilani GOA, He saw a live demo of projects on machine learning.



06/08/2018

the first session was taken by, Samir Bhatt, senior technical lead, eInfochips. He thought how we can do Machine learning on Nvidia processors.



A second session was taken by, Pranav Purohit, Software Engineer, eInfochips. They delivered a lecturer on Image analytics and show the demo of it.

07/08/2018

It was day a followed by the Industrial Visit to eInfochips, They show the live demo of their various products, after that a session of Question/Answer/ Discussion and Idea Discussion/ Research Experience.



In e-infochip experience zone, E-infochip fellow has saw different products of infochips like health care device, industry automation circuit etc.



8/8/2018

First session was taken by Shri vivekjivan swamiji. He has delivered a motivational speech towards life.



Second session was conducted by Dr. Hiren B Patel, Professor and head, LDRP Institute of technology. He has delivered a concluding session about research work to be done in the field of IOT. He has demonstrated about cooja simulation tool of IOT.



Last session was Valedictory function. It was conducted in presence of Dr. G.P Vadodaria, Principal of L.D College of Engineering, Prof Hiteishi Diwanji , HOD IT Department, Chief guest Dr Hiren B Patel HOD Computer department LDRP,Co-Ordination Prof B B Panchal.Senior software developer Mr. Sharad Suthar,Einfochips

was also be a part of valedictory function





Certificates were distributed to all the participants. The participants gave feedback saying that they not only gained the knowledge of the subject but they learnt the current scenario of IOT ,Big and machine learning in today's world . Most of the PG students also got idea for their dissertation topic.