Jointly Organized by
E&ICT Academy and IIIT Kota

MNIT Jaipur
http://www.mnit.ac.in/eict

Online Program cum Internship on
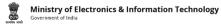
Building IoT applications: Using open source

5th July – 11th August 2021
http://academymnit.wordpress.com

Online Summers Training Programme
EICT Academy funded by

Ministry of Electronics and Information Technology Government of India

Ministry of Electronics & Information Technology
Government of India

meity.gov.in/content/schemes-projects

Dear Sir/Madam,

Greetings! We pray to God to keep you and your family safe and healthy.

Electronics & ICT Academy, MNIT Jaipur is glad to announce a six-week-long online training programme cum internship entitled "**Building IoT Applications: Using Open Source**" during **5th July - 11th Aug 2021**.

About the Training Programme cum internship:
This online internship cum training programme will help UG/PG/Ph.D.
students and professionals to advance their career in state-of-the-art methods for Internet of Things (IoT), Machine Learning and applications using open-source tools and techniques.

Objectives:
- To provide exposure to fundamentals of IoT and Machine Learning.
- To enable participants to use various open-source platforms for designing IoT applications.

Our Experts:
1. Dr. C.P. Ravikumar, Texas Instrument Bengaluru
2. Prof. Santanu Chaudhury, Director IIT Jodhpur
3. Dr. R. Gopalakrishnan, IRTS, General Manager (Data Analytics), Centre for Railway Information System (CRIS)
4. Dr. Anshu Gupta, General Manager – ADAS, Continental AG
5. Dr. Namita Sharma, Manager, Intel Corporation
6. Dr. Saumyabrata Dev, Assistant Professor, University College Dublin Ireland
7. Dr. Sivanagaraja Tatinati, PhD (South Korea), Data Analyst, Vedantu
8. Dr. Siddhartha Sarma, IIT Mandi
9. Dr. Arun Kumar, NIT, Rourkela
10. Dr. Shilpa Manandhar Scientist, Astar – Singapore
11. Dr. Akhil Ranjan, Scientist, Temasek Laboratories Singapore
12. Dr. Rajat Bandejiya, Project Officer, Nanyang Technological University Singapore
13. Dr. Ankush Vashistha, PhD (NTU Singapore) IIIT Kota
14. Dr. Ashish Sharma, IIIT Kota

Key Benefits:
- Learn from & interact with renowned experts from industry and academia
- Intensive hands-on sessions/demonstrations with hardware (to be purchased by the participants) and open-source platforms
- Certificate of Participation by Electronics & ICT Academy, MNIT Jaipur (Sponsored by Ministry of Electronics & IT, Govt. of India) in association with IIIT Kota

Programme Modules (Each module has labs with hands-on illustrations):
Module 1: IoT networks and wireless technologies   (Week-1)
Module 2: Machine Learning & IoT   (Week-2)
Module 3: Open source cloud and IoT interfacing   (Week-3)
Module 4: Open source tools and techniques for real time systems & applications   (Week-4)

Jointly Organized by
E&ICT Academy and IIIT Kota

MNIT Jaipur
http://www.mnit.ac.in/eict

Online Program cum Internship on

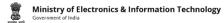# Building IoT applications: Using open source

5th July – 11th August 2021
http://academymnit.wordpress.com

Online Summers Training Programme
EICT Academy funded by

Ministry of Electronics and Information Technology Government of India

Ministry of Electronics & Information Technology
Government of India

meity.gov.in/content/schemes-projects

Module 5: Introduction to Python programming   (Week-5)
Module 6: IoT applications with devices and sensors   (Week-6)

Components of hardware kit

All our experts would demonstrate using low-cost open source IoT platform based on NodeMCU ESP8266 mini-board. Those participants, who are interested to develop their own project, may optionally purchase online- maybe less than Rs. 1000/-. This is Wiki page https://en.wikipedia.org/wiki/NodeMCU.

NodeMCU ESP8266 wifi OR **NodeMCU ESP32 wifi+BLE** development board (x2)	Jumper wires (male to male, female to female)	PIR Motion Sensor Detector Module HC-SR501
Aurdino Uno (x1)	LED's (x5)	BME680
Push button (x2)	1 KOhm Potentiometer	DHT11/DHT22
Breadboard (x1)	4x330 ohm resistors	Ultrasonic Sensor

Suggested links for online purchase-

- https://www.amazon.in/
- https://robu.in/
- https://in.rsdelivers.com/
- https://compoindia.com/
- https://www.electroncomponents.com/
- https://www.probots.co.in/
- https://www.flyrobo.in/
- https://robokits.co.in/

Registration Fee:

Rs. 8,000/- for the whole 6 week-long programme
Rs. 5,000/- for a month (any 4 modules) long programme
Rs. 1,500/- for each module per week-long programme
(Fees does not include price of hardware kit)

Register online at- http://online.mnit.ac.in/eict
Details of the programme- http://www.mnit.ac.in/eict/acad_training_prg.php
Details of all the modules-
https://drive.google.com/file/d/1JdZwTHPorg-sYXnBgc8pFsEUUQEng4fx/view?usp=sharing
Join us with Telegram link: https://t.me/joinchat/hpf8iso7ckMxMjU1

Programme Coordinators contacts:

Dr. Ankush Vashistha   vash0001@ntu.edu.sg   9549650364 (M)
Dr. Ashish Sharma   ashish@iiitkota.ac.in   9549650767 (M)

We request to kindly circulate this "Call for Participation" to the students/colleagues in your institute/organization/company & encourage them to participate and get benefitted.

Warm Regards
-Programme Coordinators