## REGISTRATION DETAILS

- No Registration Fee
- Do register using the following link:
  https://tinyurl.com/nhce-sttp
- Participation Certification will be issued to all the active partcipants on completion of feedback and assessments.
- Selection is on FCFS basis
- Last Date for Registration: 05.02.2021
- Intimation of Selected Candidates : 06.02.2021

## PARTICIPANTS

- Teaching and Technical staff from AICTE approved Engineering Colleges
- Industry professionals
- Research Scholars

### Industry Sponsored Labs at New Horizon College of Engineering



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### Chief Patron

**Dr. Mohan Manghnani**

Chairman,
New Horizon Educational Institutions,Bengaluru

### Patron

**Dr.Manjunatha**

Principal
New Horizon College of Engineering,Bengaluru

### Conveners

**Dr. R. J Anandhi**

Professor & HOD – ISE

**Dr. B Rajalakshmi**

Professor & HOD – CSE

**Dr. Sanjeev Sharma**

Professor & HOD – ECE

### STTP Coordinators ( Phase – III )

**Dr. L Srinivasan**
Associate Professor
Phone No.: 9003956767

**Mr.Gangadhar Immadi**
Sr. Assistant Professor
Phone No: 9986789040

**Email:  iseatnhce@gmail.com**

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## NEW HORIZON COLLEGE OF ENGINEERING

**Department of Information Science and Engineering**

Presents

AICTE Sponsored 6 Days Short Term Training Programme on



# Internet of Things (IoT) and its Applications

**8th  February – 13th February 2021
(Phase - III)**

**In Association with
Department of CSE & ECE, NHCE**



# www.newhorizonindia.edu

## About college:

New Horizon College of Engineering is an Autonomous college affiliated to Visvesvaraya Technological University (VTU), approved by the All India Council for Technical Education (AICTE) & University Grants Commission (UGC). It is accredited by NAAC with 'A' grade & National Board of Accreditation (NBA). New Horizon college of Engineering is located in the heart of the IT capital of India, Bangalore. The college campus is situated in the IT corridor of Bangalore surrounded by MNCs and IT giants.

NHCE has a scenic and serene campus that provides an environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE boasts of state-of-the-art facilities for its students. They are given utmost encouragement in their areas of interest by providing hi-tech facilities backed by faculty support.

## Recent Accolades:

▪ NHCE has secured All India Rank: 6th-25th (Band "A") in  ARIIA Ranking for the year 2020.
▪ New Horizon College of Engineering has been Ranked 114 amongst the Top Engineering Colleges across India, as per the NIRF 2020 Rankings, announced by MHRD, Govt.of India.
▪Honored with the distinguished **"EXCELLENCE IN PROVIDING PREFERRED ENVIRONMENT FOR CAMPUS PLACEMENTS"** award.

## About Department:

Information science and Engineering department focuses on current Information Technology trends, and Domain Specific Applications. The Department  was established in the year of 2001 and offers graduate, post graduate and PhD programs. The four year B.E degree equip the students to meet day- to- day Technological advancements of the ever dynamic IT field through adept training on various subjects of curriculum of Information Science and engineering and beyond. The department offers B.E program through autonomous scheme from the year 2015. The department has a total intake of over 380 students with a very good team of highly qualified and talented faculty members including Professors, Associate Professors and Assistant Professors.

### M.Tech

The department of Information Science and Engineering also offers 2 year M.Tech in Cyber Forensics and Information Security

### About Associated Departments:

**CSE:** The Department of CSE at NHCE was established in the year 2001 and offers graduate, post graduate and PhD programs. The department has been accredited by the NBA and has a total strength of over 700 students, with highly qualified, motivated and experienced faculty members.

**ECE:** The department of ECE is accredited by the NBA. The field of ECE is one that offers a whole new world of exciting challenges and opportunities. To automate or to interact with any device or a system, electronics plays the key role. Whether it is planetary mission or remote sensing, smart-city or self-driving cars, robots or smart mobiles or IoT, ECE  is at the core.

### Accreditation:



## STTP outcomes:

1.To Understand IoT concepts, underlying technologies and migration of M2M to IoT.
2.To Analyze the various features of IoT standard protocols and platforms
3.To Understand cloud platforms and interface IoT with cloud platforms.
4.To Understand the interface concepts with networks
5.To Design and develop real world IoT application.

### Program Contents :

| Day | Content |
|---|---|
| 1 | Arduino Software Introduction, Arduino Uno Introduction, Actuators Interfacing Part - 1 |
| 2 | Actuators Interfacing Part – 2, Sensors Interfacing Part – 1, Sensors Interfacing Part - 2 |
| 3 | NodeMCU Programming, Internet of Things and its  Applications |
| 4 | Rasberry pi OS Installation, Sensors Interfacing with Rpi, Actuators Interfacing with Rpi |
| 5 | SQLite on Rasberry pi Projects, Artificial Intelligence in IoT, An Overview of IoT Hardware Circuit Design using Tinkercad Online simulation tool |
| 6 | Security and Privacy in Internet of Things, Assessment |

Detailed schedule will be shared with shortlisted participants