One Week Faculty Training Programme on Internet of Things

(21st to 25th Jan 2021)

Registration Form

1. Name(BLOCK) :……
2. Designation:……..
3. Department:……
4. Gender : Male / Female
5. Address of the Institute : ……...
   ……
   ……
6. Qualification : ……
7. Experience (in years) :
   a. Teaching : ……yrs
   b. Industry : ……yrs
8. Communication details :
   E-mail : ……..
   Mobile:……...……
9. Accommodation requirement: Yes / No
10. Payment Details: online/offline

Place :
Date : Signature of the Candidate

Register through the following link
https://docs.google.com/forms/d/1le00luOJPkIQxli3bS4FyCqofGt5mzYBavKzMo51Lu8/edit?usp=sharing

Important Dates:
Last Date for Registration: 18.01.2021
Acceptance through e-mail: 19.01.2021

Registration:
The registration form is enclosed with this Brochure. Participants will have to pay a Registration Fee of ***Rs.500/-*** *(including refreshments, working lunch and stationery kit) to 9441960526 by online mode.*

GPay/Phonepe

Accommodation:
Lodging and Boarding will be provided for external participants on campus.

(Note: Maximum of 50 participants will be selected based on the receipt of registration forms)

Address for correspondence:
Dr. K.Nagi Reddy
Coordinator, Department of ECE,
N.B.K.R. Institute of Science & Technology,
Vidyanagar – 524 413, Nellore Dist. A.P.
Phone : 08624– 228247 (O)
Mobile : 9441960526
Email : knreddy1974@nbkrist.org

One Week Faculty Training Programme

on

Organized by

Department of ECE, NBKRIST

in association with

(21st to 25th Jan 2021)

N.B.K.R. INSTITUTE OF SCIENCE & TECHNOLOGY
(AUTONOMOUS)
College with Potential for Excellence
Affiliated to JNTUA, Ananthapuramu
Re-Accredited by NBA (TIER-I) & NAAC
VIDYANAGAR-524 413, **S.P.S.R. Nellore Dt., A.P.**
e-mail : ist@nbkrist.org, website : www.nbkrist.org
Phone: (08624) 228247.

Organizing Committee :

Correspondent : **Sri N.Ram Kumar**

Patron : **Dr. V.Vijaya Kumar Reddy**
Director

H.O.D. : **Dr. G. Harinatha Reddy**
Professor

Coordinator : **Dr.K.Nagi Reddy**
Professor

About the Institute:

NBKR Institute of Science & Technology established in 1979 is an Autonomous Institute affiliated to JNT University Anantapur. This Institute is reaccredited by NAAC (UGC) for the second cycle with "A" grade. All B.Tech courses are accredited thrice by National Board of Accreditation (NBA). UGC has granted the status of "College with Potential for Excellence (CPE)" to this Institute.

The Institute offers B.Tech programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering and Civil Engineering. M.Tech programmes are offered in Power Systems, Computer Science & Engineering, Digital Electronics & Communication Systems, Advanced Manufacturing Systems. The Institute has an R&D Cell and recognised research centres of JNT University Ananthpur offering Ph.D Programmes.

Guest lectures are regularly organized on latest trends by eminent industry experts, Entrepreneurs and HR managers.

The Institute is spread across a lush green 184-acre campus that houses academic blocks, Boys and Girls hostels, Open air auditorium, sports complex, staff quarters etc. The Institute focuses on skill and professional development of the graduates through student run clubs, technical associations. Professional chapters like IEEE, ISTE, IETE, CSI are a part of student's activities.

Department laboratories and Computer Centre has state-of-the-art equipment to fulfil the needs of the researchers, students and faculty. The central library is well-stocked with books, journals, magazines and newspapers. It subscribes thousands of e-journals, e-books. The e-resources can be accessed through the campus network.

There are adequate opportunities for co-curricular and extra-curricular activities helping students gain overall skills. Industrial visits and relevant field visits expose the students to hands-on learning experience.

Industry Institute Partnership Cell (IIP Cell) caters the needs of the Institute and Industry by way of internships, consultancy.

About the Department:

The department of ECE has 180 intake in UG and 18 intake in PG and consists of well-equipped laboratories, two well established computer centers with internet connectivity, excellent library & highly qualified faculty members to impart knowledge in the areas of DSP, Microprocessors, VLSI Design, Embedded System, RF Satellite, Optical & Wireless Communications.

Programme Objective:

The Internet of Things (IoT) has evolved from the convergence of wireless technologies, MEMS and the Internet. By connecting 'things' in the real world such as cars, buildings and industrial equipment, IoT promises to revolutionize how we live and work. The IoT market is likely to experience around 28% year-on-year growth, rising to 5.4 billion connections across the globe by 2021. This program aims at providing an opportunity for participants to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society. This workshop serves as a platform for research scholars, faculty, engineers and students to interact on cutting-edge technologies in IoT.

Course Content:

- *Introduction to Embedded Systems & SOC*
- *Getting started with Raspberry Pi*
- *Working with LEDs, Buzzers*
- *Integrating Relays and Sensors with R-Pi*
- *Discussion on IoT Platforms*
- *ThingSpeak and Pocket IoT*
- *I^2C – Inter Integrated Circuit*
- *Working with LCD and Membrane Keypad*
- *Introduction to Web Development*
- *Installation of Required Tools (Atom IDE, Filezilla and Hosting)*
- *Exchanging Data between HTML and PHP*
- *Introduction to phpMyAdmin and MySQL*
- *Continuation of Mini Project*
- *Discussion on Existing Cloud Apps (Heroku, OpenShift, AWS, SparkFun, ThingSpeak, Blynk)*
- *Hands-on with ThingSpeak/Blynk*
- *MQTT – MQ Telemetry Transport*