

## Faculty Development Program (FDP)

On

### “Microcontroller Based Embedded System Designing and Methodology”

Under the banner of

**Electronics and ICT Academy, NIT Patna  
and**

**In association with**

**Chaibasa Engineering College, Chaibasa,  
Jharkhand**

**From**

**19<sup>th</sup> - 23<sup>th</sup> February, 2019**

**at**

**Chaibasa Engineering College (Estd.By Govt.  
of Jharkhand & run by Techno India Under  
PPP), Chaibasa, Jharkhand**



#### Chief Patrons

**Prof. P.K. Jain**

Director, NIT, Patna

**Prof. Mohit Chatterjee**

Vice Chairman, Techno India

#### Patron

**Prof. (Dr.) Sudipta Chakraborty**

Director, Techno India

#### Coordinator (NIT Patna)

**Dr. Bharat Gupta**

#### Local Coordinator (CEC, Chaibasa)

**Prof. Saunak Bhattacharya**

#### Organized by

Electronics and ICT Academy, NIT Patna,

&

Dept of ECE, CEC, Chaibasa, India.

## About NIT Patna

National Institute of Technology Patna is the 18<sup>th</sup> National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. and Mechanical Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

## About Chaibasa Engineering College, Chaibasa, Jharkhand

Chaibasa Engineering College, (Estd. By Govt. of Jharkhand & run by Techno India under PPP) is situated 12km north of Chaibasa town, District West Singhbhum, State Jharkhand. The College was started during 2013 in PPP model between Jharkhand Government and Techno India.

The college started with five engineering faculties- Mechanical, Civil, Electrical, Electronics & communication and Computer science engineering with the approval of AICTE and KOLHAN UNIVERSITY having intake capacity of 60 in each branches

The college is running with highly educated & well experienced faculty members, state of art Laboratories, Due to availability of good educational infrastructure CEC is recognized as Remote Centre of IIT Bombay. Besides, IIT Kharagpur recognized CEC for NPTEL local chapter.

2017 we have received prestigious TEQIP phase III project, funding assistance by MHRD, Central Govt. & World bank. Several quality improvement programs have started under this project.

## Electronics and ICT Academy

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

## Objective and Scope

The main objective of this FDP is to make the aspiring academicians/engineers acquainted with the conceptual as well as practical knowledge of the intended to give theoretical background and hands-on experience in hardware & software development for embedded system.

By the end of the program, the participants should be able to understand the technical core issue of the following topics:

- Describe the differences between the general computing system and the embedded system, also recognize the classification of embedded systems.
- Design real time embedded systems using the concepts of RTOS.
- Analyse the data transfer information through serial & parallel ports
- train their practical knowledge through laboratory experiments
- Develop an appreciation for the teachers training in view of changing role and responsibility of engineering faculty.
- Able to understand fundamental of elements of effective teaching and learning.

## Resource Persons

1. Prof.(Dr) Pradip Kumar Sadhu ( Ex HoD Department of EE , IIT Dhanbad )
2. Prof. S C Bera ( Professor in Department of Applied Physics , University of Calcutta)
3. Prof. Mohit Chatterjee ( Vice Chairman ,Techn India )

4. Prof (Dr) Sudipta Chakraborty ( Director , Techno India Group)
5. Dr. Palash Pal ( Principal , Dumka Engineering College )
6. Dr. Bishnu Chattopadhyay ( Principal , Silli Polytechnic )
7. Dr. Rajan Sarkar ( HOD , Department of EE , Asansol Engineering College)

### Who Can Participate

Industry personals, Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, Research scholars, M. Tech. final year students, However there are very limited number of seats for Ph.D. /PG students; priority will be given to Ph.D. students.

### Registration Fee

- + Faculty Member: Rs 1500/-
- + Research Scholar/ PG students : Rs 500/-
- + Industry Personnel: Rs 2500/-

Registration fee includes Registration kit, Tea and Snacks and a Course Completion Certificate. **Certificate will be given by Electronics & ICT Academy NIT Patna.**

### Registration Process

1. Registration form should accompany a single demand draft as applicable, which should be drawn in favour of "The Director, NIT Patna" payable at Patna. Online payment can also be done :  
Account Name: NIT Patna,  
Account No : 50380476798,  
IFSC Code: ALLA0212286
2. The form must be filled properly, duly signed endorsed by the competent authority and can be scanned and mailed to us at the address [cecchaibasaworkshop@gmail.com](mailto:cecchaibasaworkshop@gmail.com)
3. Selection will be made purely on First-Come-First- Serve basis (Subject to fulfilling the eligibility criteria).
4. The brochure and the registration form may be downloaded from the Institute website <http://www.nitp.ac.in/ict> and [chaibasaengg.edu.in](http://chaibasaengg.edu.in)
5. **The registration fee can also be deposited in cash.**

**Last date of submission of application: 16<sup>th</sup> February, 2019.**

### Address for Correspondence

#### Enquiry should be addressed to:

**Prof. Saunak Bhattacharya**, Head of Department,  
Dept. of Electronics & Communication Engineering,  
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Jharkhand & run by Techno India Under PPP)  
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**Mr . Saurabh Ranjan**, Assistant Professor  
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### Advisory Committee

Prof. Bharat Gupta, ECE, NIT Patna  
Dr. Sudipta Chakraborty , Director TIG  
Dr. Suchismita Mirta , CEC Chaibasa  
Dr. Sumit Saha ,CEC Chaibasa  
Dr. Dinbandhu Mandal, CEC Chaibasa  
Dr. Subasish Karmakar, CEC Chaibasa

### Organizing Committee

Prof. Saunak Bhattacharya , CEC Chaibasa  
Dr. Hemanta Ghosh , CEC Chaibasa  
Mr. Bappaditya Jana, CEC Chaibasa  
Mrs.Beas Bhattacharya , CEC Chaibasa  
Mr. Subhadip Pan , CEC Chaibasa  
Mr. Anil Kumar, CEC Chaibasa  
Mr. Saurabh Ranjan , CEC, Chaibasa

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### REGISTRATION FORM

1. Name (block letter): .....

(a) Gender  Male  Female  
(b) Category  Gen  OBC  SC  ST

2. Adhaar Number:.....

3. Designation .....

4. Organization: .....

5. Highest Academic Qualification: .....

6. Experience (in years):

(a) Teaching: .....

(b) Industrial: .....

7. Address for communication: .....

.....

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Pin code: ..... Ph. No.: .....

Fax No.: .....

E-mail: .....

8. Mode of Payment  Through DD

Through NEFT

CASH

9. DD No./NEFT Trn Ref no. : .....

Date: .....

Bank Name:.....

Amount: .....

### DECLARATION

**I do hereby agree to abide by the rules and regulations of the FDP.**

Place: .....

Date: .....

.....  
Signature of the applicant