

**AICTE-VTU Joint Training Programme  
for Teachers from AICTE Approved &  
VTU Affiliated Technical Institutions**

**One Week Training Programme for Teachers**

**On**

**“An Overview of Teaching Techniques  
in Basics of Electronics and  
Communication Engineering”**

*(A Training Programme for faculty Members of VTU  
Affiliated Institutions)*

**REGISTRATION FORM**

Name: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mobile: \_\_\_\_\_

If selected, I agree to abide by the rules and regulations of  
the training programme of VTU-HRDC and shall attend  
all the sessions compulsorily.

Date: \_\_\_\_\_ Signature of the Applicant

Recommended and Forwarded

Signature of the Head of the Institute

**CHIEF PATRON**

**Dr. Karisiddappa**

Hon'ble Vice Chancellor, VTU, Belagavi

**PATRONS**

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Registrar, VTU, Belagavi

**Dr. Rangaswamy B E**

Registrar (Evaluation), VTU, Belagavi

**Mrs. A. Sapna**

Finance Officer, VTU, Belagavi

**Dr Sudarshan Reddy H R**

Coordinator, VTU Cpgs, VIAT, Muddenahalli

**University Coordinator**

**Dr. N Chikkanna**

Regional Director (I/c), VTU Regional Office, Bengaluru

**Program Coordinator**

**Dr. Sarika Raga**

Associate Professor & Program Coordinator, Dept. of

ECE,

VTU-CPGS, Muddenahalli

**ORGANISING COMMITTEE**

**Dr. Dinesh Rangappa**, Professor & Prog. Coordinator, Dept. of NT

**Dr. Thirtha Prasad H.P.**, Associate Professor, Dept. of CAE

**Dr. Basawarj**, Assoc. Prof. & Chairman, Dept. of APT

**Dr. Shivamuthy G.**, Asso. Prof. & Prog. Coordinator Dept. of CSE

**Dr. Pankajakshi R.**, Assoc Professor, Dept. of MBA

**Dr. H.H. Ramesha**, Program Coordinator, Dept. of MBA

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**Mrs. Veenarani K.**, Asst. Professor, Dept. of MBA

**Mrs. Renuka Malge**, Asst. Professor, Dept. of MCA

**Mr. Yadhunaik B H.**, Asst. Professor, Dept. of MCA

**Mr. Vinod Kumar G.**, Sr.Asst.VTU RO, Bengaluru

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**13<sup>th</sup> Dec 2021 – 17<sup>th</sup> Dec 2021**



**Organized By:**

**VTU- Human Resource Development Cell (HRDC)  
Visvesvaraya Technological University  
Centre for Post Graduate Studies  
Bengaluru Region, Muddenahalli  
Chikkaballapur-562101**

**Venue: Online**

**Platform: Google meet**

## About the VTU

Visvesvaraya Technological University (VTU) named after Bharat Ratna Dr. Sir M. Visvesvaraya established on 1st April 1998, as per the VTU Act 1994 of the Government of Karnataka. University has been established by the Government of Karnataka in order to promote planned and sustainable development of technical education and has its Head Office located in Belagavi in the state of Karnataka. Reckoning the fact that, University is a seat of confluence of knowledge and as a technological University, Visvesvaraya Technological University does not restrict itself only to curricular activities but also emphasizes on the overall growth of knowledge in society and hence its campus in Belagavi is named aptly as “Jnana Sangama”. The University has jurisdiction over the whole state of Karnataka. VTU has established four regional centers at Bengaluru, Mysuru, Kalburgi and Belagavi for administrative convenience. VTU is one of the prestigious and largest technological Universities in the India having one Constituent College, 220 Engineering colleges and 20 Autonomous Colleges.

VTU is imparting technical education to more than a lakh students under its 35 Undergraduate & 94 Postgraduate Programs. VTU is offering Doctoral programs in 865 departments in various affiliated Colleges which have been recognized as research centers. Around 5000 Research Scholars are perusing for Doctoral and M.Sc. (Engineering) By Research programmes. VTU has established full-pledged Centers for Post Graduate Studies at Muddenahalli, Kalburgi, Belagavi and Mysuru.

## About AICTE, New Delhi

All India Council for Technical Education (AICTE) was set up in November 1945 as a national-level apex advisory body to conduct a survey on the facilities available for technical education and to promote development in the country in a coordinated and integrated manner. And to ensure the same, as stipulated in the National Policy of Education (1986), AICTE was vested with:

- Statutory authority for planning, formulation, and maintenance of norms & standards
- Quality assurance through accreditation
- Funding in priority areas, monitoring, and evaluation
- Maintaining parity of certification & awards.

## About the VTU PG Centre, Muddenahalli

The Visvesvaraya Technological University, Post Graduate Center, Bengaluru Region, Muddenahalli has 200 acres campus located at Muddenahalli, Chikkaballapura (Dist). Muddenahalli is the birth place of great legend Bharata Ratna Sir M. Visvesvaraya. It has all necessary infrastructure required for imparting quality education through its well-structured administrative and academic staff for overall development of student's personality. Center for PG Studies has five full time post graduate programmes in M.Tech, MBA and MCA. All the departments have wellqualified faculty.

### PROGRAMME OBJECTIVES AND OUTCOME:

VTU-NEP Orientation of the ‘Basic Electronics & Communication Engineering’ subject, studied by every first-year engineering student, focuses on developing the end-to-end overview of the ECE domain. The syllabus of ‘Basic Electronics & Communication Engineering’ consists of five distinct modules. Module 1 encompasses the basic terminology and principles involved in ‘Electronic Circuits’. The topics – Power Supplies, Amplifiers, operational amplifiers and oscillators are covered which are very much essential for any electronic circuit design and development.

Module 2 focuses on the basic building blocks and truth table approach of ‘Logic Circuits’ required for developing digital electronics skills in the student.

Embedded Systems control many devices in common use today. The introduction to the working, types and applications of Embedded Systems along with the sensors, actuators and interfacing with focus on communication interface is presented in Module 3.

The electronic communication part is covered in two modules. Module 4 describes the analog and digital communication basics with a block diagram approach, followed by the concepts of radio wave propagation, Sampling theorem, radio signal transmission, multi-path & fading, antennas, etc.

Module 5 brings out the features of the various modern communications viz., cellular networks, wireless network topologies (with elucidation on various generations from 1G, 2G, GSM, 3G to 4G), Satellite communication, optical fiber communication and microwave communication. This helps the student to be technically aware of the current communication technologies being used everyday across the globe.

A lab component as a part of the CIE is also introduced, listing hardware and software experiments designed to better understand the basic working of the electronics circuits studied in the course.

- | To demonstrate the ability to create models for trusses, frames, plate structures, machine parts, and components using FEA general-purpose software;
  - | To model multi-dimensional heat transfer problems using ANSYS;
  - | To demonstrate the ability to evaluate and interpret FEA analysis results for design and evaluation purposes;
  - | To develop a basic understanding of the limitations of the FE method and understand the possible
- Error sources in its use

### Resource Persons:

Renowned Experts from reputed Institutions, Senior Faculties of VTU and Industry Experts.

**Eligibility:** Teachers from AICTE Approved and VTU Affiliated Technical Institutes those who are interested in teaching the “Basics of Electronics and Communication Engineering” course.

**Registration Fee:** No Registration Fee

**How to Apply:** Registration through Google link - <https://forms.gle/kYyKMCb4FiwjU52b7>

**Programme Timings:** Each day

- (i) First session; 10 am to 1 pm (3 hours).
- (ii) Lunch break: 1.0 pm to 1.30
- (iii) Second session: 1.30 pm to 4.30 pm (3 hours).

**Certificate:** The certificate of participation for the faculty who registers for the programme shall be issued, provided they satisfy the attendance requirement of 80 % of the 10 sessions held during five days of the programme and secure 60 % of the maximum marks (100) prescribed for formative evaluation and summative evaluation.

### Contact for Information:

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