



# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama", Belagavi - 590 018, Karnataka State, INDIA

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*Prof. A. S. Deshpande, B.E(Mech), M.Tech., Ph.D.*  
Registrar

Ref. No.: VTU/PS/2019-20/ 3303

Date: 16 AUG 2019

## CIRCULAR

Sub: Deputation of faculty for the AICTE – VTU joint Training Program for Teachers in AICTE's approved and VTU Affiliated Colleges between 26<sup>th</sup> – 30<sup>th</sup> August 2019 at VTU Centre for Post Graduate Centre, Muddenahalli - reg.

With reference to the above cited subject, this is to inform you that, AICTE – VTU is jointly organizing the Training Program for Teachers in AICTE's approved and VTU Affiliated Colleges. The objective of the training programs is to prepare them for being successful in a knowledge society.

As a part of the above, a training program is organized on "Effective Teaching Techniques in Digital Signal Processing" between 26<sup>th</sup> – 30<sup>th</sup> August 2019 at VTU Centre for Post Graduate Studies, Muddenahalli, Chickaballapur, Karnataka 562 101.

There will be no Registration Fee. Free accommodation & food will be provided and TA will be paid for outstation participants as per norms of the program.

**Eligibility:** The Faculty Members who are handling Digital Signal Processing at UG & PG level in Electronics & Communication Engineering /Electrical and Electronics Engineering / Telecommunication Engineering / Electronics and Instrumentation Engineering are eligible for participating in the Training Program.

### Contact Details:

**Dr. Sarika Raga**  
**Mrs. Reshma .M**

**Mob: 9481470671**  
**Mob: 9035014392**

You are hereby requested to bring the contents of this circular to the notice of all the concerned faculty of your college and encourage them to participate in this Training Program.

By Order,

  
REGISTRAR

To,

All the Principals of Affiliated / Constituent Engineering Colleges.

### Copy to:

1. The Hon'ble Vice-Chancellor through his Secretary, VTU Belagavi.
2. The Finance Officer, VTU Belagavi.
3. The Regional Director (I/c), VTU, Regional Offices at Bengaluru, Belagavi, Mysuru & Kalaburagi for information.

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

**One Week Training Programme for Teachers**

**On**

**“Effective Teaching Techniques in  
Digital Signal Processing”**

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

**REGISTRATION FORM**

Name & Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

Email: \_\_\_\_\_

**Declaration by the Applicant**

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 Institution

**CHIEF PATRON**

**Dr. Karisiddappa**

Hon'ble Vice Chancellor, VTU, Belagavi

**PATRONS**

**Prof. Anand S. Deshpande**

Registrar, VTU, Belagavi

**Dr. Satish Annagiri**

Registrar(Evaluation), VTU, Belagavi

**Mrs. M. A. Sapna**

Finance Officer, VTU, Belagavi

**CONVENER**

**Dr. N Chikkanna**

Coordinator, VTU CPGS, Muddenahalli

**Dr. Indumathi T. S,**

Professor, Dept. of DECS

**Dr. Sarika Raga, Assoc. Prof. &**

Prog. Coordinator, Dept. of DECS

**PROGRAMME COORDINATOR**

**Mrs Reshma .M**

Asst. Professor, Dept. of DECS

**ORGANISING COMMITTEE**

**Dr. G S Venkatesh**, Professor & Prog. Coordinator, Dept. of CAE

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

**Dr. Basawaraj**, Associate Professor, Dept. of APT

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

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

**Dr. H.H. Ramesha**, Associate Prof., Dept. of MBA,

**Dr. Pankajakshi R**, Assoc.Prof. & Prog. Coordinator, Dept. of MBA

**Dr. Prassana D .S**, Asst. Professor, Dept. of NT

**Dr. Ashwin C. Gowda**, Asst. Professor, Dept. of CAE

**Mr. Narayanaswamy G**, Asst. Professor, Dept. of CAE

**Mr. Sanjeev G Palekar**, Asst. Professor, Dept. of APT

**Dr. Lokesh S V**, Asst. Professor, Dept. of NT

**Dr. Kanta D Devanagavi**, Asst. Professor, Dept. of MCA

**Dr. Roopadharshini S**, Asst. Professor, Dept. of MBA

**Mr. Purushotham C J**, Asst. Professor, Dept. of MBA

**Mr. Lakshminayana K**, Asst. Professor, Dept. of MBA

**Mrs. Niveditha M U**, Asst. Professor, Dept. of MBA

**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

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

**One Week Training Programme for Teachers**

**On**

**“Effective Teaching Techniques  
in  
Digital Signal Processing”**

**26<sup>th</sup> - 30<sup>th</sup> AUGUST 2019**



**Organized by:**

**VTU- Human Resource Development Cell (HRDC)  
and Department of Digital Electronics and  
Communication Systems  
Visvesvaraya Technological University  
Centre for Post Graduate Studies  
Bengaluru Region, Muddenahalli  
Chikkaballapur-562101**

**Venue:**

**VTU Centre for Post Graduate Studies  
Bengaluru Region, Muddenahalli  
Chikkaballapur-562101  
Seminar Hall**

### 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. VTU 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 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, Kalaburagi and Belagavi for administrative convenience. VTU is one of the prestigious and largest technological Universities in the India having affiliation of 220 Engineering colleges and 20 Autonomous Colleges and one Constituent College.

VTU is imparting technical education to more than 4.5 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. (Engg.) programs. 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 programs in M.Tech, MBA and MCA. All the departments have well qualified faculty.

#### About Digital Electronics & Communication Systems:

M.Tech. in Digital Electronics & Communication Systems (DECS) is established in the year 2011 with an intake of 25 students. Department of DECS is committed to provide thorough understanding and application of core knowledge in design of Digital Communication Systems. Also encourage student's analytical and problem solving skills, creative thinking, and adoptability to rapid changes in the industry and societal issues.

#### PROGRAMME OBJECTIVES:

The objective of the AICTE – VTU Training Programme is to conduct training for the faculty members to prepare them for being successful in a knowledge society and fulfill the following important Teaching Techniques in a subject.

- Understand the frequency domain sampling and reconstruction of discrete time signals.
- Study the properties and the development of efficient algorithms for the computation of DFT.
- Realization of FIR and IIR filters in different structural forms.
- Learn the procedures to design of IIR filters from the analog filters using impulse invariance and bilinear transformation.
- Study the different windows used in the design of FIR filters and design appropriate filters based on the specifications
- Understand the architecture and working of DSP processor
- Applications of DSP

#### PROGRAMME OUTCOME:

- Determine response of LTI systems using time domain and DFT techniques.
- Compute DFT of real and complex discrete time signals.
- Computation of DFT using FFT algorithms and linear filtering approach.
- Design and realize FIR and IIR digital filters and Understand the DSP processor architecture

#### Resource Persons:

Renowned Experts from reputed Institutions like IISc., Bengaluru, IIT's, NIT's and Senior Faculties of VTU.

**Eligibility:** Teachers from AICTE Approved and VTU Affiliated Technical Institutes are eligible to participate. Those who are handling Digital Signal Processing subject for UG & PG Students.

**Registration Fee:** There is no Registration Fee

**Accommodation & Food:** For Outstation Participant's Free accommodation and for all participants Food will be provided in institute hostels.

**TA will be provided to the outstation Participants as per the norms of the programme.**

#### How to Apply:

Interested and eligible candidates may apply by submitting the hard copy of the filled in registration format given in this brochure to **The Coordinator, VTU Center for PG Studies, Muddenahalli** and also by sending the scanned copy of the filled in registration form by e-mail to [vtucpgsb@gmail.com](mailto:vtucpgsb@gmail.com) on or before **23<sup>rd</sup> August 2019**.

#### Selection of the Participants:

AICTE-VTU Training Programme will be of FIVE Days residential programme with minimum 40 participants. Selection will be on first cum first serve basis. Selected candidates will be intimated by e-mail on **24<sup>th</sup> August 2019**.

#### Contact for Information:

Dr. Sarika Raga                      Mob: 9481470671  
Mrs. Reshma .M                      Mob: 9035014392

Email: [vtucpgsb@gmail.com](mailto:vtucpgsb@gmail.com)