

## QIP SPONSORED SHORT TERM COURSE

ON

### DISTRIBUTED ESTIMATION AND CONTROL IN NETWORKED SYSTEMS (DECNS)

06-02-2017 TO 11-02-2017

#### Coordinators

**Prof. Bibhuti Bhusan Pati**

**Dr. Bikramaditya Das**



Organized by  
DEPARTMENT  
OF  
ELECTRICAL ENGINEERING & EEE



Venue: Golden Jubilee Seminar Hall

VEER SURENDRA SAI  
UNIVERSITY OF TECHNOLOGY ODISHA,  
P.O:- ENGINEERING COLLEGE, BURLA,  
SAMBALPUR - 768018  
[www.vssut.ac.in](http://www.vssut.ac.in)

#### ELIGIBILITY

The course is open to all teachers of degree level technical/engineering colleges/institutions approved by AICTE. No course fee is charged for participants sponsored by AICTE approved institutions. However, a caution money deposit of Rs.1000/- has to be sent by the provisionally selected participants, which will be returned when participant joins for the course. The payment is to be made by DD drawn on any Nationalized Bank and in favor of **Co-ordinator QIP STC ON DECNS, payable at Burla.**

#### FINANCIAL ASSISTANCE

Limited number of participants from the AICTE recognized institutions will be eligible for III AC to and fro railway fare (via shortest route from the place of work). Only the candidates attending the full course will be eligible for TA and DA.

#### BOARDING & LODGING

Boarding and lodging facilities shall be provided by the University for the candidates from AICTE approved institutions.

#### IMPORTANT DATES

The last date for receipt of duly filled applications is **21<sup>st</sup> January, 2017**. Intimation of selection of candidature will be communicated through e-mail by **22<sup>nd</sup> January, 2017**. Final selection notification will be given after receipt of DD and willingness to attend the course.

Interested candidates may send an advance copy of the completed application by fax/email to avoid procedural/postal delay.

#### SPONSORSHIP

##### For applicants from AICTE approved institutions

Prof./Dr./Mr./Ms. \_\_\_\_\_ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course "**DISTRIBUTED ESTIMATION AND CONTROL IN NETWORKED SYSTEMS (DECNS)**" at VSSUT, Burla to be held from 06 - 11<sup>th</sup> February, 2017, if selected.

Date: \_\_\_\_\_ Signature of sponsoring authority

Office Seal: \_\_\_\_\_ Designation

The duly completed application should be emailed to:

**PROF. BIBHUTI BHUSAN PATI**  
COORDINATOR, QIP SHORT TERM COURSE ON  
**DISTRIBUTED ESTIMATION AND CONTROL IN NETWORKED SYSTEMS (DECNS)**  
DEPARTMENT OF ELECTRICAL ENGINEERING  
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY ODISHA,  
P.O:- ENGINEERING COLLEGE, BURLA, SAMBALPUR-768018,  
ODISHA, INDIA  
Mob. 9437336969, 9437420409  
FAX:-0663-2430204  
EMAIL: [decns2016@gmail.com](mailto:decns2016@gmail.com)

## SCOPE & OBJECTIVES

- To carry out qualitative & quantitative future research work
- To focus future challenges of communication in Control
- To analyze concurrent & sequential engineering in Networked Systems
- To be aware of recent challenges in the field of Networked Control Systems
- To study reliable, economical & efficient means of Networked Control Systems
- Review of current communication & tracking issues in Networked Systems
- Hands-on-experience with simulation techniques in the field of Networked Systems
- To be conversant with various Distributed Estimation and Control In Networked Systems
- To be conversant with technologies helpful for higher education.

## COURSE CONTENT

- Networked Control Systems
- Coordinated control and estimation over networks
- Multivehicle systems, flocking, and consensus
- Control under communication constraints: quantization, limited bandwidth, erasure channels
- Decentralized algorithms for computation over sensor networks
- Graph models for networks
- Network coding
- Distributed and decentralized signal processing
- Distributed and cooperative optimization
- Cooperation networked games
- Robust coordination
- Sensor networks
- Autonomous unmanned vehicles

## SPEAKERS

The course lectures shall be delivered by the faculty members of VSSUT, Burla and eminent speakers invited from NITs, IITs and other premier institutions of India.

## COURSE MATERIALS

Each registered participant will be provided with a set of comprehensive lecture notes.

## ABOUT US

Veer Surendra Sai University of Technology (VSSUT) Odisha was formed by Odisha Act 9 of 2009 by upgrading University College of Engineering (UCE), Burla to a non-affiliating Unitary State University which came into force from 1st day of July 2009. The University has fourteen departments covering all the major engineering, science and humanities disciplines, offering B. Tech., B.Arch., M. Tech., M.Sc. and Ph.D. programs. VSSUT is located at the foothill of Hirakud Dam – World's longest dam. Burla is known as Intellectual Capital of Odisha with VSSUT, Sambalpur University, VSS Institute of Medical Science and Research, Chipilima Agriculture College and Indian Institute of Management – all within a radius of 15 KMs. VSSUT is surrounded by metal and power industries and is referred as Odisha's "Growth Corridor". VSSUT campus is about 10 kms from Sambalpur railway station. Weather in Burla in January will be very pleasant. Woolen clothes would be required.

The Department of Electrical Engineering of Veer Surendra Sai University of Technology Odisha, Burla is one among the first branches to be instituted in 1956. While retaining its strength in traditional areas of engineering, the department grew with time, reflecting the needs of a changing society and established new areas of teaching & research in electrical engineering. The department is NAAC and NBA accredited.

Veer Surendra Sai University of Technology Odisha, Burla

**QIP Short Term Course on**

### **DISTRIBUTED ESTIMATION AND CONTROL IN NETWORKED SYSTEMS (DECNS)**

**06 - 11<sup>th</sup> February, 2017**

**Application Form**

- 1. Name (Block letter):**
- 2. Designation & Pay-scale:**
- 3. Organization:**
- 4. Date of Birth:**
- 5. Address for communication:**

Pin Code:                      Mobile:  
Fax:                                E-mail:

- 6. Academic Qualification (Please tick)**

(a) B.Tech.                      (b) M.Tech.                      (c) Ph.D.

- 7. Specialization:**

- 8. Experience (in years)**

(a) Teaching                      (b) Industrial                      (c) Research

- 9. Amount of TA requirement as per entitlement mentioned in the brochure (only for AICTE approved colleges)**

**Rs.:**

Please register me for the course entitled "**DISTRIBUTED ESTIMATION AND CONTROL IN NETWORKED SYSTEMS (DECNS)**" to be held at VSSUT, Burla during 06 -11<sup>th</sup> February, 2017.

Place:  
Date:

**Signature of the applicant**