



**Electronics and Telecommunication Department**  
*Bharatiya Vidya Bhavan's*  
**Sardar Patel Institute of Technology**  
**Presents**

**AICTE-ISTE Approved One Week STTP under  
Career Advancement Scheme(CAS) on  
"NUMERICAL TECHNIQUES IN ENGINEERING  
RESEARCH"  
(Hands on Practice)**

**11th to 15th December, 2017.**

**Organised by**

**Sardar Patel Institute Of Technology  
Munshi Nagar, Andheri (W),  
Mumbai 400 058  
Phone: 26707440/26708520 Extn.380**

**Vice Principal  
Dr. Y.S. Rao**

**Principal  
Dr. Prachi Gharpure**

### **About us:**

In 1957, the Bharatiya Vidya Bhavan conceived the idea of establishing an engineering college in Mumbai. It was on the 19th August 1962 that there was a huge gathering at the Bhavan's Campus in Andheri to inaugurate Sardar Patel College of Engineering (SPCE). In 1995 Self Financed Engineering Course were added to it and it functioned as SPCE (Unaided-wing) conducting Electronics Engineering, Computer Engineering and Information Technology courses and Masters course in Electronics since 2005 till 2008. These courses have earned a great reputation in the field of engineering education, as well as industry. Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, Unaided Wing from year 2005-2006 was established in its new building under the name and style of Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology and is affiliated to Mumbai University. Subsequently Electronics and Telecommunication course was started at graduate and post graduate level in the years 2006 and 2010 respectively. In addition to these programs Electronics and Telecommunication, Computer Engineering started Ph.D. program from 2012, MCA from 2016 and Electronics from 2017. University of Mumbai has conferred Autonomous Status to S.P.I.T. for a period of five years from the academic year 2017-18 to 2021-22.

### **About the Course :**

The program deals with the basic tools of Numerical Analysis. Key features of the program that will be covered are

- Partial differential equation.
- Linear & Non-linear equation.
- Ordinary differential equation.
- Case Studies
- Hands on Practice (Simulation)

### **Objective :**

- The goal of the course is to provide the participants with a strong background on numerical techniques and a basic knowledge on the theory that supports numerical algorithms.
- To understand numerical methods and how they apply to electrical and computer engineering.
- To apply the knowledge of these methods to solve practical problems with software tools.

### **Expected outcomes :**

After the completion of this course the Participants will be able to apply Numerical Techniques in various applications.

### **Who should attend :**

Research Scholars, Faculty and students pursuing degree in electronics and telecommunication, electronics and Computer Sciences.

**Course Content & Schedule (Monday to Friday)  
(10 to 1 & 2 to 5):**

Speaker	Content
Prof.(Dr.) M.B. Patil (IITB)	ODE, Solution Linear Equation (Hands on Practice)
Prof.(Dr.) Kumar Appiah (IITB)	Case Study, Hands on Practice.
Prof. (Dr) Madhu Belur (IITB)	Eigen Problems, ODE
Prof.(Dr) Mukesh Patil, RAIT,NERUL	GPU numerical computing of special mathematical functions.
Prof.(Dr.) Vishwesh Vyawahare, RAIT,NERUL	Functional analysis, introduction to numerical techniques.
Prof.(Dr.) Y.S. Rao (SPIT)	Real Time Signal Processing

**Registration :**

Please fill online registration at <http://www.spit.ac.in>

**Course fees:**

Registration charges of  
**Rs. 5000/-- (Non-ISTE MEMBER/Industry Personnel)**  
**Rs. 4500/-- (PG/PhD students & ISTE Members)**  
 in the form of Cash/Demand Draft/Cheque in favor of "S.P.I.T. Allied Division" payable at Mumbai should reach to us on or before 8th Dec, 2017 along with registration form. Charges will not be returned if candidate is selected and does not attend the course.

**Venue :**

Sardar Patel Institute of Technology , Munshi Nagar , Andheri (W)

**Contact Persons for Registrations :**

Prof. Amol Deshpande (EXTC Dept . Room No. 506)  
 Mail to:amol\_deshpande@spit.ac.in  
 Mob:8767039787 Extn: 386  
 Prof. Pallavi Malame (EXTC Dept. Room No.507 B)  
 Mail to: pallavi\_malame@spit.ac.in  
 Mob:9819832583 Extn:385

**Convener:**

Dr. Y S Rao,  
 Dean R&D  
 Phone: 26707440/26708520 Extn.: 380  
 Mob: 09820962870  
 ysrao@spit.ac.in

**College Web site :** [www.spit.ac.in](http://www.spit.ac.in)

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

**Designation:** \_\_\_\_\_

**Qualification:** \_\_\_\_\_

**Experience:** \_\_\_\_\_

**Institution:** \_\_\_\_\_

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

**Tel: (O)** \_\_\_\_\_ **(Extn.)**

**(M)** \_\_\_\_\_ **(R)**

**Payment by Cash/DD/Cheque drawn in the favor of**

**"S.P.I.T. Allied Division" payable at Mumbai of Rs.**

**6000/--**

**DD No:** \_\_\_\_\_ **Dated:** \_\_\_\_\_

**Bank:** \_\_\_\_\_

**Signature of the participant :**