

## OBJECTIVES

- To demonstrate how concepts of graphs can be applied to various areas of Science and Engineering
- To extract problems in Computer Science and its solution by connecting theories and practices of graphs.
- To explore directions of future research in Graph Theory.
- To enhance teaching skills in the areas of Discrete Mathematics, Data Structures and Computer Algorithms.
- To have hands on experience on NetworkX – a python based library for study of complex networks.

## RESOURCE PERSONS

### **Prof. Abhiram Ranade (IIT Bombay)**

Since 1995, Prof. Ranade is on the faculty of IIT Bombay, currently as a Professor of Computer Science and Engineering. He received doctorate in Computer Science from Yale University in 1989. His research interests are in Algorithms and Combinatorial Optimization.

### **Dr. Aditya Abhyankar (Savitribai Phule Pune University Pune)**

Dr. Abhyankar is a Dean, Department of Technology, SP Pune University He received M.S. & Ph.D. from Clarkson University, New York, USA. His research interests span Signal and Image Processing, Pattern Recognition, Wavelet Analysis, Biometric Systems and Bioinformatics, Machine Learning, Computer Vision, Data Analytics, Algorithms and its applications etc.

### **Himanshu Mishra (IIT Kharagpur)**

Himanshu has received INSPIRE Fellowship from Government of India. He is actively engaged in many science communities across the nation. His areas of interest include Algorithms, Programming and Simulation of various Python based Libraries and their usage in real life. He has contributed in development of python based library-NetworkX. He has to his credit many state-of-the-art projects like Google Summer of Code-15 ,Ping Me, Morse Talk ,etc.

## REGISTRATION FORM

Name of the Participant:

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Designation:

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Institute:

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Address for Correspondence:

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Contact No. :

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Email id:

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Signature of the Participant:

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Signature of the Principal/Director & Seal of the Institute:

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Date: \_\_\_\_\_

Place: \_\_\_\_\_

## Vidya Pratishthan's College of Engineering, Baramati



A  
NATIONAL WORKSHOP  
ON

## GRAPH THEORY AND ITS APPLICATIONS

on  
04<sup>th</sup> & 05<sup>th</sup> March'16

Organized by

Department of Information Technology

under the aegis of

Savitribai Phule Pune University

Open for

Academicians/Research Scholars &  
Industry Delegates



Vidya Pratishthan's College of Engineering  
Vidya Nagari, Bhigwan Road, Baramati  
Ph.: 02112 239527/239503 Website: [www.vpcoe.org](http://www.vpcoe.org)

## ABOUT VPCOE

Vidya Pratishthan's College of Engineering has student centered institutional development as a motto and committed to pursue academic excellence to develop a student with comprehensive technical knowledge and integrated personality. One of the founding tenets of VPCOE is to promote the academic interests of the students of rural background, in the context of the ever increasing competition within, and globalization of the technical education.

VPCOE has collaborations and academic exchange programs with Foreign Universities & research Labs for quality improvement in Education. VPCOE is a Remote Center of IIT Bombay and IIT Kharagpur under the National Mission on Education through ICT (MHRD, Govt. of India). VPCOE is also recognized as center for the project Quality Enhancement in Engineering Education (QEEE) by IIT Madras and MHRD Govt. of India. VPCOE has institutional memberships with professional bodies like Computer Society of India (CSI), IET, ISTE and IEEE.

## INFORMATION TECHNOLOGY DEPARTMENT

Department of **Information Technology** is committed to provide quality education in the field of Information Technology. The department believes in value addition that extends students' life beyond the knowledge. Qualified and devoted faculties, well equipped laboratories, motivated students and

progressive environment are the major strengths of the department. The collaborative working of faculty and students in the domains viz., Web Mining, Data Mining, Machine Learning and Pattern Recognition brings good learning culture in the department. Alumni of this department have received a well-rounded education and well position in MNCs and Govt. Organizations. The department faculties are deputed for various training programs, workshops and research fellowship programs in reputed institutions across the nation on regular basis.

## PROGRAMME DETAILS

Graph theory is essential in many fundamental subjects of computer engineering like, discrete mathematics, data structures, computer algorithms, theoretical computer science, etc. Many types of relations and process dynamics in physical, biological, social and information systems can be modeled using graphs. In computer science, graphs are used to represent networks of communication, data organization, computational devices, the flow of computation, etc. This workshop will highlight on all the important aspects of Graph theory.

## REGISTRATIONS

Participants can mail the scanned registration forms to [hod.it@vpcoe.org](mailto:hod.it@vpcoe.org) or online registrations can be made at [www.vpcoe.org](http://www.vpcoe.org)  
Reg. Fees : **Rs.500**  
**(Reg. Fees will be refunded upon successful completion of the workshop.)**

## PATRON

**Prof. V. U. Deshmukh**

## CONVENER

**Prof. Dinesh A. Zende**

Head, Department of Information Technology  
Email: [hod.it@vpcoe.org](mailto:hod.it@vpcoe.org)

## ORGANIZING COMMITTEE

Prof. Sheetal A. Takale

Prof. Pradeep M. Patil

Prof. Santosh S. Kare

Prof. Prashant T. Raut

Prof. Shridevi A. Swami

Prof. Vyankatesh V. Rampurkar

Prof. Keshav S. Bhagwat

Prof. Sahil K. Shah

Prof. Avinash J. Kokare

Prof. Kanchan M. Bhale

Prof. Ranjit P. Kolkar

## IMPORTANT DATES

Last Date of Receipt of Applications	29 <sup>th</sup> Feb'16
Confirmation to Participants	01 <sup>st</sup> March'16
Workshop Dates	04 <sup>th</sup> & 05 <sup>th</sup> March'16