

## Registration Fee (Including 18% GST)

### Earlybird Registration (By January 15, 2020)

Full-time Research Scholars: **Rs. 2950/-**

Faculties: **Rs. 4130/-**

Participants from Industry: **Rs. 5310/-**

### Late Registration (After January 15, 2020)

Full-time Research Scholars: **Rs. 3540/-**

Faculties: **Rs. 4720/-**

Participants from Industry: **Rs. 5900/-**

## How to Apply

1. Candidates must pay the registration fees (as per the rate given above) before doing the online registration.

2. The transaction id and transaction date are required while doing online registration.

3. After registration, the participants must send the transaction receipt via email to **wgcn.kochi@gmail.com**.

4. Application for WGCN 2020 is available online at

**<http://dca.cusat.ac.in/wgcn2020>**

The amount may be transferred online to **SBI CUSAT Branch**,

**A/C NUMBER: 67216724749**

**Beneficiary: Head, Department of Computer Applications**

**IFSC: SBIN0070235**

5. The number of participants is limited to 40. The candidates shall be selected on a first-come-first-serve basis.

6. The organizing committee holds the right to make appropriate modifications to the seat allocation if contingencies arise.

## Workshop Coordinator

Dr. B Kannan

Professor

Department of Computer Applications

CUSAT

## Joint Coordinators

Dr. Sabu M K

Associate Professor

Department of Computer Applications

CUSAT

Dr. Judy M V

Associate Professor

Department of Computer Applications

CUSAT

## General Instructions

1. The registration fee covers course kit, working lunch and tea/snacks.

2. No accommodation will be provided for participants.

3. The participants will not be entitled to the payment of any TA/DA.

## For Any Queries, Please Contact

Dr. Divya Sindhu Lekha

Mobile: +91 9895827665, Email: [divya\\_lekha@cusat.ac.in](mailto:divya_lekha@cusat.ac.in)

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Five Day National

# WORKSHOP ON GRAPHS & COMPLEX NETWORKS (WGCN 2020)

FEB 03-07, 2020

Sponsored by NBHM



सत्यमेव जयते  
Government of India  
National Board for Higher Mathematics

Organized by



Department of Computer Applications  
Cochin University of Science and Technology  
Cochin 682 022  
Kerala

## Cochin University of Science and Technology (CUSAT)

Cochin University of Science and Technology (CUSAT) was established in 1971 with the specific purpose of the development of higher education with particular emphasis on post-graduate studies in applied sciences, technology, industry, and commerce. Its vision is to strive for excellence, be competitive in technical education on a global basis, and to focus on knowledge assimilation, generation, and dissemination. In its pursuit of international excellence, CUSAT has established academic links with various Universities in India and abroad. The main campus is located nearly 1km off NH 544 (Old NH47), in South Kalamassery.

## Department of Computer Applications

Computer Applications is one of the thrust areas in Science and Technology. In appreciation of its growing importance in business and the industrial scenario, the University established the Department of Computer Applications (DCA) to facilitate research and human resources development in the subject. The Department offers Masters program in Computer Applications (M.C.A), M.Sc (CS) with specialization in soft computing and research program leading to Ph.D. / PDF.

## Workshop Content

- Graph Theory
- Introduction to Network Theory
- Complex Network Models
- Structural Network Properties
- Epidemic/Rumour Spreading
- Community Detection and Evolution
- Network Embedding
- Tools and Techniques for Network Analysis
- Networks Visualization
- Social Networks
- Financial and Economic Networks
- Network Analysis using Python

## About the Workshop

"Networks are everywhere, from the Internet to social networks, and the genetic networks that determine our biological existence."

- ALBERT-LÁSZLÓ BARABÁSI

Complex Networks are real-life generalizations of graphs. An in-depth understanding of graph theory is very crucial in understanding the structural complexities of networks. Comprehensive knowledge of algorithm analysis and design helps in understanding the dynamism of real-world systems.

Workshop on Graphs and Complex Networks 2020 (WGCN 2020) aims to bring together pioneers from mathematics, theoretical computer science and network science to impart their unequalled knowledge to the researchers and students.

This workshop will enhance the perception of students as well as researchers in graph theory, its application to network science, state-of-art in these areas along with their significant opportunities and challenges. The workshop will also provide a platform for the people in their early research career to interact with eminent speakers from prestigious institutions like IITs, IIIT, IIM, CMI, University of Kerala, CUSAT and various Engineering Colleges in Kerala. .

## Resource Persons

- Dr. Ambat Vijayakumar, Emeritus Professor, Department of Mathematics, CUSAT.
- Dr. Animesh Mukherjee, Assoc Professor, Department of Computer Science and Engineering, IIT Kharagpur.
- Dr. Anindya Chakrabarti, Professor, Indian Institute of Management Ahmedabad.
- Anuraj Mohan, Asst Professor, Department of Computer Science & Engineering, NSS College of Engineering, Palakkad.
- Jestin Joy, Asst Professor, Department of Computer Science, FISAT, Angamaly.
- Dr. Kannan Balakrishnan, Professor, Department of Computer Applications, CUSAT.
- Dr. Manoj Changat, Professor, Department of Futures Studies, University of Kerala.
- Dr. Rishi Ranjan Singh, Asst. Professor, Department of Electrical Engg & Computer Science, IIT Bhilai.
- Dr. Sasidevan V., Asst. Professor, Department of Physics, CUSAT.
- Dr. Sharad S. Sane, Adjunct Professor, Chennai Mathematical Institute.
- Dr. Yayati Gupta, Assistant Professor, Department of Computer Science & Engineering, IIIT Dharwad.

