



# **MINISTRY OF EDUCATION**

**PANDIT MADAN MOHAN MALAVIYA NATIONAL  
MISSION ON TEACHERS AND TEACHING**

## **TEACHING LEARNING CENTRE & DEPARTMENT OF COMPUTER SCIENCE RAMANUJAN COLLEGE**

**(Accredited Grade 'A' by NAAC)**

**UNIVERSITY OF DELHI**

**IN COLLABORATION WITH**

**OPEN TECHNOLOGY FORUM (OTF)**

**AND**

**ASSOCIATION FOR PROMOTION OF FREE  
AND OPEN-SOURCE TECHNOLOGIES  
(AFROST)**

**IS ORGANISING**

**ONLINE TWO-WEEK REFRESHER  
COURSE IN COMPUTER SCIENCE**

## **NEXT GENERATION TECHNOLOGIES**

**29 JUNE - 13 JULY 2021**

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**CALL FOR REGISTRATION  
AND PARTICIPATION**

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## **TEACHING LEARNING CENTRE, RAMANUJAN COLLEGE**

The Ministry of Education (erstwhile, Ministry of Human Resource Development) launched the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) in 2014.

### **OBJECTIVES OF THE MISSION**

- Facilitate teacher training by constituting Teaching Learning Centers
- Encouraging Teaching Learning Centers (TLCs) to promote new pedagogical practices, methodology of forming discipline-specific curricula and creating new learning materials (including e-content) for use by the teachers in colleges and postgraduate departments.
- It is envisioned that the TLCs will accelerate the teaching-learning process by encouraging independent critical and creative thinking and facilitating research for subject specific growth.
- The TLCs will assist the faculty in capacity building for curriculum designing, scientific assessment and evaluation and the development of innovative academic programs to strengthen the inclusive nature of higher education.
- The TLCs are also encouraged to reach out to teachers teaching in regionally disadvantaged locations.

The focus is not only on 'what is taught' but also importantly, to 'the way it is taught,' in an effort to develop and enhance individual education, that will eventually go on to define the manner in which the future generations would work and live.

The Teaching Learning Centers offer

- Faculty Induction Programs (FIPs) for newly recruited faculty and Faculty Development Programs (FDPs) for teachers with experience
- Update their field of knowledge, expertise and skill with the latest available research, resources and technology. In the FDPs, special emphasis is given to inter and cross-disciplinary methodologies of study.

Due to COVID-19 Pandemic, teachers are missing in-person classes. To address this situation, UGC has intensified its efforts to have a strong virtual engagement with the students through email/social media platform and hosting lectures using Google Class Room and other video-conferencing platforms. Keeping in view the immense benefits and reach of online courses in the present academic set-up, the Teaching Learning Centre Ramanujan College, University of Delhi is offering a Two-week Refresher Course in Computer Science on the theme "Next Generation Technologies" for faculty members and research scholars of higher education.

## THEMATICS

- Education Transformation through Technology (ET3) and New Tools
- Cloud Computing & Edge Computing
- 5G
- Cryptography
- Blockchain
- Open Source Era
- Data Privacy and Security
- Machine Learning and Artificial Intelligence
- Internet of Things (IoT)

## RESOURCE PERSON



**DR. NEETA VERMA**

DIRECTOR GENERAL  
NATIONAL INFORMATICS CENTRE,  
GOVERNMENT OF INDIA



**PRIYANKA SHARMA**

GENERAL MANAGER, CNCF (CLOUD  
NATIVE COMPUTING FOUNDATION)  
SAN FRANCISCO, USA



**BRIAN BEHLENDORF**

EXECUTIVE DIRECTOR FOR  
HYPERLEDGER,  
USA



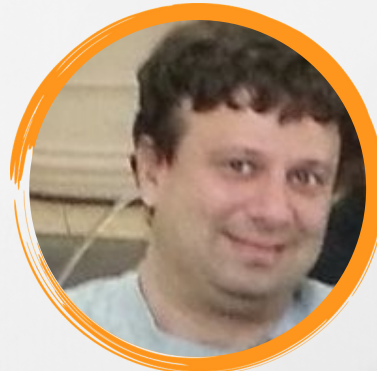
**JONATHAN BRYCE**

EXECUTIVE DIRECTOR, OPENSTACK  
FOUNDATION, FOUNDER ,  
THE RACKSPACE CLOUD,  
AUSTIN, TEXAS, USA



**ARPIT JOSHIPURA**

GENERAL MANAGER OF NETWORKING,  
IOT & EDGE, THE LINUX FOUNDATION,  
SAN FRANCISCO, USA



**FARHAD SUNAVALA**

SENIOR CLOUD INFRASTRUCTURE  
ARCHITECT - NVIDIA,  
CALIFORNIA, USA



**RICARDO ROCHA**

CLOUD COMPUTING ENGINEER,  
CERN,  
SWITZERLAND



**PROF. ANDREAS KASSLER**

KARLSTADS UNIVERSITET,  
SWEDEN



**TINA ZOU (TINA TSOU)**

ENTERPRISE ARCHITECT, ARM & TSC  
CHAIR, AKRAINO; LF EDGE,  
USA



**SUJATA TIBREWALA**

ONEAPI WORLDWIDE DEVELOPER  
COMMUNITY MANAGER,  
INTEL CORPORATION,  
USA



**DR. MALINI BANDARU**

OPEN SOURCE LEAD FOR IOT & EDGE  
VMWARE, OPEN SOURCE  
TECHNOLOGY CENTER,  
SAN FRANCISCO, USA



**ANIMESH SINGH**

IBM DISTINGUISHED ENGINEER  
AND CTO, WATSON DATA AND  
AI OSS PLATFORM,  
SAN FRANCISCO BAY AREA, USA



**PRAKASH RAMCHANDRAN**

CO-FOUNDER: EMERGING OPEN TECH  
FOUNDATION, FORMERLY, AT&T MOBILITY;  
AT&T LAB; DELL TECHNOLOGIES,  
USA



**DR. UMAKANT RAPOL**

ASSOCIATE PROFESSOR, INDIAN  
INSTITUTE OF SCIENCE EDUCATION  
AND RESEARCH (IISER),  
PUNE, INDIA



**PROF. KANNAN MOUDGALYA**

INDIAN INSTITUTE OF TECHNOLOGY,  
BOMBAY,  
MUMBAI, INDIA



**ARIF KHAN**

SENIOR VICE PRESIDENT,  
VOEREIR AB,  
SWEDEN



**PROF. MONI MADASWAMY**

PROFESSOR EMERITUS & CHAIRMAN  
(CIDS & CITS)&  
FORMER DIRECTOR GENERAL  
NATIONAL INFORMATICS CENTRE  
GOVERNMENT OF INDIA



**PROF. VIPIN PAVITHRAN**

FOUNDER AND CHIEF  
MENTOR OF FOSS & TEAM  
BIOS, AMRITA UNIVERSITY,  
INDIA

## RAMANUJAN COLLEGE

Ramanujan College is a University of Delhi college, located in the well-known area of Kalkaji, near Nehru Place, in South Delhi. Ramanujan College has highly qualified, dedicated, and committed faculty members. The college runs 16 courses in different subjects in Humanities, Commerce and Science streams. It is also the study centre for the students of the the Non-Collegiate Women's Education Board University of Delhi, and the Indira Gandhi National Open University. The college also runs several professional courses. The teachers of Ramanujan College are highly motivated and have original, published academic and creative work, including journals and other print media articles and educational film making to their credit. Ramanujan College is a premier institution of the University of Delhi and has been accredited grade "A" by the National Assessment and Accreditation Council (NAAC). We at Ramanujan College emphasize the holistic development of personality, meaningful exposure to real-world, and inculcating practical skills amongst our students apart from ensuring academic excellence.

### **Enrichment Spectrum at the Teaching Learning Centre (TLC), Ramanujan College**

- Emphasis on creating self-learning space for students
- Hands-on assignments and live projects
- Expert guidance on live projects and follow-up tasks
- Provision of study content (wherever required)
- Developing appropriate attitudinal orientation
- A learning experience for personality enrichment
- Augmentation of professional capabilities
- Co-creation and mutual contribution between participants and facilitators
- Access to global resources
- Adaptation skills for the dynamic contemporary environment



## OPEN TECHNOLOGY FORUM

Open Technology Forum (OTF) is a subgroup of the Social Purpose Organization (SPO) Emerging Open Tech Foundation (eOTF), which is a registered firm under section 8 Companies Act (India) as of May 14, 2021. Previously in 2016, the proposed name was “Emerging Technology for Engineers”. Domain was acquired and a website was established for Open Tech Foundation.

The objective of the organization is to help improve digital collaboration amongst various global and local Open Organizations (technology, operations, software source, hardware infrastructure, data domains, vertical industry solutions) to accelerate industry adoption.

The eOTF timeline will reflect two horizons, near-term -- representing less than 5 years covered by Open Technology Forum (OTF) -- and medium-term -- representing between three and ten years in time covered by Emerging Technology Forum (ETF).

Over the last 5 years, OTF meetup group has organized over 20 events, spanning Open Infrastructure mini-summits, upstream days for Cloud and NFV/SDN, and AI/ML meetups for India's Digital Transformation. Due to the Covid-19 pandemic, OTF hosted a virtual event OTF Techfest 2020 at the end of the year. eOTF (OTF and ETF) welcomes sponsorships and participation to realize and accelerate the vision for 2030 for India taking her place in the global sphere and uplifting her people with Transformation Through Technology (T3).

# AFROST

AFROST (Association for Promotion of Free and Open-Source Technologies) was born with a vision to support and sustain the Free and Open Source Software communities and their culture.

We are a group of technology enthusiasts who have benefited and grown as leaders by living and learning in FOSS communities. AFROST strives to give back by helping to sustain and support in growing these communities.

Our mission is to create India's future Open Source leaders by nurturing talent through mentorship, building communities by supporting them with resources, and forging partnerships with industry, policy makers, and stakeholders in the Ecosystem.

**Vision:** Creating India's future Open Source leaders by nurturing talent, building communities and forging partnerships.

**Mission:** Build and support sustainable free and open source software communities

**Objective:** Create an ecosystem for free and open source developers to learn and grow.

## COMMUNITIES AND PROGRAMS WORKING WITH

PyCon India, OpenStreetmap , Datameet

PyCon India 2018, 2019, 2020, 2021

PyConf Hyderabad 2020

Fossevents.in

## REGISTRATION PROCESS & PAYMENT DETAILS

### ELIGIBILITY

Faculty members and research scholars from the discipline of Computer Science and allied disciplines are eligible to apply for this Faculty Development Programme.

All those who meet the eligibility criterion are required to register and pay a **Non-Refundable fee of INR 1450/- by visiting** [rcmoocs.in](http://rcmoocs.in)

### REGISTRATION DEADLINE: 28 June 2021

After successful registration and payment, the participants will receive a confirmation via email. Please keep checking the spam folder of the email as the bulk email sent may end up in the spam folder.

An official group has been made for communication with the participants on "Telegram." You are therefore requested to install the Telegram App either from the Play Store or App Store. The link to join the official group will be provided in the confirmation mail.

**IMPORTANT:**

- Registration is mandatory for participation.
- Attempting and submitting all the quizzes and assignments are mandatory, and each participant should score a **minimum of 50% in total** to avail of the programme completion certificate.
- Graded certificates on the basis of performance will be awarded to the participants.
- As part of the Ministry of Education's requirement under the PMMMNMTT scheme, all participants need to submit online feedback for each session.
- Failing to meet any of the above conditions will result in denial of a certificate of completion to the participants.
- **No Objection Certificate (NOC) or Leave is NOT REQUIRED to participate in the Programme**

**For further information, write to us at:**

**[rccs2021@ramanujan.du.ac.in](mailto:rccs2021@ramanujan.du.ac.in)**

# ORGANISING BOARD OF THE REFRESHER COURSE

## **PROGRAMME CONVENOR**

**Nikhil Kumar Rajput**  
**Vipin Rathi**

## **ORGANISING SECRETARY**

**Sahil Pathak**  
**Bhavya Ahuja Grover**

## **ORGANISING TEAM**

**Kamlesh Kumar Raghuvanshi**  
**Sheetal Singh**  
**Arun Aggarwal**  
**Subodh Kumar**

## **RAMANUJAN COLLEGE**

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[www.rcmoocs.in](http://www.rcmoocs.in)