

A One-Week National Level Workshop on CLOUD COMPUTING, ROBOTICS & BLOCKCHAIN TECHNOLOGIES



Organized by
School of Engineering
in association with
IEEE Student Branch



Central University of Karnataka



ABOUT CENTRAL UNIVERSITY OF KARNATAKA

The Central University of Karnataka (CUK) has been established by an Act of the Parliament (No. 3 of 2009) at Kalaburagi, Karnataka. It is one of the 16 new Central Universities established by the Government of India during the UGC XI Plan Period to address to the concerns of 'equity and access' and to increase the access to quality higher education by people in less educationally developed districts which have a Graduate Enrolment Ratio of less than the national average of 11%. The CUK, with its territorial jurisdiction all over Karnataka has been initiated its activities from the academic year beginning August 2009 in keeping with the philosophy of achieving and maintaining the highest levels of academic excellence, sensitivity to equity and access in enrolment and recruitment and emerging as a premier national educational and research institution in the country. The University has 654 acres campus, situated near Kadaganchi village in the district of Kalaburagi, Karnataka State.

ABOUT SCHOOL OF ENGINEERING

The School of Engineering at Central University of Karnataka was started in 2013. The motto of the School is to create the new generation Engineers, capable of serving the society by providing high quality engineering solutions to address the problems of 21st century. The academic programs of the School of Engineering are focused on knowledge assimilation, dissemination and generation. The School is creating high quality infrastructure in terms of well qualified faculty, well equipped Laboratories, Computational facilities and high quality Learning Materials in various domains of engineering. In addition to such infrastructure, the School aims to create an ambience for learning and innovation for the students as well as the faculties.

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ORGANIZING CONVENORS

Dr. Uday Patil

Dr. Sangamesh Rajole

Dr. Nagaraj Yamanakkanavar

14th - 20th February, 2024



**Seminar Hall, Block D7 & D8,
School of Engineering, CUK**



www.cuk.ac.in

ORGANIZING COMMITTEE MEMBERS

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Mr. Divyanshu Saxena

Mr. Shivapratap Simha

Mr. Ayush Kumar Mishra

Ms. Kruteeka Samal



About the Workshop

Topics to be covered

Blockchain Development Session:

The Hands-on session on Blockchain development aims to provide participants with an understanding of the fundamental concepts and tools used in blockchain technology. Topics covered include cryptographic primitives used in blockchain, blockchain architecture design, bitcoin mining and consensus protocols, creating private blockchain networks using Go Ethereum, smart contracts programming using Solidity, advanced solidity concepts, various use cases of blockchain, and a complete blockchain developer toolkit. Participants will also learn about decentralized applications (DApps) and how they are built using blockchain technology.

Cloud Computing using AWS Session:

In the Hands-on session on Cloud Computing, participants will gain an introduction to cloud computing and its key concepts. They will learn about the benefits of cloud computing and get an overview of Amazon Web Services (AWS). The workshop covers topics such as launching EC2 instances on Windows and Linux, load balancer setup, auto-scaling, volume and snapshot management, troubleshooting steps for EC2 instances, setting up an AWS account, and hands-on experience with various AWS services like Simple Storage Service (S3), Identity and Access Management (IAM), Virtual Private Cloud (VPC), and management and monitoring tools like CloudWatch and CloudTrail. Real-world use cases and best practices will also be discussed during the workshop.

Robotics Session:

The Robotics session in the workshop will provide an introduction to robotics, coding, and programming. Participants will receive hands-on training on Emulators and learn about their functions and interaction with robots. They will also focus on Arduino Programming to program and control robotic devices using Arduino boards. The session will cover sensors and actuators, followed by practical exercises demonstrating their usage in robotics.



Contact Details

Any query regarding the registration process please feel free to contact to :

Dr. Uday Patil, Assistant Professor
Dept. of Electrical Engineering
Email: cukccbtr2024@gmail.com
Mob. No. 72041 19811



Registration Details

Registration fees: INR 300/-

Participants can be academicians, students, teachers, research Scholars



Resource Persons



Praveenkumar Eklare

Lead Administrator
(Wipro Ltd -Hyderabad)

He has 10+ years IT industry experience, with 4 years as a Release Engineer and 6 years as a Cloud Engineer specializing in AWS. Extensive knowledge of EC2, S3, EBS, VPC, Route53 and other new technologies.



Dr. Shashidhar R.

Senior Chief Engineer
Samsung Research Institute,
(SRI-B) Bangalore

He has 12 years experience in teaching, research, and industry. He has made significant and multifaceted contributions to the fields of cybersecurity and blockchain technology. He is a dedicated educator and mentor, having organized more than 25 workshops and training programs on cybersecurity and blockchain.



Sheik Mohammed Maaz

Founder & CEO

2023 - PRESENT
DYNAVATION ELECTRONICS PVT. LTD.

He has Led successful execution of government projects, including farmland automation system; secured funding and selected for IoT-based automation, got project at IISC. Vice Chair of Robotic IEEE Community for 2 years.