Faculty Development Program on
“Hands-on training on Blockchain Technology and its applications”

10 to 14 February 2020

Gujarat Technological University
Graduate School of Engineering and Technology
& PG Research Centre for Cyber Security

Under Information Security Education and Awareness (ISEA) Project Phase II

at
GUJARAT TECHNOLOGICAL UNIVERSITY
Chandkheda Campus, Nr. Vishwakarma Government Engineering College,
Visat - Gandhinagar Highway, Chandkheda,
Ahmedabad – 382424 – Gujarat.

About the GTU

Gujarat Technological University (GTU) is the largest government university in Gujarat, catering to the fields of Engineering, Business Management, Computer Science, Pharmacy and Architecture. GTU is having a pool of more than 5,00,000 students and 18,000 professors teaching in more than 500 affiliated colleges/institutes across the state of Gujarat.

GTU has initiated number of innovative policies and it has put in place systems to develop GTU into a great university. Today GTU is considered as the benchmark among the technological universities of India. Its industry-oriented academic programs and its efforts for establishing and maintaining an active relationship with industries and businesses through GTU Innovation Council has been recognized as the most successful effort in the country.

GTU has established fourteen Post-graduate Research Centres, including the Centre for Infrastructure, Transport and Water Management, Centre for Environmental and Green Technologies and Centre for Environment and Energy Efficiency. The Innovation Council of GTU is well known in the country for its initiatives in grass root innovation work by the engineering students for solving problems of SME industrial units located throughout Gujarat. Intensive innovation efforts resulted in many patentable outcomes. GTU’s Policy Documents for Student Start-up Development and for Skill Development Mission are being used by universities all over India.

About the FDP

Blockchain is an emerging technology platform for developing decentralized applications and data storage, over and beyond its role as the technology underlying the cryptocurrencies. The basic tenet of this platform is that it allows one to create a distributed and replicated ledger of events, transactions, and data generated through various IT processes with strong cryptographic guarantees of tamper resistance, immutability, and verifiability. The widespread popularity of digital cryptocurrencies has led the foundation of Blockchain, which is fundamentally a public digital ledger to share information in a trustworthy and secure way. The concept of Blockchain have now spread from cryptocurrencies to various other domains, including business process management, smart contracts, IoT and other various applications.

This FDP is the joint venture between academia and industry. It is going to be organized in association with Blocklogy Edutech Private Limited, Navi Mumbai where the target is to cover both the conceptual as well as application aspects of Blockchain. This includes the fundamental design and architectural primitives of Blockchain, the system and the security aspects, along with various use cases from different application domains.

About the GTU– Graduate School of Engineering and Technology

In the year of 2017, GTU has started AICTE approved PG course, ME in Computer discipline (specialization in Cyber Security) and in the year of 2018, another PG course, Master of Engineering in Electronics and Communication discipline (specialization in Mobile Communication and Network Technology) has been started. Both these courses run under GTU-Graduate School of Engineering and Technology (GTU-GSET) with the vision of providing excellent technical knowledge and preparing competent man-power in the respective specialization.

Following are salient features of the courses run under GTU-GSET:

• Courses run by state government university (GTU).
• Admission through ACPC.
• Courses run in academic campus of GTU located in Gandhinagar.
• Courses guided and acknowledged by senior academicians and industry experts in capacity of advisors.
• Chance for students to showcase their talent by arranging student leaded programs.
• Easy access to conferences and workshops organized by GTU in campus itself, elsewhere in India and abroad.
• Live research projects proposed by regulatory bodies and industries.
• 100% Placement possibilities.
• Guest lectures by various industry experts and academicians.
• Excellent digital and physical library facility.
• Hostel facility is available for boys and girls.
Important Dates:

- Event On: 10th to 14th February 2020
- Last Date of Registration: 1st February 2020
- Notification of Acceptance: 3rd February 2020

Registration and Guidelines

Registration Fee
- Faculty Members/Academician: Rs. 500/-
- Industry Delegate: Rs. 1,000/-

Registration fee will include registration kit, breakfast, lunch and study material.

FEES SHALL NOT BE REFUNDED or TRANSFERRED IN ANY CASE.

Online Payment Process:

All payment must be made online using the given link:
https://www.onlinesbi.com/prelogin/institutiontypedisplay.htm

Step 1: State of Corporate/Institution: Gujarat
Step 2: Type of Corporate/Institution: Educational Institutions
Step 3: Educational Institutions Name: GUJARAT TECHNOLOGICAL UNIVERSITY
Step 4: Select Payment Category: Registration Fees for Conference
Step 5: FDP Name: GTU-FDP 2019
Step 6: Fill in your personal details and select the mode of payment
Step 7: At the end, collect the Payment Ref. No. starting with DU^.
Step 8: Using Payment Ref. No. fill in the online Delegate Registration Form.
Step 9: Save your payment receipt and mail it to ap1_mcwt@gtu.edu.in

For instructions and query related to online payment, kindly refer:
http://www.gtu.ac.in/ImpCircular/SBIPayment%20Instructions.pdf

Registration Guideline:

Kindly make sure to keep Payment Ref. No. with you while registering.

Kindly visit following link to register yourself for the FDP:
https://forms.gle/amCEqv8hVAfGrFB29

- Limited Seats available and confirmation will be done on first-cum-first serve basis
- Participants have to carry their ID card.

Topics

- Multiple Use-Case of Blockchain as per different industries and government
- Digital Signatures and Demo of Blockchain Tools
- Practical Hands-On with Smart Contracts
- Developing Smart Contracts
- Industry use cases of Smart Contracts
- Developing own Smart Contracts
- Programming basics of Solidity (Data Types) and Advanced Solidity
- EVM in relation with Smart Contracts and Gas Price
- Running and Debugging Smart Contracts in Remix (Detailed)
- Deploy and Debug Smart Contract with Truffle
- Smart Contracts in Ethereum Blockchain

Who can attend?

- Faculty members of Degree/Diploma level engineering colleges/universities recognized by AICTE/UGC and from following disciplines: Computer Engineering, Computer Science and Engineering, Computer Technology, Information Technology, Information & Communication Technology and Electronics & Communication.
- Faculty members of MCA/BCA colleges/university departments running MCA/BCA course recognized by AICTE/UGC.

Management Committee

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Prof.(Dr) Navin Sheth
Hon’ble Vice Chancellor
Gujarat Technological University

Patron
Dr. K. N. Kher
Registrar, Gujarat Technological University

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