

#### ABOUT GNITS

G. Narayanamma Institute of Technology & Science (GNITS) (For Women), sponsored by G.Pulla Reddy Charities Trust was started on 15<sup>th</sup> December, 1997. Sri G.Pulla Reddy was an eminent businessman of great integrity and impeccable reputation. GNITS is one of the top most colleges in Telangana and AP States. The objective of GNITS is to provide an excellent learning facility for women in order to pursue education in engineering. The institute aims to provide technical education among women to enhance and build-up a new generation of thinkers, innovators and planners in the technical realms of Science & Technology. GNITS received UGC autonomous status for a period of 10 years from 2018 and is affiliated to Jawaharal Nehru Technological University (JNTUH), Hyderabad. The institution has been accredited by NAAC for a period of six years from 2013. The institution is approved by AICTE, accredited by NBA, and is ISO 9001:2015 Certified. GNITS offers 5 B.Tech. Programmes in CSE, ECE, EEE, ETM and IT and 5 M.Tech programmes in CSE, DECS, PEED, WMC&CNIS in respective departments with 2640 students enrolled in B.Tech. stream and 180 in M.Tech stream. GNITS provides hostel facility with modern amenities catering the needs of 800 students in the campus itself. GNITS campus is enabled with Wi-Fi connectivity and has 150 Mbps leased line Internet. The college supports skill upgrading and overall development of students through Apple Lab, BTBP Lab, IOT Centre of Excellence, EDC Cell, I-Cell, Sports Club, etc. This is reflected in the placements offered to 80% of students in 2018. GNITS girls team won first prize (17 Lakhs) in Aegon international 24-hour Health and Wealth Hackathon.

#### ABOUT CSE DEPARTMENT

The Department of Computer Science and Engineering is one of the pioneer departments of GNITS with an intake of 180 in UG and 18 in PG. The department has 41 well qualified teaching and 10 non-teaching staff. Department has 6 Ph.D holders in which 3 are guiding 11 Ph.D. scholars and 13 were awarded from various Universities. Department of CSE established IoT Enabled Center of Excellence under AICTE MODROBS scheme. The Department has a credit of Career Award for Young Teachers from AICTE with a grant of 10.5 lakhs for a period of 3 years. The B.Tech program has been accredited by NBA in the year 2017. The students of the department are being selected through campus recruitment in reputed MNCs like Amazon, Bank of

America, JPMC, Deloitte, Accenture, Infosys, NCR, Service Now, State Street, UHG, CDK Global, Wells Fargo, VISA Inc, UX Reactor, L & T, ADP, GSK Tech, DMR Inc, DBS, BTBP etc. with 85% offers in the last academic year. Two students have been offered placement by Amazon(SDE) with highest package of 15 lakhs. Besides the teaching learning process, CSE department regularly conducts hackathons, innovation idea contests, coding challenges, workshops, guest lectures, group discussions, refresher courses, etc. to enhance the skills of students and teaching community.

#### IMPORTANT DATES

Last Date of submission : 05-12-2018  
Information of acceptance : 06-12-2018

#### ALL CORRESPONDENCE TO

The HOD, CSE Dept., GNITS, Shaikpet,  
Hyderabad-500104.  
E-mail: [cseworkshop@gnits.ac.in](mailto:cseworkshop@gnits.ac.in)

#### ORGANIZING COMMITTEE

##### PATRONS

Sri. P. Subba Reddy, Chairman, GNITS.  
Smt. G. Srividya Reddy, Joint Secretary, GNITS.

##### CHAIRMAN

Dr. K. Ramesh Reddy, Principal, GNITS.

##### CONVENER

Dr. M. Seetha,  
Professor & Head, Dept. of CSE, GNITS.

##### COORDINATORS

Mrs. J. Padmavathi,  
Asst. Professor, CSE.  
Ph: 9550363605

Mrs. S. Sandhya  
Asst. Professor, CSE.  
Ph: 9985232503

##### MEMBERS

All faculty of CSE

##### LOCATION & TRANSPORT

The college is located 5kms from Mehdiptnam (on the way to HCU) near Darga bus stop. BUS RouteNos(from Mehdiptnam) : 116,118G, 216, 217, 6C, 126.

One-Week  
National Level  
Faculty Development Program

on

## Security applications using Blockchain Technology

10<sup>th</sup> - 15<sup>th</sup> December, 2018



Organized by  
Department of CSE



## G. Narayanamma Institute of Technology & Science

Autonomous (For Women)  
Accredited by NAAC of UGC&NBA  
An ISO 9001:2015 Certified Institute  
Shaikpet, Hyderabad - 500 104,  
Telangana State, India.  
Phone: +91-(0)-40- 23565648/549  
Fax: +91-(0)-4023564187  
Website: [www.gnits.ac.in](http://www.gnits.ac.in)

*Handwritten signature in blue ink.*  
G. Narayanamma Institute of Technology & Science  
(Autonomous For Women)  
Shaikpet, Hyderabad - 500 104

## ABOUT THE WORKSHOP

Blockchain is an emerging technology suitable for decentralized and transactional sharing of data across a large network of untrusted participants. By using this technology one can maintain continuously-growing list of records called blocks and link them in a distributed manner (blockchain), potentially in such a way that they are secure against tampering. Blockchain is maintained as distributed database of records of transactions that are shared among participants. This technology uses cryptographic algorithms to validate the logged transactions and ensure that no record is duplicated and also permanent records are updated on each node of the network. This technology is used in cryptocurrencies like Bitcoin and Ethereum. Few other real-time applications include health care, digital identity, smart contracts, digital voting, and IoT applications. This workshop is aimed at enhancing the knowledge of students, motivate research among academicians and professionals in the area of blockchain technology by focusing on various real world applications.

## COURSE CONTENTS

- ❖ Introduction to Blockchain Technology
- ❖ Usecases (Applications)
- ❖ Delving into Blockchain
- ❖ Cryptocurrency and Blockchain: Bitcoin, Ethereum
- ❖ Cryptography in Blockchain
- ❖ Setting up private Blockchain environment using Ethereum platform
- ❖ Create & deploy private Blockchain on multichain
- ❖ Security Issues
- ❖ Blockchain challenges and opportunities

## RESOURCE PERSONS

Experts from academia and industry

## ELIGIBILITY

Faculty and PG students from various Engineering and MCA colleges can attend the programme. Industry persons working in the concerned discipline can also attend.

## DEPARTMENT VISION

To provide engineering education in the field of Computer Science with evolving technologies and to produce self motivated, employable individuals to society.

## DEPARTMENT MISSION

1. To pioneer education in Computer Science and Engineering, Mathematics and Sciences, to mould the overall personality of students.
2. To nurture the students to be dynamic, industry ready and to have multidisciplinary skills and leadership qualities.
3. To inculcate work ethics and commitment in students for their future endeavors to serve the society.

## REGISTRATION FEE

- Faculty & PG students registering for the workshop are required to pay Rs.1500/- by DD in favor of the Principal, GNITS, payable at Hyderabad.
- The registration fee includes workshop material, lunch, snacks, etc.

## APPLICATION FORM

- Registration form can be downloaded from the website [www.gnits.ac.in](http://www.gnits.ac.in)
- Limited hostel accommodation is available for outstation lady faculty only.
- You may confirm your participation by mailing the scanned copy of registration form and DD to the following mail id [cseworkshop@gnits.ac.in](mailto:cseworkshop@gnits.ac.in)

## KEYCONTACTS

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**Mrs. S.Sandhya**  
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**WEBSITE:** [www.gnits.ac.in](http://www.gnits.ac.in)

One-Week  
National Level  
Faculty Development Program

## on Security applications using Blockchain Technology

10<sup>th</sup> - 15<sup>th</sup> December, 2018

Application Form

1. Name: .....

2. Designation: .....

3. Institution: .....

4. E-mail: .....

5. Contact No.....

6. D.D No: ..... Bank: .....Date: .....

7. Address for Correspondence: .....

8. Educational Qualifications with specialization: .....


Signature of the Applicant

Forwarded by

Signature & Seal of Sponsoring Authority

Place:

Date:


  
PRINCIPAL  
G. Narayana (Institute of  
Technology & Engineering for women)  
(AUTONOMOUS)  
Shaikpct, Hyderabad-503 104

**G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE**  
Autonomous (for Women)  
Department of CSE

**Schedule for FDP on "Security Applications using Blockchain Technology" (10th to 15th December, 2018)**

Day	Session 1 9:00 AM- 10:45 AM	10:45AM - 11:00AM	Session 2 11:00 AM - 12:45 PM	12:45 PM - 1:30 PM	Session 3 1:30 PM- 3:00 PM	3:00 PM - 3:10 PM	Session 4 3:10 PM- 4:30 PM
10 <sup>th</sup> Dec	Inaugural function and address by Chief Guest	Tea Break	Introduction to Blockchain & Evolution of Blockchain Technology <b>GRK</b>	Lunch Break	Advantages and Challenges in Blockchain <b>VM</b>	Tea Break	Cryptographic Algorithms in Blockchain <b>PRLE</b>
11 <sup>th</sup> Dec	Blockchain Concepts, Architecture and Mining <b>DSN,BS</b>	Tea Break	Solidity Basics <b>DSN,BS</b>	Lunch Break	Creating a sample contract and deploying (Hands-on session) <b>DSN,BS</b>	Tea Break	Creating a sample contract and deploying (Hands-on session) <b>DSN,BS</b>
12 <sup>th</sup> Dec	Ethereum & Blockchain <b>DSN,BS</b>	Tea Break	Ethereum & Mining <b>DSN,BS</b>	Lunch Break	Ethereum Use case (Hands-on session) <b>DSN,BS</b>	Tea Break	Ethereum Usecase (Hands-on session) <b>DSN,BS</b>
13 <sup>th</sup> Dec	Bitcoin & Blockchain <b>IM</b>	Tea Break	Bitcoin Mining <b>IM</b>	Lunch Break	Private Blockchain Environment setting using Ethereum Platform (Hands-on session) <b>IM</b>	Tea Break	Private Blockchain Environment setting using Ethereum Platform (Hands-on session) <b>IM</b>
14 <sup>th</sup> Dec	Truffle Framework <b>IM</b>	Tea Break	Concept of Hyper ledges <b>IM</b>	Lunch Break	Environment setting using hyper ledger composer (Hands-on session) <b>IM</b>	Tea Break	Environment setting using hyper ledger composer (Hands-on session) <b>IM</b>
15 <sup>th</sup> Dec	Future and security of Blockchain <b>MSK</b>	Tea Break	Creation & deployment of private Blockchain on multichain <b>MSK</b>	Lunch Break	Valedictory		

**GRK** - Mr. G. Rohith Kumar Reddy, CEO, MTW Labs Innovations India Pvt. Ltd.  
**VM** - Mr. V. Madhu, Senior Analyst, Kony labs  
**PRLE** - Mrs. P. R. Lakshmi Eswari, Associate Director, C-DAC, Hyderabad  
**DSN** - Mr. D. Satyanarayana, Technical lead, Cluster IT Solutions  
**BS** - Mr. B. Shiva, Director, Cluster IT Solutions  
**IM** - Mr. Intisar Menhdi, Technical Director, Brain O Vision solutions India Pvt. Ltd.  
**MSK** - Mr. M. Sampath Kumar, D. E. Shaw India Pvt. Ltd.

  
G. Narayanna  
Institute of  
Technology (for women)  
Shaikrath (1003-104)

**One week National Level Faculty Development Program Report on "Security Applications using Blockchain Technology" (10th to 15th December, 2018)**

Brief report on the workshop "Security Application using Blockchain Technology" conducted from 10<sup>th</sup> to 15<sup>th</sup> December, 2018 organized by Department of CSE, GNITS. During the one week workshop various resource persons from academia and industry shared their knowledge and hands-on expertise on Security Application using Blockchain Technology.

**Day-1: (10-12-18)**

The session was taken by **Mr. G. Rohith Kumar Reddy**, CEO, MTW Labs Innovations India Pvt. Ltd., on Introduction to Blockchain & Evolution of Blockchain Technology.

**Day-2: (11-12-18)**

The session was taken by **Mr. D. Satyanarayana**, Technical lead, Cluster IT Solutions, **Mr. B. Shiva**, Director, Cluster IT Solutions on Blockchain Concepts, Architecture and Mining and Solidity Basics. Afternoon session has given Hands on for Creating a sample contract and deploying.

**Day-3: (12-12-18)**

The session was taken by **Mr. D. Satyanarayana**, Technical lead, Cluster IT Solutions, **Mr. B. Shiva**, Director, Cluster IT Solutions, discussed Ethereum, Blockchain & Mining with hands on practices for Ethereum Use case.

**Day-4: (13-12-18)**

The session was taken by **Mr. Intisar Menhdi**, Technical Director, Brain O Vision solutions India Pvt. Ltd., discussed Bitcoin, Blockchain & Bitcoin Mining with hands on practices for Private Blockchain Environment setting using Ethereum Platform.

**Day-5: (14-12-18)**


The session was taken by **Mr. Intisar Menhdi**, Technical Director, Brain O Vision solutions India Pvt. Ltd. introduced Truffle Framework and the concepts of Hyper ledges with hands on practices for Environment setting using hyper ledger composer


**Day-6: (15-12-18)**

Forenoon session was taken by **Mr. M. Sampath Kumar**, D. E. Shaw India Pvt. Ltd., on Future and security of Blockchain and Creation & deployment of private Blockchain on multichain.

**Submitted by**

1. Mrs. Bhageswari Ratkal
2. Mrs. B. Geetha Kumari
3. Mr. B. Vamshi
4. Ms. K. Sneha Reddy

  
G. Narayanam, Director of  
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Shankar Institute of Technology & Sciences, 600 094

  
**HOD CSE**