SIES Graduate School of Technology Department of Computer Engineering Organizing Student Development Program and Internship Blockchain Technologies and Applications Dec 2-7, 2019, 10.00 AM to 5.00 PM

The widespread popularity of digital crypt-currencies has led the foundation of Blockchain, which is fundamentally a public digital ledger to share information in a trustworthy and secure way. The concept and applications of Blockchain have now spread from crypto-currencies to various other domains, including business process management, smart contracts, IoT and so on. This course is a covers 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 tools to implement the Blockchain for various application domains.

Objectives:

- Learn about Blockchain concept and crypto-currencies.
- Understand the concept and importance of Blockchain technology in Business
- Use of various tools to implement the Blockchain.

Course Contents:

- Basics of Blockchain Technology and Crypto-currency
- Permissioned and Permission-less Blockcahin
- Consensus protocols and Algorithms.
- Implementation of Blockchain using JAVA
- Creating of SMART contract using solidity
- Design, Test and Deploy Secure Smart Contracts
- Creating of Block Chain Network using Hyperledger fabric
- Creating Blockchain applications using Hyperledger Composer plate form

Who Should Attend: Any student from SE and TE (all branches)

Course Fees: Course is free of cost(only for SIES GST students)

Certification: Course completion and internship certificate is provided.

Internship: At the end of 5 days program participants will undergo 15 days internship covering developing secure web applications, identification of security threats and developing the security solution for various organizations (For ex: Bank Sector/Medical Sector/Insurance/IT Sector).

Outcome:

- This SDP is designed to provide solution of problem associated with the third party inclusion in transaction.
- This SDP will give insight on various tools used for Blockchain technology.
- This SDP will provide base for certification in the professional in the Blockchain technology.

Contact for Registration:

Prof. Rizwana Shaikh: rizwana.shaikh@siesgst.ac.in, 9619197014 Prof. Masooda Modak: masooda.modak@siesgst.ac.in 9833161007 Prof Kalyani P: kalyani.pampattiwar@siesgst.ac.in, 9819370257

Day wise schedule

Day	Session1	Session2	Session3	Session 4	
	9:30-10:30 10:30-1		2:00-3:30	3:30-5:00	
02/12/2019	Introduction to Blockchain	Bitcoin and Blockchain	Hyperledger fabric Composer	Quiz	
03/12/2019	Cryptography required for Blockchain	Public key cryptography	Markeley tree and Hash function	h	
04/12/2019	Introduction to solidity	Remix IDE framework	Sample contract	Quiz	
05/12/2019	More examples in solidity	Banking Example	Currency exchange contract	Quiz	
06/12/2019	Building a Blockchain using javascript	Accessing Blockchain using API	Consensus algorithms	Quiz	
07/12/2019		Case study on Blockchain Identifying entities and other constructs		title for internship	



SIES Graduate School of Technology Sri Chandrasekarendra Saraswati Vidyapuram Sector 5, Nerul, Navimumbai-400706

Event Report

Student Development Program on Blockchain Technologies and Applications

Event Information

Event Type:Student Development Program

Event Title:Blockchain Technologies and Applications

Resource Persons: Dr. Rizwanashaikh, Prof. Masooda Modak, Prof. Kalyani Pampattiwar, Prof. Namrata Patel

Event Date:02/12/2019 to 07/12/2019

Organized for: SE, TE Students

Organized by:Computer Engineering, SIES GST

Target Audience (Branch & Nos.): Undergraduate Students (CE : 25 students)

Attachments: 1. Photographs (JPEG/PNG) 2. Attendance Report

3. Feedback Report

Event Description

Department of Computer Engineering of SIES GST organized an SDP from 02/12/2019 to 07/12/2019 for SE/TE students.

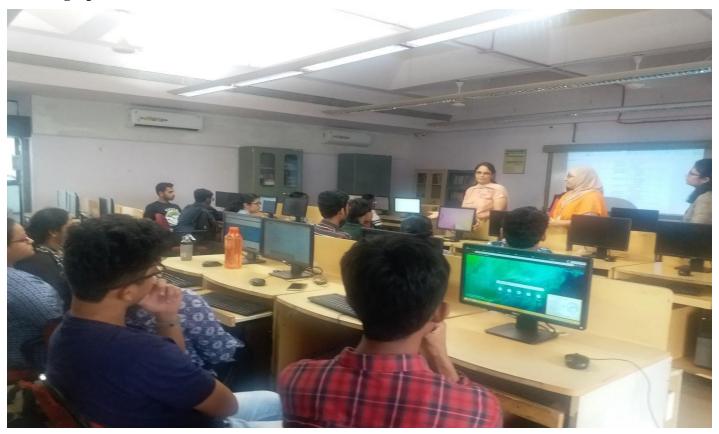
Dr. Aparna Bannore, HOD CE has addressed the students about the overview of program and internship to be conducted. She explained the benefits of learning security and blockchain. Also various career opportunities available in the field of security.

Around 25 participants from SE and TE attended the SDP. Entire program was carried out in six days span. Everyday's session is divided into two halves morning and afternoon.

The Sessions started with covering basics of Security and need of Blockchain. Various tools were identified and studied along with the demonstration. A sample project in the form of mini project is the expected outcome of the course.

The first day morning session conducted by Dr.Rizwanashaikh. She has covered Introduction to blockchain, followed by afternoon session by Prof.Kalyani P on Cryptography required for Blockchain. She continued the session on second day based on Public key cryptography and Markeley tree and Hash function. Day 2 afternoon session conducted by Dr. Rizwana on Hyperledger fabric Composer. Day 3 session was conducted by prof. MasoodaModak on Introduction to solidity, Remix IDE framework and Sample contract. Day 4 session was continued by her on More examples in solidity, banking example and Currency exchange contract.Day 5 session was delivered by Prof. Namrata Patel on Building a Blockchain using javascript, Accessing Blockchain using API and Consensus algorithms. Day 6 was conducted by Dr. Rizwana Shaikh on Case study on Blockchain and at the end intership project topics were discussed with students. Students have been given 15 days time to complete their project. Vote of thanks was presented by HOD CE, Dr. Aparna Bannore.

1. Photographs (in JPEG/PNG):





2. Attendance and Feedback Report (Scanned copy):

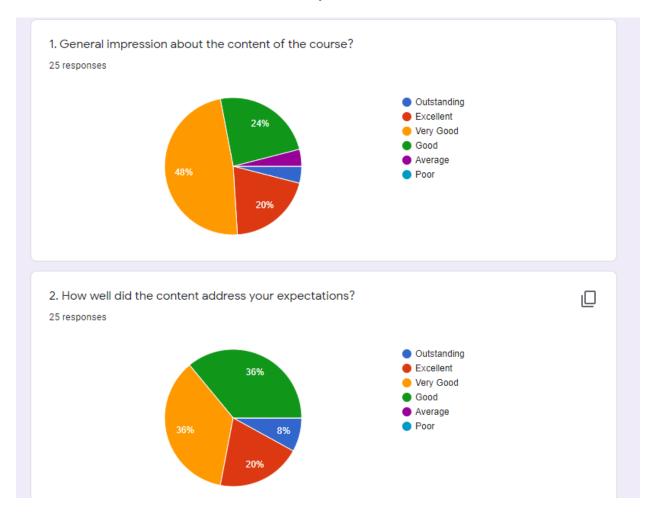
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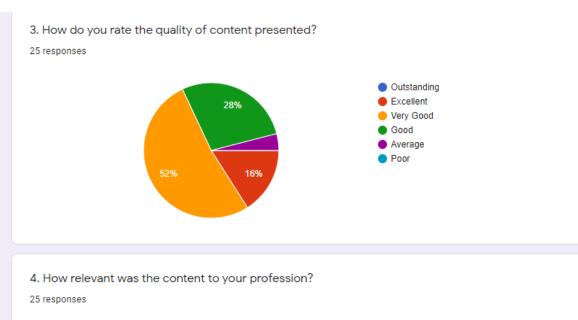
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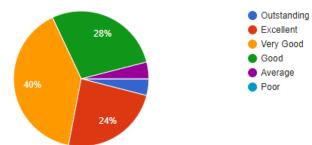


Feedback Analysis

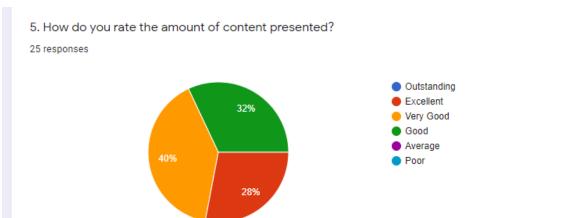






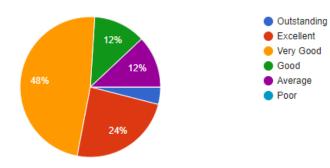




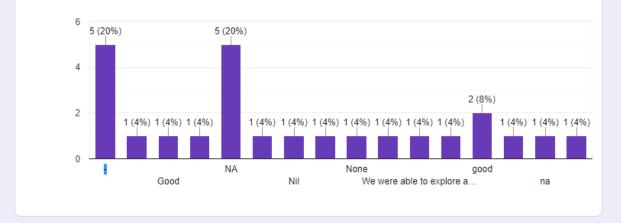


6. How do you rate hands on experience of this lab session?

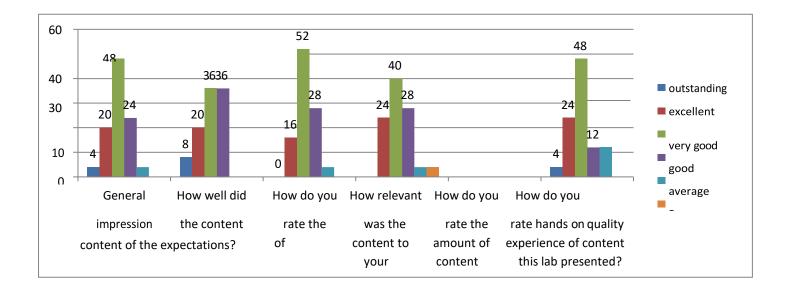
25 responses



7. Other comments about the event's content 25 responses







Impact Analysis:

- 1. Students got exposure to upcoming applications of Blockchain technology.
- 2. They have learnt the concepts which are beyond their curriculum.
- 3. As a outcome of it in their internship students have developed a mini project based on concepts they have learnt during these six days.



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	This is to certify that	
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has	successfully completed the course	on
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