



Department of Artificial Intelligence & Data Science

Student Development Program on Blockchain Technology July to September 2025

Event Report

Event Information
Event Type: Value added Program
Event Topic: Blockchain Technology
Name of the Resource Person: Dr. Rizwana Shaikh, Prof. Deepali Jagtap, Dr. Neethu Sabu, Mr. Chinmay Chandak
Event date: SH2025 (July – September 2025)
Organized for: SE, TE and BE students of all branches
Organized by: Artificial Intelligence and Data Science Department
No of Students attended: 25
Attachments: 1. Event Description 2. Photographs 3. Attendance 4. Impact Analysis

Event Description

Department of Artificial Intelligence and Data Science of SIES Graduate School of Technology, Nerul, Navi Mumbai has successfully organized and conducted one week student development program on **"Blockchain Technology"** for SE, TE and BE students of AIML/IOT/AIDS/CE/ECS//IT/EXTC/Mechanical branch from July 2025 to August 2025.

Dr. Rizwana Siddiqui, Head of Department AIDS, 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 FE, SE and TE attended and successfully completed the SDP. Entire program was carried out in two months span. Sessions were scheduled on Monday's, Friday's and Saturday's. 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.

Sessions were conducted by Dr. Rizwana Siddiqui, Dr. Neethu Anna Sabu and Prof. Deepali Jagtap. First day Dr. Neethu covered Introduction to blockchain, Bitcoin: Introduction Cryptocurrency and applications followed by afternoon session on Smart Contracts, Various implementation tools. Sessions on Cryptography required for Blockchain, Public key cryptography and Markeley tree and Hash function was conducted by Prof. Deepali Jagtap.

All other sessions were conducted by Dr. Rizwana Siddiqui. Contents of these sessions were included Introduction to solidity, Remix IDE framework and Sample contract., Deploying Smart Contracts, using Metamask for transfer of ethers, Building a Blockchain using javascript, Accessing Blockchain using API and Consensus algorithms. She has also conducted one session covering Case study on Blockchain and at the end internship project topics were discussed with students. Students have been given 15 days of time to complete their project. Vote of thanks was presented by Head of Department AIDS, Dr. Rizwana Siddiqui. She has congratulated all the students for attending the SDP with full enthusiasm.

Expert Session was conducted by Mr. Chinmay Chandak from Founding Engineering, Backend and Web3 from Blockend Labs on **" Blockchain Technology "** He familiarize students with the working of blockchain, its role in decentralization, and its potential to transform industries such as finance, supply chain, healthcare, and governance.

Course Content:

Prerequisite: Basics of security.

Module	Contents
1.	Chapter 1: Introduction to Blockchain Technology Introduction to Blockchain, Applications and advantages Bitcoin: Introduction, Cryptocurrency and applications Lab: Case Study of Bitcoin and Blockchain, Demonstration of etherscan transaction
2.	Chapter 2: Prerequisite for Blockchain Cryptography and Cryptanalysis, Use of cryptography in Blockchain, Symmetric key cryptography, Asymmetric key cryptography, RSA cryptosystem with example, Cryptographic Hash function, Hash Chain, Merkle Tree, Digital signature, Cryptocurrency using hash chain and digital signature Lab: Demo of SHA256 and other cryptographic tools
3.	Chapter 3: Smart contract and solidity, Introduction to Smart Contract, Key Properties of smart Contracts, Language for Smart Contracts, Deploying Smart Contracts, Using MetaMask for transfer of ethers. Lab: Design, test, and deploy secure Smart Contracts
4.	Chapter 4: Blockchain using Hyperledger Hyperledger Components, MSP, Chain code, Various applications, Lab: Creating Blockchain Using NodeJS, Creating Blockchain application using Hyperledger
5	Chapter 5: Blockchain using Ethereum. Ethereum components, features, Wallets, Transactions, Public & Private keys, Lab: Implementation of Blockchain using Ethereum, creating wallet, writing transaction, mining and generating crypto currency
6	Chapter 6: Creating Blockchain Applications Creating an application of blockchain using truffle suit and Ganache framework, combining with solidity smart contract and executing the transactions. Lab: Application executed using smart contract and embedding with Ganache

Assessment:

1. The course includes mini project and quiz.
2. The students should form a group of three to four members and implement mini-project as a part of the course.

Course Coordinator:

Dr. Rizwana Shaikh: rizwanas@sies.edu.in, 9619197014

Prof. Deepali Jagtap: deepaligj@sies.edu.in, 9890670616

Registration link <https://forms.office.com/r/u0Wh33fBa9>

Course 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 Outcomes:

After This Course the students should be able to:

- Identify the problem of security associated with the third party inclusion in transaction.
- Identifying the need for Blockchain Technology in various Applications.
- Demonstrate the various tools used for Blockchain technology.
- Implementing Blockchain in any security application.

Photograph:



Attendance:

SIES GRADUATE SCHOOL OF TECHNOLOGY			
DEPARTMENT OF AIDS			
ATTENDANCE SHEET			
DATE 04/08/25			
Subject : Blockchain Technology			
SR NO	NAME OF STUDENT	ROLL NO	SIGN
1.	Rachna Muthukumar	124A8089	Rachna
2.	Krishna Poojari	124A8086	Krishna P.
3.	Bhoomi Sharma	124A8101	Bhoomi
4.	Shravani Talekar	124A8114	Shravani
5.	Sri Muthu	124A8111	S.R.L
6.	Akash Kishore Wadde	124A8120	Akash
7.	Tushar Singh	124A8110	Tushar
8.	Parth Tiwari	124A8116	Parth
9.	Yaseen Ahmed	124A8126	Yaseen
10.	Parom Patil	124A8077	Parom
11.	Parth Patil	124A8078	Parth
12.	Vadnika Patil	124A8083	Vadnika
13.	Vaidehi Patil	124A8082	V.R.Patil
14.	Prasad Ambekar	124A8004	Prasad
15.	Aashin Kondhalkar	124A8001	Aashin
16.	Samaksh Acharya	124A8003	Samaksh
17.	Sihan S. Prabhu	124A8088	Sihan
18.	Krushna Ramesh	124A8075	Krushna
19.	Kashan Patil	124A8080	Kashan
20.	Joshua Perez	124A8084	Joshua
21.	Pranav Thang Tawie	124A8127	Pranav
22.	Shravya Ranjane	124A8092	Shravya
23.	Nikhil Singh	124A8108	Nikhil
24.	Shubham Singh	124A8107	Shubham

SIES GRADUATE SCHOOL OF TECHNOLOGY			
DEPARTMENT OF AIDS			
ATTENDANCE SHEET			
DATE 01/08/25			
Subject : Blockchain Technology			
SR NO	NAME OF STUDENT	ROLL NO	SIGN
1	Bhoomi Sharma	124A8101	Bhoomi
2	Rashmi Gaware	124A8122	Rashmi
3	Adnan Shaikh	124A8098	Adnan
4	Shravani Talekar	124A8114	Shravani
5	Nikhil Singh	124A8108	Nikhil
6	Shubham Singh	124A8109	Shubham
7	Shravya Ranjane	124A8092	Shravya
8	Yaseen Ahmed	124A8126	Yaseen
9	Tushar Singh	124A8110	Tushar
10	Parth Tiwari	124A8116	Parth
11	Prasad Ambekar	124A8004	Prasad
12	Parom Patil	124A8077	Parom
13	Parth Patil	124A8078	Parth
14	Kashan Patil	124A8080	Kashan
15	Rachana Muthukumar	124A8089	Rachana
16	Vadnika Patil	124A8083	Vadnika
17	Vaidehi Patil	124A8082	Vaidehi

32
Responses

Latest Responses
"123A8012"
"224A8065"
"124A8098"
...

1 respondents (3%) answered 24 for this question.

124A8086 124A8111 124A8126 124A8078 124A8108
124A8120 124A8082 124A8114 24 124A8096 124A8101 124A8077
123A8009 124A8122 124A8116 04 123A8011 123A8001
123A8013 124A8075

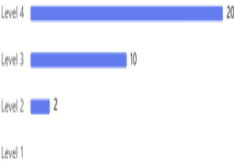
3. Email_id (0 point)

32
Responses

Latest Responses
"bharathraids123@gst.sies.edu.in"
"vipuvkaids224@gst.sies.edu.in"
"mohammadnraids124@gst.sies.edu.in"
...

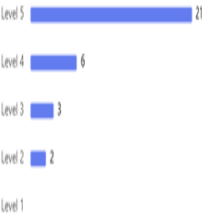
4. Relevance of the session (0 point)

3.56
Average Rating
★★★★☆

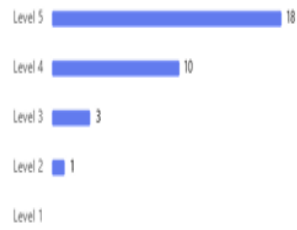


5. Content Delivery (0 point)

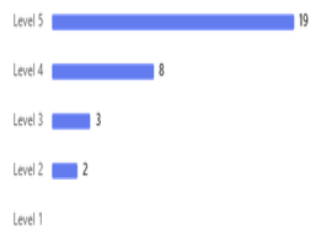
4.44
Average Rating
★★★★☆



6. Effectiveness of the session (0 point)



7. Satisfaction in general (0 point)



Social Media Link : <https://www.facebook.com/share/p/1DPjrgBmZp/>

**Student Development Program on Blockchain Technology
July to September 2025**

Projects

Group No	Roll No	Name of the Student	Finalize Topic
1	124A8092	SHREYA RANJANE	Chameleon Cybersecurity System: Blockchain-Based Tamper-Proof Logging Module
	124A8108	NIHARIKA SINGH	
	124A8109	SHUBHAM SINGH	
	124A8098	ADNAN SHAIKH	
2	124A8101	BHOOMI SHARMA	Scholarship Management DApp
	124A8122	RASHI WAWALE	
	124A8116	PARTH TIWARI	
	124A8075	KRISHNA PANDEY	
3	124A8110	TUSHAR SINGH	StoryChain
	124A8111	YASEER AHMED	
	124A8112	AKASH WARD	
4	124A8100	Tabsir Shaikh	Academic and professional certificate issuance and verification DApp
	124A8096	Afraaz Shaikh	
	123A8058	Prarthana Tank	
	124A8091	Sidhi Rane	
5	124A8111	Sri Muthu Lakshmanan RK	BlockBazaar Lite
	124A8114	Shravani Nitin Talekar	
	124A8086	Krishna Poojari	
	124A8089	Rachna MuthuKumar	
6	124A8083	Yadnika Patil	Etherball : Lottery DApp
	124A8078	Parth Patil	
	124A8082	Vaidehi Patil	
7	124A8077	Param Patil	Voting System

Impact Analysis :

The Workshop on “Blockchain Technology” successfully enhanced the participants’ understanding and skills in decentralized systems and smart contract development. It strengthened employability, promoted innovation, and broadened exposure to emerging Web3 technologies.