TAGORE ENGINEERING COLLEGE
(A Member of Tagore Group of Institutions Chennai)
Approved by AICTE, New Delhi I Affiliated to Anna University, Chennai
ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LIST OF FDP ORGANISED

S.NO.	ACADEMIC YEAR	TOPIC	DATE	Coordinator
1	2022-2023	Five Days Faculty Development program on Cryptography and Cyber Security	12.06.2023 to 16.06.2023	Dr. B.Selvalakshmi
2	2021-2022	Online - Six Day FDTP - Summer on Cryptography and Network Security	11.07.2022 to 16.07.2022	Dr. B.Jaishanthi
3	2020-2021	Five Day Online Faculty Development Program Cloud Computing.	24.05.2021 to 28-05-2021	Mr.Sudheer Redddy

Faculty Development Program

On

"Cryptography and Cyber Security"

June 12th to 16th 2023

REGISTRATION FORM

Name   : --------------------------------

Designation : --------------------------------

Gender   : --------------------------------

Organization : --------------------------------

Address   : --------------------------------

Mobile   :

E-mail   :

Academic staff/ Research Scholar/Student

Signature

The registration details should be sent to the below mentioned Email Id

nsbc19@gmail.com

CHIEF PATRON

Prof. M. Mala M.A., M.Phil.

Chairperson

PATRONS

Dr. R.Ramesh, Principal

Dr. Srinivasan (Prof. & Dean)

Dr. S. Surendran (HOD/CSE)

Coordinator

Dr.B.Selvalakshmi

Contact info: bselvalakshmi@tagore-engg.ac.in

Organizing Committee

Ms. B. Jaishanthi (Asso. Prof / CSE)

Ms.F.L.Dixy Ginu (AP/CSE)

Ms.D.Meenakshi(Assitant Professor)

Fdp Date   : 12th to 16th June 2023

Faculty Development Program

On

"Cryptography and Cyber Security"

June 12th to 16th 2023

Organized by

Department

Of

Computer Science and Engineering

TAGORE ENGINEERING COLLEGE
RATHINAMANGALAM,
CHENNAI-127

Website: www.tagore-engg.ac.in/nsbc

E-mail : nsbc19@gmail.com

ABOUT THE COLLEGE

Tagore Engineering College is a reputed institution that is affiliated to Anna University. Located 6 kms from Vandalur. The college is a heaven for academic activities. There are 7 streams of Engineering offered here viz, CSE, ECE, IT, Aero, Mechanical, Civil and EEE. The college also provides four Master's Degree programmes. The ME (CSE) in this institution ranks high among the private Engineering College that offers this course in Chennai. The College maintains an excellent academic record and is rerouted for its discipline and decorum.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering is one among the oldest disciplines of engineering in our college with an excellent infra structure facility. Our department believes in a single thought which exemplifies the motto of our college "Labor to Glory". Our department boosts of highly qualified and well experienced faculty. The department of CSE has invited over about 60 colleges from Chennai city alone and has sent

invites to numerous colleges all over India to take part in this Faculty development program.

The department takes immense pleasure in inviting the faculty from all engineering colleges to make this event a grand success. It is a five days FDP organized by the department of CSE. This event will be a platform for the faculty to share their technical and soft skills talents.

ABOUT THE FDP

Cryptography, the art and science of secure communication, is fundamental to modern digital security. It involves the encryption and decryption of data to ensure its confidentiality, integrity, and authenticity. Through techniques like encryption algorithms and key management, cryptography enables secure communication channels, protects sensitive information, and verifies the identities of communicating parties. value. It facilitates smart contracts, engagement, and agreements with inherent, robust cyber security features.

Cryptography finds widespread applications in various domains, including secure online transactions, data protection, digital signatures, and authentication protocols like SSL/TLS.

Topics to be covered

- Foundations of Cryptography
- Cryptographic Protocols and Applications
- Cryptanalysis and Attacks
- Applied Cryptography
- Network Security
- Cyber Security
- Endpoint Security
- Identity and Access Management (IAM)
- Cloud Security
- Secure Software Development

Day	Session 1 9.00 a.m. to 10.30 a.m.	Session 2 10.45 a.m. to 12.15 p.m		Session 3 1.30 p.m. to 3.00 p.m.	Session 4 3.15 p.m. to 4.45 p.m
12.06.2023	Computer Security Concepts – The OSI Security Architecture **Dr. Anusooya G** Assistant Professor, Department of Computer Science and Engineering VIT,Chennai	Security Attacks – Security Services and Mechanisms – A Model for Network Security **Dr. Anusooya G** Assistant Professor, Department of Computer Science and Engineering VIT, Chennai	**Lunch break**	Classical encryption techniques: Substitution techniques, Transposition techniques, Steganography **Dr. B.Swaminathan** Assistant Professor, Department of Computer Science and Engineering Saveetha University. Chennai	Foundations of modern cryptography: Perfect security – Information Theory – Product Cryptosystem – Cryptanalysis. **Dr. B.Swaminathan** Assistant Professor, Department of Computer Science and Engineering Saveetha University. Chennai.
13.06.2023	Number theory – Algebraic Structures - Modular Arithmetic - Euclid's algorithm- Congruence and matrices **Dr.S.SADAGOPAN** Assistant Professor Department of Computational Intelligence, SRM Institute of Science and Technology, Kattankalathur,chennai	SDES – Block Ciphers – DES, Strength of DES **Dr.S.SADAGOPAN** Assistant Professor Department of Computational Intelligence, SRM Institute of Science and Technology, Kattankalathur,Chennai		Differential and linear cryptanalysis – Block cipher design principles – Block cipher mode of operation **Dr. Anand M** Assistant Professor Department of Data Science and Business Systems, SRM Institute of Science and Technology, Kattankalathur,chennai	Evaluation criteria for AES – Pseudorandom Number Generators – RC4 – Key distribution **Dr. Anand M** Assistant Professor Department of Data Science and Business Systems, SRM Institute of Science and Technology, Kattankalathur,chennai
14.06.2023	Mathematics Of Asymmetric Key Cryptography **Dr. Rukmani P** Associate Professor Department of CSE, Vellore Institute of Technology, Chennai	RSA cryptosystem – Key distribution – Key management- **Dr. Rukmani P** Associate Professor Department of CSE, Vellore Institute of Technology, Chennai		Diffie Hellman key exchange –– Ms. D.Bhuvaneswari, Assistant professor, Department of IT, Tagore Engineering College, Chennai. **Dr. Jani Anbarasi L** Assistant Professor, Department of Computer Science and Engineering VIT, Chennai	Elliptic curve arithmetic – Elliptic curve cryptography **Dr. Jani Anbarasi L** Assistant Professor, Department of Computer Science and Engineering VIT, Chennai
15.06.2023	Authentication requirement – Authentication function – MAC Ms.Mercy.H Assistant Professor Department of CSE, Jerusalem College of Engineering, Chennai.	Hash function – Security of hash function: HMAC, CMAC – SHA – Digital signature and authentication protocols Ms.Mercy.H Assistant Professor Department of CSE, Jerusalem College of Engineering, Chennai	Lunch break	Entity Authentication: Biometrics, Passwords, Challenge Response protocols – Authentication applications – Kerberos Ms.Vanitha Sheeba Assistant Professor Department of CSE, Jerusalem College of	Key management and distribution – Symmetric key distribution using symmetric and asymmetric encryption – Distribution of public keys – X.509 Certificates. Ms.Vanitha Sheeba Assistant Professor Department of CSE, Jerusalem College of Engineering,

				Engineering, Chennai	Chennai
16.6.2023	Cyber Crime and Information Security – classifications of Cyber Crimes Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai	Tools and Methods – Password Cracking, Keyloggers, Spywares Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai		SQL Injection – Network Access Control- Cloud Security Mrs. S.Bharvathavarthini Assistant Professor Department of CSE Tagore Engineering College, Chennai	Web Security – Wireless Security Dr.B.Jaishanthi Mrs. S.Bharvathavarthini Assistant Professor Department of CSE Tagore Engineering College, Chennai
17.6.2023	Test for Participants Ms.S.S.Bhaviya Assistant Professor, Tagore Engineering College, Chennai-600127	Group Discussion B.Selvalakshmi, Assistant Professor, Tagore Engineering College, Chennai-600127		Presentation by Participants B.Selvalakshmi, Assistant Professor Tagore Engineering College, Chennai-600127	Test paper Discussion and Distribution & Valedictory function Ms.S.S.Bhaviya Assistant Professor, Tagore Engineering College, Chennai-600127 Dr.B.Jaishanthi Associate Professor&Head, Tagore Engineering College, Chennai-600127

Faculty Development Programming

On

"SUMMER ON CRYPTOGRAPHY AND NETWORK SECURITY"

JULY 11TH To 16TH 2022

REGISTRATION FORM

Name   : -----------------------------

Designation : -----------------------------

Gender   : -----------------------------

Organization: -----------------------------

Address   : -----------------------------

Mobile   :

E-mail   :

Category   :

Academic staff/ Research Scholar/Student

The registration details should be sent to the below mentioned Email Id:

nsbc19@gmail.com

CHIEF PATRON

Prof. M. Mala M.A., M.Phil.

Chairperson

PATRONS

Dr. R.Ramesh, Principal

Dr. Srinivasan (Prof. & Dean)

Dr. S. Surendran (HOD/CSE)

COODINATOR

Dr. B. Jaishanthi

Contact Info : bjaishanthi@tagore-engg.ac.in

ORGANIZING COMMITTEE

Ms.Dr. B. Selvalakshmi (AP / CSE)

Ms. S.S. Bhaviya(AP/CSE)

Ms. S . Jayanthi (AP/CSE)

FDP Date   : 11th to 16th June

Organized by

Department

Of

Computer Science and Engineering

TAGORE ENGINEERING COLLEGE
RATHINAMANGALAM,
CHENNAI-127

Website: www.tagore-engg.ac.in/nsbc
E-mail : nsbc19@gmail.com

About the College

Tagore Engineering College is a reputed institution that is affiliated to Anna University. Located 6 kms from Vandalur. The college is a heaven for academic activities. There are 7 streams of Engineering offered here viz, CSE, ECE, IT, Aero, Mechanical, Civil and EEE. The college also provides four Master's Degree programmes. The ME (CSE) in this institution ranks high among the private Engineering College that offers this course in Chennai. The College maintains an excellent academic record and is rerouted for its discipline and decorum.

About the Department

The Department of Computer Science and Engineering is one among the oldest disciplines of engineering in our college with an excellent infra structure facility. Our department believes in a single thought which exemplifies the

invites to numerous colleges all over India to take part in this national level technical workshop.

The department takes immense pleasure in inviting the students from all engineering colleges to make this event a grand success. It is a two days workshop organized by the department of CSE. This event will be a platform for the students to showcase their technical and soft skills talents.

About the fdp

The aim of this FDP is to introduce the faculty the areas of cryptography and cryptanalysis. This course develops a basic understanding of the algorithms used to protect users online and to understand some of the design choices behind these algorithms. Our aim is to develop a workable knowledge of the mathematics used in cryptology in this course. The course emphasizes to give a basic understanding of previous attacks on cryptosystems with the aim of preventing future attacks. A wide variety of basic

cryptographic primitives will be discussed along with recent developments in some advanced topics like identity-based encryption, attribute-based encryption, functional encryption, two-party/multi-party computation, bitcoin and crypto-currency and postquantum cryptography. The cryptanalysis part will help us understanding challenges for cyber security that includes network security, data security, mobile security, cloud security and endpoint security.

Topics to be covered

- Basic cryptography concept
- Cryptographic Algorithm
- Network Security Protocol
- Authentication and Authorization
- Secure communication Channel
- Key Management
- Security protocols and models
- Cryptographic attacks and countermeasure
- Digital Signature and Certificates
- Security standards and compliance

Day	Session 1 9.00 a.m. to 10.30 a.m.	Session 2 10.45 a.m. to 12.15 p.m		Session 3 1.30 p.m. to 3.00 p.m.	Session 4 3.15 p.m. to 4.45 p.m
11.07.2022	Security trends **Dr. S. Muthurajkumar** Assistant Professor, Department of Computer Technology, Anna Univerrsity Chennai	Model of network security **Dr. S. Muthurajkumar** Assistant Professor, Department of Computer Technology, Anna Univerrsity Chennai		Classical encryption techniques **Dr. P. Vasuki** Assistant Professor, Department of Computer Science and Engineering SSN College of Engineering, Chennai	Foundations of modern cryptography **Dr. P. Vasuki** Assistant Professor, Department of Computer Science and Engineering SSN College of Engineering, Chennai
12.07.2022	Mathematics Of Symmetric Key Cryptography **Dr. Anusooya G** Assistant Professor, Department of Computer Science and Engineering VIT,Chennai	SDES – Block cipher **Dr. Anusooya G** Assistant Professor, Department of Computer Science and Engineering VIT,Chennai	Lunch break	Differential and linear cryptanalysis **Dr.S.SADAGOPAN** Assistant Professor Department of Computational Intelligence, SRM Institute of Science and Technology, Kattankalathur,chennai	Advanced Encryption Standard **Dr.S.SADAGOPAN** Assistant Professor Department of Computational Intelligence, SRM Institute of Science and Technology, Kattankalathur,chennai
13.07.2022	Mathematics Of Asymmetric Key Cryptography **Dr. Anand.M** Assistant Professor Department of Data Science and Business Systems, SRM Institute of Science and Technology, Chennai	RSA cryptosystem **Dr. Anand.M** Assistant Professor Department of Data Science and Business Systems, SRM Institute of Science and Technology, Chennai		Diffie Hellman key exchange **Dr. R Kathiroli** Assistant Professor Department of Computer Technology Anna university, (MIT campus)	Elliptic curve cryptography Hands On **Dr. R Kathiroli** Assistant Professor Department of Computer Technology Anna university, (MIT campus
14.07.2022	Message Authentication Dr. Rukmani P Associate Professor Department of CSE, Vellore Institute of Technology, Chennai	Digital signature and authentication protocols Dr. Rukmani P Associate Professor Department of CSE, Vellore Institute of Technology, Chennai	Lunch break	Entity Authentication Dr. Jani Anbarasi L Assistant Professor, Department of Computer Science and Engineering VIT, Chennai	Authentication applications Hands On Dr. Jani Anbarasi L Assistant Professor, Department of Computer Science and Engineering VIT, Chennai
	Electronic Mail security	IP security		System Security Hands On	System Security Hands On

Date				
15.07.2022	Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai	Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai		Mrs. S.Bharvathavarthini Assistant Professor Department of CSE Tagore Engineering College, Chennai	Mrs. S.Bharvathavarthini Assistant Professor Department of CSE Tagore Engineering College, Chennai
16.07.2022	Message Authentication Mrs. P.Selvakumari Assistant Professor Department of CSE Tagore Engineering College, Chennai	Digital signature and authentication protocols Mrs. P.Selvakumari Assistant Professor Department of CSE Tagore Engineering College, Chennai		Entity Authentication Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai	Authentication applications Hands On Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai
17.07.2022	Test for Participants Ms.S.S.Bhaviya Assistant Professor, Tagore Engineering College, Chennai-600127	Group Discussion Ms. B.Selvalakshmi, Assistant Professor, Tagore Engineering College, Chennai-600127		Presentation by Participants Ms. B.Selvalakshmi, Assistant Professor Tagore Engineering College, Chennai-600127	Test paper Discussion and Distribution & Valedictory function Ms.S.S.Bhaviya Assistant Professor, Tagore Engineering College, Chennai-600127 Dr.B.Jaishanthi Associate ProfessorTagore Engineering College, Chennai-600127

Faculty Development Program

On

"CLOUD COMPUTING"

May 24th to 28th 2021

<u>**REGISTRATION FORM**</u>

Name   : -----------------------------

Designation : -----------------------------

Gender   : -----------------------------

Organization : -----------------------------

Address   : -----------------------------

Mobile   :

E-mail   :

Category :

Academic staff/ Research Scholar/Student

Signature

The registration details should be sent to the below mentioned Email Id

nsbc19@gmail.com

CHIEF PATRON

Prof. M. Mala M.A., M.Phil.

Chairperson

PATRONS

Dr. L. Raja, Principal

Dr. D. Sheela, (Prof. & Dean)

Dr. M. A. Paneerselvam, (Prof./EEE)

Dr. S. Surendran (HOD/CSE)

COORDINATOR

Mr.Sudheer Reddy

Organizing Committee

Ms. B. Jaishanthi (Asso. Prof / CSE)

Mr. D. Meenakshi(AP / CSE)

Ms. B. Selvalakshmi (AP / CSE)

FDP   : 24th to 28th May

Faculty Development Program

On

"CLOUD COMPUTING"

May 24th to 28th 2021

Organized by

Department

Of

Computer Science and Engineering

TAGORE ENGINEERING COLLEGE
RATHINAMANGALAM,
CHENNAI-127

Website: *www.tagore-engg.ac.in/nsbc*
E-mail : nsbc19@gmail.com

ABOUT THE COLLEGE

Tagore Engineering College is a reputed institution that is affiliated to Anna University. Located 6 kms from Vandalur. The college is a heaven for academic activities. There are 7 streams of Engineering offered here viz, CSE, ECE, IT, Aero, Mechanical, Civil and EEE. The college also provides four Master's Degree programmes. The ME (CSE) in this institution ranks high among the private Engineering College that offers this course in Chennai. The College maintains an excellent academic record and is rerouted for its discipline and decorum.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering is one among the oldest disciplines of engineering in our college with an excellent infra structure facility. Our department believes in a single thought which exemplifies the motto of our college "Labor to Glory". Our department boosts of highly qualified and well experienced faculty. The department of CSE has invited over about 60 colleges from Chennai city alone and has sent

invites to numerous colleges all over India to take part in this national level Faculty Development Program.

The department takes immense pleasure in inviting the Faculty from all engineering colleges to make this event a grand success. It is a five days workshop organized by the department of CSE. This event will be a platform for the faculty to showcase their technical and soft skills talents.

ABOUT THE FDP

Cloud computing is the biggest buzz in the computer world these days -- maybe too big of a buzz. Cloud computing means different things to different people. Cloud computing is not a small, undeveloped branch of IT. Research firm IDC thinks that cloud computing will reach $42 billion in 2012. You can do everything on the cloud, from running applications to storing data off-site. You can run entire operating systems on the cloud. Cloud Computing aims to provide computing everywhere. It delivers computing resources on demand over the internet in terms of anything anywhere, anytime concept. It provides everything as a service to its users, like infrastructure platform software, hardware workplace data, and security.

Cloud computing has made revolutionary transformations in government and business. Cloud Computing transforms the databases and application software into huge data centers, where the management of the services and data may not be trustworthy.

TOPICS COVERED

- Introduction to Cloud Computing
- Cloud Services Model
- Cloud Deployment Model
- Virtualization in cloud computing
- Cloud Infrastructure component
- Cloud security
- Cloud Storage and Database
- Cloud Networking
- Cloud Mitigation Strategy
- Monitoring and Management in Cloud
- Cloud Native Development
- Legal and Regulatory in Cloud Computing

Day	Session 1 9.00 a.m. to 10.30 a.m.	Session 2 10.45 a.m. to 12.15 p.m		Session 3 1.30 p.m. to 3.00 p.m.	Session 4 3.15 p.m. to 4.45 p.m
24.05.2021	Introduction to Cloud ComputingSystem Models for Distributed and Cloud Computing **Dr. Rukmani P** Associate Professor Department of CSE, Vellore Institute of Technology, Chennai	NIST Cloud Computing Reference Architecture **Dr. Rukmani P** Associate Professor Department of CSE, Vellore Institute of Technology, Chennai	Lunch break	Cloud deployment models – Cloud service models **Dr. Jani Anbarasi L** Assistant Professor, Department of Computer Science and Engineering VIT, Chennai	Cloud Infrastructure: Architectural Design of Compute and Storage Clouds – Design Challenges **Dr. Jani Anbarasi L** Assistant Professor, Department of Computer Science and Engineering VIT, Chennai
25.05.2021	Virtual Machine Basics – Taxonomy of Virtual Machines – Hypervisor – Key Concepts **Dr. K. Jayashree,** Department of Artificial Intelligence and Data Science Panimalar Engineering College chennai	Virtualization structure – Implementation levels of virtualization **Dr. K. Jayashree,** Department of Artificial Intelligence and Data Science Panimalar Engineering College, chennai		Full Virtualization – Para Virtualization **Dr.S.K.Lavanya** Professor Department of Computer Science and Engineering MIT,Chennai	Hardware Virtualization – Virtualization of CPU, Memory and I/O devices **Dr.S.K.Lavanya** Professor Department of Computer Science and Engineering MIT,Chennai
26.05.2021	Desktop Virtualization – Network Virtualization – Storage Virtualization – System-level of Operating Virtualization **Dr. B.Jaishanthi** Associate Professor Department of Computer Science and Engineering, Tagore Engineering College, Chennai	Virtual clusters and Resource Management – Containers vs. Virtual Machines **Dr. B.Jaishanthi** Associate Professor Department of Computer Science and Engineering, Tagore Engineering College, Chennai		Introduction to Docker – Docker Components – Docker Container **Dr. D. Soniya Priyadarshini** Associate Professor Department of CSE, MGR University, Chennai	Docker Container – Docker Images and Repositories **Dr. D. Soniya Priyadarshini** Associate Professor Department of CSE, MGR University, Chennai
27.05.2021	Google App Engine Dr. B.Selvalakshmi, Assistant Professor Department of Computer Science and Engineering, Tagore Engineering College, Chennai	Amazon AWS Dr. B.Selvalakshmi, Assistant Professor Department of Computer Science and Engineering, Tagore Engineering College, Chennai	Lunch break	Microsoft Azure Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai	Eucalyptus Mrs. G.Bhuvaneswari Assistant Professor Department of CSE Tagore Engineering College, Chennai
	Open Stack Mr.Sanjay Software Developer, Wipro Technologies, Chennai	Virtualization System-Specific Attacks : Guest hopping – VM migration attack - hyperjacking Mr.Sanjay Software Developer, Wipro Technologies,		Data Security and Storage Ms. Dixy.F.L Assistant Professor Department of Computer Science and Engineering,	Identity and Access Management (IAM) - IAM Challenges Ms. Dixy.F.L Assistant Professor Department of Computer Science

28.05.2021		Chennai		Tagore Engineering College, Chennai	and Engineering, Tagore Engineering College, Chennai
29.05.2021	Test for Participants Ms. Dixy.F.L Assistant Professor, Tagore Engineering College, Chennai-600127	Group Discussion B.Selvalakshmi, Assistant Professor, Tagore Engineering College, Chennai-600127		Presentation by Participants G.Bhuvaneswari Assistant Professor Tagore Engineering College, Chennai-600127	Test paper Discussion and Distribution & Valedictory function Dr.B.Jaishanthi Associate Professor Tagore Engineering College, Chennai-600127