

ORGANIZING COMMITTEE

Dr.G.A.V. Rama Chandra Rao, Assoc. Professor
Dr.G. Sita Ratnam, Assoc. Professor
Mr. G. Sateesh, Assoc. Professor
Mr. D.Madhu Babu, Assoc. Professor
Mrs. K.Sadhana, Assoc. Professor
Mr. B.Nageswara Rao, Assoc. Professor
Mr. K.Uma Shankar, Assoc. Professor
Mr.P.Jagannadha Varma, Assoc.Professor
Mr. U.Karthek Chandra Patnaik, Assoc. Professor
Mr V. Anji Reddy, Assoc. Professor
Mr. D.Satish, Assoc. Professor
Mr. SK.Nagul, Asst. Professor
Mrs. A.Subhalaxmi, Asst. Professor
Mrs. G.Yasoda Devi Asst. Professor
Mr P.Srinivas Rao, Asst. Professor
Mr. P.Ganesh, Asst. Professor
Mr. D.Sunil, Asst. Professor
Mr. J.Tulasi Ram, Asst. Professor
Mrs. M.Swetha, Asst. Professor
Mr. M. Sriramulu, Asst. Professor
Ms. B.Padmaja, Asst. Professor
Mr. S. Vinod Manikanta, Asst. Professor
Mr. Ravindranath, Asst. Professor

REGISTRATION

Limited Member of Participants on first come first serve basis will be given preference. ZOOM Link will be provided to Registered mail .**There is no Registration fee.**

Registration Link:

<https://forms.gle/xrpyxwVQvQFVTaw5>

**LAST DATE FOR
REGISTRATION**

**ONLINE
PLATFORM**

17-06-2020



CHIEF PATRONS

Sri. P.Madhusudana Rao, Chairman
Sri. P.Srinivasa Rao, Vice Chairman
Sri. K.Siva Rama Krishna, Secretary

PATRON

Dr.V.V.Rama Reddy, Principal

CONVENER

Prof.A.Rama Rao, HOD-CSE

CO-CONVENER

Dr.R.Rajender, HOD-CSSE

ADVISORY COMMITTEE

Dr. K. Sudheer Reddy, Principal Consultant,
Infosys, Hyd
Mr.G.Prakash Babu, Dean - T & P
Dr. S. Sridhar, Vice-Principal (Academics),
Dr T.Hari Babu, Vice-Principal (Admin)
Prof. K.V. Narasimham, COE(Autonomous)
Dr. M. Rajan Babu, ECE-HOD
Dr.P.D.Sailaja, S &H-HOD
Dr.P.Satish, Dean- R & D
Dr.K. Narasimha Raju, Professor, CSE
Dr.K.Jayasri, Professor, CSE

COORDINATOR

Mr.A.Yugandhara Rao, Assoc Professor,
CSE, LIET

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A THREE DAY ONLINE
FACULTY DEVELOPMENT PROGRAMME
ON

**"Information Security
& Cryptography"**

(20-06-2020 to 22-06-2020)

Organized by



Department of Computer Science
& Engineering

**Lendi Institute of Engineering
& Technology**

An Autonomous Institution

Accredited by NAAC with "A" Grade and
NBA, Permanently affiliated by JNTUK,
Kakinada

Vizag-Vizianagaram Road, Jonnada

Denkada Mandal, Pin: 535005

www.lendi.org

ABOUT COLLEGE:

Lendi Institute of Engineering & Technology is a Premier Institution established by a divine body of committed intelligentsia of Visakhapatnam to cater the needs of young graduates. It is just 35 km from Visakhapatnam situated at outskirts of city in serene atmosphere having a divine touch of lendi beside NH-43 its aim is to create a unique scenario of eligibility and elegant engineers to be brought out in to the society to compete with and complete the realistic technological needs of India. Lendi Established under the aegis of SAI DHAMAM EDUCATIONAL TRUST, Visakhapatnam which is born with the sacred objective of providing educations opportunities to the ever increasing engineering aspirants Lendi backed up by the trust, incorporates into the instruction of leadership competencies, citizenship, consciousness and personality development, moral ethical values that go beyond the curriculum, as the prompting trust attaches equal importance to integrating human values in to education

ABOUT DEPARTMENT:

As the technology is boon for the world with so many varieties, the usage of it is increasing daily in various ways. So the need of the hour is immense technical knowledge. We in the CSE department create that knowledge-hub by ensuring students with strong academics, programming and real-time exposure. Various symposiums, workshops and academic events are conducted at regular intervals to inculcate among students very strong technical aptitude and build leadership qualities in them. Online courses, seminars and webinars by top MNC experts are conducted to exploit the knowledge to its optimum. We streamline students by conducting various technical assessments and mock interviews which help them during campus interviews. Over the last seven years, around 500 engineers from this department have been graduated acquiring vital technical knowledge and got placed into various top MNCs with high salary packages.

CENTRAL THEME OF FDP:

Network Security & Cryptography is a concept to protect network and data transmission over wireless network. A network security system typically relies on layers of protection and consists of multiple components including networking monitoring and security software in addition to hardware and appliances.

OUTCOME OF FDP:

This will definitely boost the current faculties, researchers and academicians to take up the current research and develop new technologies in order to meet the challenges ahead in CSE

TOPICS TO BE COVERED:

DAY 1:

Introduction - Information Security

- i. Need for information security (Confidentiality, Integrity, Authenticity and Availability)
- ii. Real world Vs Network information security

Cryptography

- i. Symmetric key cryptography (AES, DES, 3-DES) – Session keys, Key size
- ii. Asymmetric key cryptography (RSA) – Public key, Private key
- iii. PKI – Public Key Infrastructure
- iv. Cryptography in Block chain, Crypto currency

DAY 2:

Digital Signatures

- i. Hashing functions (SHA, HMAC, MD5)

- ii. Digital Signature and Digital Certificate
- iii. Digital Signature validation, Trust chain
- iv. Digital document signing, XML signing and validation

Internet security

- i. Digital certificates, Certification Authority (CA)
- ii. Role of Browser in internet security
- iii. http Vs https, Telnet Vs SSH and ftp Vs sftp
- iv. Quantum computing and Cryptography

DAY 3:

Use case study – Aadhaar

- i. Security in Aadhaar Authentication
- ii. Security in Aadhaar Enrollment
- iii. Aadhaar Biometric Security

RESOURCE PERSON

Mr.Netaji Rao D,
Solutions Architect at Intel



TIMINGS:

20-06-2020 to 22-06-2020
(5:00 PM to 7:00PM)

CERTIFICATION:

E-Certificates will be issued to the participants who registered and participated in the FDP