

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science & Engineering VNR VJIET was started in 1995, and is one of the prestigious departments for its ability of Research and Development activities apart from the regular academic work. The Department offers B.Tech in CSE and M.Tech in Software Engineering and Computer Science Engineering. The Department obtained recognition as a Research Centre by JNTUH. The department has good infrastructural facilities and has well equipped laboratories with adequate software and hardware, catering to the fields of Data Mining, Image Processing, Computer Networks and Artificial Intelligence.

The Department has well experienced and qualified teaching faculty and supporting staff. The teaching faculty is active in doing research and publishing papers in reputed journals and conferences. Under Research and Consultancy Center (RCC), Virtual Reality Laboratory & Android Applications Laboratory was established and applications are being developed by CSE Department faculty and students. The Completed & Ongoing sponsored research projects are Driver Fatigue Monitoring System, Integrated Computing System for measuring safety index, GAIT Analysis, Converting Telugu text to speech index, Data Mining based revenue leakages identification. The Department conducts intensive FDPS, seminars, workshops, and technical symposia on latest trends and Technologies.

**Objective:** 1) To give a basic understanding of Cryptographic Algorithms and Network Security Protocols

2) Enable to assess existing Applications of Cryptography & Security to develop new Protocols and Applications that employ Cryptography and Privacy.

**Importance of Network Security** Network security is one of the most important aspects to consider when working over the internet, LAN or other method, no matter how small or big your business is. While there is no network that is immune to attacks, a stable and efficient network security system is essential to protecting client data. A

good network security system helps business reduce the risk of falling victim of data theft and sabotage.

Network security helps protect your workstations from harmful spyware. It also ensures that shared data is kept secure. Network security infrastructure provides several levels of protection to prevent MiM attacks by breaking down information into numerous parts, encrypting these parts and transmitting them through independent paths thus preventing cases like eavesdropping.

Despite the fact that it can open avenues to a number of useful applications and provide options for information sharing, many of the private networks consist of certain information that should not be shared with outside users on the web, which may sometimes result in application layer attacks, IP spoofing, DNS cache poisoning, password attacks, and man in the middle attacks.

Even though the internet has made security system of computer networks a top priority in many of the mainstream technology periodicals, most of the people across the globe do not know the importance of network security system. Network security system is an essential component of the configuration as well as network management. Implementation of effective network security provides both physical and information security to paths, links, and databases.

### COURSE TOPICS:

- 1 Number Theory, Modular Calculus
- 2 Security Protocols and Mechanisms
- 3 Cryptography Algorithms
- 4 Programming Using Multi Precision Library(GMP)
- 5 SAGE & NTL
- 6 Security Tools- Wireshark, Metasploit, NMAP, SNORT)
- 7 Digital Signature, Digital Certificates, Certificates Authorities, PKI
- 8 SSL, IPsec & Kerberos
- 9 Hands on Session to design & implement Security Protocols

### ✓ RESOURCE PERSONS:

- Eminent personalities from Reputed Organizations

### IMPORTANT DATES:

- Last date for receipt of application, duly forwarded by the Principal/Director of the Institute: **30-11-2018**
- On-line Confirmation of Selection of Participants: **01-12-2018**

### ELIGIBILITY FOR PARTICIPATION:

M.Tech Students , Research Scholars & Faculty from any Engineering College & PG Colleges

### COURSE FEE:

The course is free of cost for all participants. Refreshments will be provided during the sessions.

### ORGANIZING COMMITTEE:

**Dr. C. D. Naidu**  
Principal, VNR VJIET

**Mrs. B. V. Kiranmayee,**  
HOD-CSE

E-mail: csehead@vnrvjiet.in  
Phone: 040-23042758/59/60 Ext: 2500

### CONVENORS:

**Dr P V Siva Kumar**

Assoc Professor,  
E-mail: sivakumar\_pv@vnrvjiet.in  
Mobile: 9989767891

**Mr. S Kranthi Kumar(PhD)**

Assistant Professor,  
E-mail: kranthikumar\_s@vnrvjiet.in  
Mobile:9493329299

## REGISTRATION FORM

### 5- Day Short Term Training Program on “Applied Cryptography and Security Mechanisms”

3<sup>rd</sup> to 7<sup>th</sup> Dec 2018

Name : .....

Qualifications: .....

Designation: .....

Experience: .....

Address for Correspondence: .....

.....

.....

.....

.....

.....

.....

Tel: (O).....(R).....

.....

Fax:..... Cell:.....

E-mail:.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

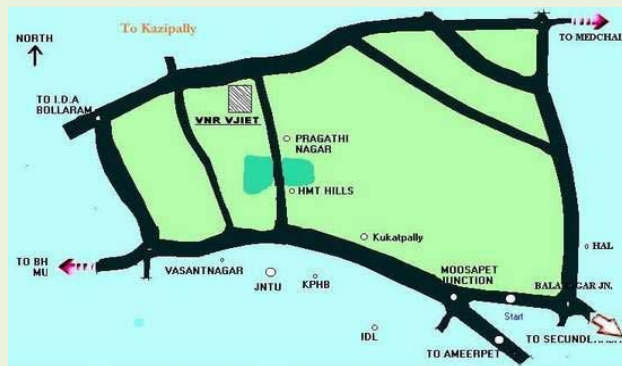
.....

## **ABOUT VNR VJIET**

Vallurupalli Nageswara Rao (VNR) Vignana Jyothi Institute of Engineering and Technology was established by “VIGNANA JYOTHI”. “Vignana Jyothi” was carved and created in the year 1991 by a dedicated group of Industrialists, Entrepreneurs and Professionals who felt that education is the light that wipes out the darkness of an uncertain future among the youth and determined to impart quality education to them without a profit motive. The institute, approved by AICTE & affiliated to JNTU was established in the year 1995 and is accredited by NBA. Being one of the most preferred colleges in Telangana State, VNR VJIET is well known for its discipline, technical excellence, infrastructure, record student performance, research activities, etc. VNR VJIET was accorded autonomous status in the year 2012 under UGC and also accorded ‘A++’ status by NAAC.

The college has established exclusive research facilities in most branches of engineering and science. The Research and Consultancy Cell (RCC) handles sponsored and consultancy projects in the advanced areas of engineering. The college is located near Bachupally Village, Ranga Reddy District.

## **LOCATION PLAN**



## 5- Day Short Term Training Program on “Applied Cryptography and Security Mechanisms”

3<sup>rd</sup> to 7<sup>th</sup> Dec 2018



Organized By

Department of Computer Science & Engineering

VNR VJIET

In Collaboration with

Computer Society Of India (CSI)



## VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

An Autonomous Institute,

Accredited by NAAC with ‘A++’ Grade,

NBA Accreditation for CE, EEE, ME, ECE, CSE, EIE, IT

B.Tech. Programmes

Approved by AICTE, New Delhi, Affiliated to JNTUH,

Recognized as “College with Potential for

Excellence” by UGC

Bachupally, Nizampet (S.O), Hyderabad –90.

Visit us at [www.vnrvjiet.ac.in](http://www.vnrvjiet.ac.in)