



**FACULTY DEVELOPMENT PROGRAMME(FDP)**  
ON  
**NEW DIRECTIONS IN CRYPTOGRAPHY AND**  
**APPLICATIONS TO CYBER SECURITY**



(27<sup>th</sup> May to 01<sup>st</sup> June 2019)

Organized by

**Sree Vidyanikethan Engineering College (Autonomous)**

in Association with

**E&ICT Academy, National Institute of Technology, Warangal**

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

**Preamble:**

"Electronics & ICT Academy" was setup at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

**About the Workshop:**

As part of an initiative of E&ICT, a Faculty Development Programme (FDP) on "New Directions in Cryptography and Applications to Cyber Security" is being conducted at Cyber Security and Cryptology Research Centre, Department of Computer Science and Systems Engineering, Sree Vidyanikethan Engineering College (Autonomous), Sree Sainath Nagar, A.Rangampet, Tirupathi, A.P to the faculty members of Engineering, MCA, Research Scholars and other allied disciplines.

**Major Course Contents:**

- Cryptographic primitives
- Cryptography algorithms
- Vulnerabilities of wired wireless and adhoc networks
- Wireless network security and defense in depth
- Design of secure protocols
- Network security protocols
- Digital signatures, Digital certificates, certificate authorities & PKI
- Programming using multi precision library(GMP)
- Hands on - design and implementation of security protocols
- Hands on - security simulation tools (AVISPA)
- Security audit and risks
- IoT and Cloud Integration
- Multi server Authentication
- Advanced cryptosystem
- Cloud Security Engineering
- Blockchain technology

**Faculty conducting this programme:**

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

**Eligibility:**

The programme is open to the faculty of Engineering Colleges, MCA Colleges and other allied disciplines in India. Research Scholars and Industry working professionals in the concerned /allied discipline can also attend.

**Registration Fee Particulars:**

Faculty and Research Scholars	Rs. 2500/-
Faculty of SC/ST Category	Rs.1875/-(SC/ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Industry Participants	Rs. 7500/-

**SC/ST concession is only for faculty of mentioned states. Research Scholars are not eligible for SC/ST concession.**

The fee is to be paid either in the form of DDs or online transfer using the following details:

DD Details	Online Transfer Details
Demand Draft in favor of "E & ICT Academy, NIT Warangal" payable at any bank in Warangal	Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC: SBIN0020149

**Accommodation:**

Accommodation will be provided to the selected outside participants on prior request. No TA/DA will be paid for the participants. Working Lunch, Tea & Snacks would be provided during the Training in the campus.

**Venue:** Sree Vidyanikethan Engineering College, Tirupathi

**How to apply:**

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the host institute coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through email to [nareshmuppalaneni@ieee.org](mailto:nareshmuppalaneni@ieee.org) as selection will be intimated only through mail.

**Selection Criteria:**

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

**Important dates:**

<b>Last date (Application &amp; DD)</b>	<b>15<sup>th</sup> May 2019</b>
<b>Selection List by E- mail</b>	<b>18<sup>th</sup> May 2019</b>
<b>Duration</b>	<b>27<sup>th</sup> May -01<sup>st</sup> June, 2019</b>

**About NIT Warangal:**

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D. programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

**About SVEC:**

Sree Vidyanikethan Engineering College was established in 1996 with an initial intake of 180 students to serve the cause of technical education in the backward region of Rayalaseema. The intake has increased exponentially to 2112 in 2017-18. The College now offers 8 B.Tech programs; 8 M.Tech programs; MCA Program; and 3 Doctoral Programs. The College has been accorded Autonomous Status by the UGC in 2010-11 which was extended for six years (from 2016-17 to 2021-22). The College was successfully implemented TEQIP-II under Sub-component 1.1: Strengthening Institutions to improve Learning Outcomes and Employability of Graduates, funded by the Ministry of HRD, Govt. of India. The College has been accorded "UGC-Colleges with Potential for Excellence" status under CPE Scheme by UGC. It also has been accorded 'PLATINUM' category by CII-AICTE Survey; and was conferred with 'A' Grade by Department of Higher Education, Andhra Pradesh.



## APPLICATION FORM

### FACULTY DEVELOPMENT PROGRAMME(FDP) ON NEW DIRECTIONS IN CRYPTOGRAPHY AND APPLICATIONS TO CYBER SECURITY

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1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :

#### SPONSORSHIP CERTIFICATE

#### 6. Fee Details

DD	Online Transfer
DD No:	Reference No:
Amount:	
Bank:	
Date:	

Dr./Mr./Mrs./Ms \_\_\_\_\_

is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “New Directions in Cryptography and Applications to Cyber Security”, sponsored by Electronics & ICT Academy during 27<sup>th</sup> May–01<sup>st</sup> June 2019 at Sree Vidyanikethan Engineering College, Tirupathi.

Signature of Head of  
Institution (with seal)

#### 7. Address for Correspondence:

#### Address for correspondence

*Post your application form with DD to*

#### 8. Educational Qualification:

#### 9. Subjects taught so far:

#### 10. No. of refresher courses/workshops attended:

#### 11. Experience (in years):

Teaching:                      Research:                      Industry:

#### 12. Accommodation required:      YES / NO

#### 13. Do you belong to SC/ST :      YES /NO

Dr. M. Naresh Babu

Associate Professor, Department of CSSE

Sree Vidyanikethan Engineering College,

Sree Sainath, A.Rangampet, Tirupathi-517102

Mobile: 8897165555,

E-mail: [nareshmuppalaneni@ieee.org](mailto:nareshmuppalaneni@ieee.org)

*E-mail the scanned copies of filled-in and duly signed application form along with DD to*

[nareshmuppalaneni@ieee.org](mailto:nareshmuppalaneni@ieee.org)

(If yes, please specify and attach a copy of caste certificate to claim the concession)

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <http://www.nitw.ac.in/eict/>

#### Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Signature of the Applicant

### Coordinators

**Dr.R.Padmavathy**

Associate Professor, Dept. of CSE

National Institute of Technology Warangal

Telangana–506004

**Dr. M. Naresh Babu**

Associate Professor, Dept. of CSSE

Sree Vidyanikethan Engineering College

Tirupathi-517102