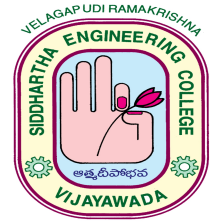




**AICTE Training And Learning (ATAL) Academy
Sponsored Five-days Online
Faculty Development Programme (FDP)
on
Cyber Security and Digital Forensics**



26th - 30th July , 2021

Convener :

[Prof R .Mariappan](#)

Coordinators :

Ms. M. Sunitha & Ms Ratna Prabha, Asst. Professors, Department of ECE

Sponsored By

AICTE Training and Learning (ATAL)

Organized By

**Department of Electronics & Communication Engineering
V.R. Siddhartha Engineering College (Autonomous)**

Vijayawada, Andhra Pradesh-520 007

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PROGRAMME OBJECTIVE

The Department of Electronics & Communication Engineering, V. R. Siddhartha Engineering College, Vijayawada is organizing AICTE Training and Learning (ATAL) Academy sponsored 5 days online Faculty Development Programme (FDP) on “Cyber Security and Digital Forensics (CSDF-2021)” during 26th - 30th July 2021.

With increase in usage of the Internet, there has been an exponential increase in cyber-attacks. Cyber criminals use new and clever tricks to bypass security solutions. Cyber Security and Digital Forensics are integral part of the organization's security services. The aim of this FDP is to promote research in Cyber Security and Digital Forensics which includes topics like data collection tools, data scanning techniques for threat intelligence, data analytics, forensics tools for memory, mobile phones, network, Internet of things (IoT), social engineering, etc.

This online FDP is aimed to discuss the state-of-the-art research and development in Cyber Security Intelligence and Digital Forensics. The indicative pool of topics to be covered is as follows but are not limited to:

- **Introduction to Cyber Threat Intelligence**
- **Cyber Threat Data Collection Techniques**
- **Information Security Risk Assessment and Management.**
- **Intrusion Analysis and Dissemination**
- **Penetration Testing**
- **Malware Analysis**
- **Memory, Network, Application, Hardware and Cloud Forensics Tools and Techniques**
- **Cyber Laws and Ethics**
- **Digital Forensics**
- **Adaptive Cyber Defence and Immunity**

ABOUT THE INSTITUTE

Velagapudi Ramakrishna Engineering College (VRSEC), was established in the year 1977 as the first self-financing engineering college in the state of A.P. It is located in a vast expanse of 24.05 acres of land on the outskirts of Vijayawada city at a distance of about 6 Kms from the city centre. The college is offering 7 UG (B.Tech) Courses, 9 PG (M. Tech) courses , MBA and MCA . The college has been accredited four times by National Board of Accreditation (NBA) of All India Council for Technical Education (AICTE), New Delhi in respect of all Engineering disciplines and also certified for ISO 9001:2015. It is affiliated to Jawaharlal Nehru Technological University, Kakinada, AP. Autonomous status was conferred by UGC in the year 2006 and extended for 10 years up to 2027-28, first in AP. It is one among the top 16 engineering colleges selected with Rs 6 crores funding under World Bank aid for R & D and PG enhancement programme called TEQIP –II (S.C.1.2) by MHRD, Govt. of India. The institute secured AAA ranking and all India 7th position for the participation by students and faculty in NPTEL/SWAYM. The College received Platinum Award in years 2017, 2018 & 2019 as a Best Industry Linked Technical Institute by AICTE-II Survey. It is also recognized as “Scientific & Industrial Research Organization (SIRO)” by DSIR. MST, Govt. of India since August 2017.

ABOUT THE DEPARTMENT

The department of Electronics and Communication Engineering(ECE) is running UG programme B.Tech (ECE) since 1977 and PG programme M.Tech. (VLSI) and M.Tech Communication Engineering since 2007. Department is also offering Ph.D. programme since 2007. The department has well qualified and dedicated faculty members with the specialization in niche areas like Embedded systems, VLSI design, Wireless Communications, Image processing, Wireless sensor network, Computer vision, Internet of Things (IOT), etc.

ELIGIBILITY

The faculty members of the AICTE approved institutions, research scholars, PG Scholars,participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) and staff of host institutions.

Requirements to get E-Certificate :

1. Laptop / PC with good internet connectivity.
2. **Minimum 80% attendance** is required out of 14 sessions of the entire course.
3. **Minimum 60% marks** in the Final assessment test online at the end of FDP.



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RESOURCE PERSONS

 <p>Dr Sateesh Kumar Dept of CSE, IIT Roorkee</p>	 <p>Dr G Rama Murthy Dept of CSE, Mahindra University, Hyderabad</p>	 <p>Ch A. S. Murthy CDAC, Hyderabad.</p>	 <p>Dr.MJ Shankar Raman IITM Pravartak Tech Foundation, Chennai.</p>
 <p>Dr. Adarsh Kumar Dept of CSE, UPES, Dehradun.</p>	 <p>Er. Amrendra Sharan Dept of CSE NITTTR Chandigarh</p>	 <p>Dr VM. Manikandan Dept of CSE SRM University-AP</p>	 <p>Dr. Bhupendra Singh Dept of CSE IIT Pune</p>
 <p>Mr Ashok Kumar M TIFAC-CORE_Cybersec Amrita Vishwa Vidya Peetham, Coimbatore</p>	 <p>Mr. Ajinkya Lohakare Certified Ethical Hacker, Mumbai.</p>	 <p>Prof R Mariappan Dept of ECE VRSEC, Vijayawada.</p>	 <p>Dr. Sarath Bodepudi Psychiatrist PSIMS, Vijayawada.</p>



AICTE Training And Learning (ATAL) Academy
sponsored
Faculty Development Programme (Online) on
FOUNDATIONS OF CYBER SECURITY & DIGITAL FORENSICS (Elementary)
26th -30th July, 2021



Programme Schedule

Days / Time	9:00-11:00 AM	11:30 AM-1:30 PM	2:30 - 4.30 PM
26th July 2021 Monday	Session-1 (9:15-11:15AM) Introduction to Cyber Security & challenges Dr Sateesh Kumar, IIT Roorkee	11-11:30 AICTE-ATAL Inauguration	12:00-1:00 pm Bridge Session: Prof R Mariappan
27th July 2021 Tuesday	Session -3 Open Source Tools in Cyber Sec Ch A.S Murthy, CDAC Hyderabad	Session -4 Cyber Threat Data Scanning Tools Dr MJ Shankar Raman, IITM Pravartak Tech Foundation	Session -5 Cyber Threat Intelligence & Data collection and scanning tools - handson Dr. Adarsh Kumar, UPES
28th July 2021 Wednesday	Session -6 Wireless / Wi-Fi Network Defence & Counter Measures Dr G Rama Murthy, Mahindra University Hyderabad	Session -7 Trojan, Back-doors, Intrusion, Malware Analysis & counter measures Dr G Rama Murthy, Mahindra University Hyderabad	Session -8 Ethical Hacking, DNS Hacking and Counter measures Mr.Ajinkya, Certified Ethical Hacker Mumbai
29th July 2021 Thursday	Session -9 Digital Forensics Tools Mr Ashok Kumar Mohan TIFAC-CORE-Cybersec, Amrita Vishwa Vidya Peetham, Coimbatore	Session -10 Jump List Forensics in Windows OS Dr Bhupendra Sing, IIIT Pune.	Session -11 Digital Image Forgery Detection Dr V M Manikandan, SRM University -AP, Vijayawada.
30th July 2021 Friday	Session -12 High Risk Vulnerabilities in Web Apps & IT Auditing Shri Amrendra Sharan, Dept of CSE, NITTTR, Chandigarh	Session -13 Open Source Framework for Penetration testing Shri Amrendra Sharan, Dept of CSE, NITTTR, Chandigarh	Session -14 SQL Injection, XSS Vulnerability, Server Hacking Shri Amrendra Sharan, Dept of CSE, NITTTR, Chandigarh