



Vidya Academy of Science and Technology

A Unit of Vidya International Charitable Trust

Thalakottukara, Thrissur, Kerala - 680501

www.vidyaacademy.ac.in

AICTE Sponsored Online Short
Term Training Programme
(STTP) on

Emerging Trends in Cryptography
and its Applications in
CYBER SECURITY



ORGANIZED BY

**Department of
Computer Science
and Engineering**

WORKSHOP COORDINATOR

Dr. Ramani Bai V

HoD Dept. of CSE





ABOUT OUR COLLEGE

Vidya Academy of Science & Technology (VAST) is a state-of-the-art engineering college conforming to international standards. This model engineering college is approved by AICTE vide approval NO./06/KER/ENGG/2002/91 dated 12/05/03 and affiliated to APJ Abdul Kalam Technological University. In few years VAST has evolved and achieved recognition as a notable School of Engineering with its competent and committed faculty, high quality infrastructure and high technology teaching aids, and by providing a serene atmosphere that complements academic life. VAST has a holistic approach to education where academic training goes hand in hand with offerings that develop the body, mind and soul to prepare its graduates to be future leaders.

ABOUT OUR DEPARTMENT

The Department of Computer Science and Engineering is part of Vidya's long record of academic excellence, and we uphold this reputation with confidence. We offer B.Tech and M.Tech courses. Our goal is to equip the students with career opportunities in various fields of computer engineering. The department is regularly conducting seminars and workshops for the benefit of both staff and students. The department has tie up with industries like IBM, Infosys, TCS, Wipro etc and also has a very good placement record. We have an ITIMS division for the entire campus IT solution. The labs are equipped with an advanced and sophisticated networked computing environment. Multiple dedicated leased line access with internet bandwidth of 4Mbps from Asianet and 10Mbps from National Knowledge Network (NKN) serves the labs and the rest of the campus. All software products of Microsoft are available through Microsoft campus agreement.

Vision : Progress through quality education and become a centre of excellence in computing knowledge.

Mission : To seek, to strive for advancements in technological and social aspects so as to create socially responsible engineers in the field of computer science, who will embark to further reduce gap between science and man-kind.

ABOUT THIS PROGRAMME

Cyber security is an important requirement for global organization and modern society as we exist in a data-centric world. The challenge to understand cyber risk and deliver effective and accessible security becomes harder as technology continues to rapidly evolve and our systems become ever more complex. Key elements of cyber security include information Security, Network Security, Application Security, Disaster Recovery / Business Continuity planning and education. One of the most challenging elements of cyber security is fast and constantly evolving nature of cyber risk.

The Scope of the STTP is to explore the latest concepts, challenges and future directions of Cyber Security. The primary objective of this workshop is to provide theoretical and practical awareness on recent trends & technology in the field of Cryptography and Cyber Security for the Faculties from AICTE Affiliated Institutions.



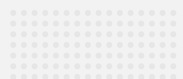
PROGRAMME SCHEDULE

Six-Day STTP

TERM 1 14-12-2020 to 19-12-2020

TERM 2 21-12-2020 to 28-12-2020

| | TIME | SESSION | RESOURCE PERSON |
|-------|---------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DAY 1 | 9.30 AM - 10.00 AM | Inauguration | |
| | 10.00 AM - 12.00 PM | Introduction to Cryptography and Cyber Security | Ms. Jyothi Ramaswamy <i>Cyber Security, TCS Trivandrum</i> |
| | 1.30 PM - 4.00 PM | What are the Paths for Better Security? | Dr. M. Sethumadhavan <i>Head - Cybersecurity, TIFAC CORE in Cyber Security, Amrita Vidyapeetham, Coimbatore</i> <i>Professor, Mathematics, School of Engineering, Coimbatore</i> <i>Professor, Computer Science Engineering, School of Engineering, Coimbatore</i> |
| DAY 2 | 9.30 AM - 12.00 PM | Visual Cryptography | Dr. Praveen K <i>Asst. Professor, TIFAC CORE in Cyber Security, Amrita Vidyapeetham, Coimbatore</i> |
| | 1.30 PM - 4.00 PM | Multimedia Security | Dr. Amritha P. P. <i>Asst. Professor, TIFAC CORE in Cyber Security, Amrita Vidyapeetham, Coimbatore</i> |
| DAY 3 | 9.30 AM - 12.00 PM | Secure Authenticated Encryption | Dr. Chungath Srinivasan <i>Asst. Professor, TIFAC CORE in Cyber Security, Amrita Vidyapeetham, Coimbatore</i> |
| | 1.30 PM - 4.00 PM | Block Chain and Bitcoins | Dr. Panchami V <i>Assistant Professor, IIIT, Kottayam</i> |
| DAY 4 | 9.30 AM - 12.00 PM | Network Penetration Testing | Mr. Kalathil Karthik <i>CTO Wattlecorp Cybersecurity Labs</i> |
| | 1.30 PM - 4.00 PM | Hacking a Simulated Server | Mr. Kalathil Karthik <i>CTO Wattlecorp Cybersecurity Labs</i> |
| DAY 5 | 9.30 AM - 12.00 PM | Web Application Penetration Testing | Mr. Zuhair E <i>CEO Wattlecorp Cybersecurity Labs</i> |
| | 1.30 PM - 4.00 PM | DVWA Practice | Mr. Zuhair E <i>CEO Wattlecorp Cybersecurity Labs</i> |
| DAY 6 | 9.30 AM - 12.00 PM | Case Studies in Cyber Crime | Dr. Pattathil Dhanya Menon <i>Cyber Crime Investigator</i> <i>Director - Avanzo Cyber Security Solutions</i> |
| | 1.30 PM - 3.30 PM | Test and Evaluation | |
| | 3.30 PM - 4.00 PM | Valedictory Function | |



PROGRAMME MONITORING COMMITTEE

Dr. Saji C B
Principal

Dr. V N Krishnachandran
Vice Principal, HoD MCA

Dr. Sudha Balagopalan
Dean Academics

Dr. C Justine Jose
HoD, CED

Dr. Ramani Bai V
HoD, CSED

Dr. S Swapna Kumar
HoD, ECED

Dr. Mary P Varghese
HoD, EEED

Dr N Ramachandran
HoD, MED

Dr. Dileep K
HoD, PED

WHO CAN PARTICIPATE

Faculties from AICTE Affiliated Colleges.

Maximum number of participants is limited to **Hundred (100) per Term.**

OBJECTIVES OF THIS PROGRAMME

- To understand the the theoretical foundations of cryptography and cyber security.
- To analyse and detect the vulnerabilities in multimedia files.
- To familiarise visual cryptographic methods.
- To understand the concepts of blockchain.
- To train the participants to use the cyber security tools for network and web penetration testing.
- To realise about different Cyber crimes.

CERTIFICATION

E-Certificate will be issued to participants who have attended the registered batch with a minimum attendance of 90% and minimum score of 60% marks in the online test which will be conducted at the end of the respective term.

FOR ENQUIRIES

Ms. Geethu P C
+91 9074 83 8529
geethu.p.c@vidyaacademy.ac.in

Ms. Salitha K K
+91 9746 90 4292
salitha@vidyaacademy.ac.in

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DIRECTIONS
To Campus



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