



Strategy and Synergy for Security

SOCIETY FOR ELECTRONIC TRANSACTIONS AND SECURITY (SETS)

(Under the O/o Principal Scientific Adviser to the Government of India)

MGR Knowledge City, CIT Campus, Taramani, Chennai - 600113 Tamil Nadu

www.setsindia.in

Cyber Security Training Programs

ABOUT SETS

Society for Electronic Transactions and Security (SETS) was set-up as a premier Research Institution to work in the area of Information Security under the Office of the Principal Scientific Adviser to the Government of India. It has established an Advanced Facility in Information Security and Cryptology working in the research areas of Information Security as Knowledge Centre with the following objectives:

- Knowledge Creation in Cryptology, Hardware Security and Network Security to meet the specific long-term and short-term needs of the Nation
- Knowledge Application by translating the knowledge created into solutions/products to meet the specific needs of the organizations in collaboration with academia and industry
- Knowledge Dissemination through sharing its expertise by organizing training programs, workshops and national conferences

SETS is conducting number of training programs in the areas of Cyber Security Essentials, Cryptography and Public Key Infrastructure, Network Security, Ethical Hacking, Block Chain for Cyber Security and Artificial Intelligence for Cyber Security. The details of the training programs are given below:

Cyber Security Essentials	Cryptography and Public Key Infrastructure	Network Security
Date: 6-8 May 2019 (3 Days)	Date: 9-10 May 2019 (2 Days)	Date: 13-17 May 2019 (5 Days)
Course Fee: Rs.6,000/-	Course Fee: Rs. 4,000/-	Course Fee: Rs. 10,000/-
<ul style="list-style-type: none"> • Recent Trends in Cyber Security • Cryptography-concepts and their applications • Mobile Security • Secure coding practices using C • Linux File Systems • Hardening Linux Operating System • Hands-on session 	<ul style="list-style-type: none"> • Cryptography concepts and their application • Symmetric Key Cryptography • Public Key Cryptography • Digital Certificates • Secure protocol used in WWW <p>Tools used: SAGE, GMP, NTL, CRYPTOL</p>	<ul style="list-style-type: none"> • Networking protocols and Packet Analysis • Perimeter Security and its implementation • Firewalls • Intrusion Detection and Prevention Systems (IDPS) • Virtual Private Network (VPN) • Security Information and Event Management (SIEM) • End system security(Mobile / IoT) • Hands-on session with below specified tools <p>Tools Used: Wireshark, Snort, ELK stack, IPTABLES, OpenVPN, OSSEC</p>
Ethical Hacking	Block Chain for Cyber Security	Artificial Intelligence for Cyber Security
Date: 20-24 May 2019 (5 Days)	Date: 27-29 May 2019 (3 Days)	Date: 30-31 May 2019 (2 Days)
Course Fee: Rs.12,500/-	Course Fee: Rs. 8,000/-	Course Fee: Rs. 6,000/-
<ul style="list-style-type: none"> • Information Gathering • Scanning and Enumeration • Exploitation • Post Exploitation • Web Application Security • Reporting • Cyber Security Standards <p>Tools Used: Metasploit, Burp Suite, Nessus</p>	<ul style="list-style-type: none"> • Blockchain and Cryptographic Essentials • Blockchain Platforms • Multichain • Hyperledger Fabric <p>Frame work: Multichain, Hyperledger</p>	<ul style="list-style-type: none"> • AI for Cyber Security • Machine Learning Algorithms & Tools • Data Cleaning • Feature Engineering • Deep Learning and its tools • Artificial Neural Networks • Hands-on on network traffic analysis using Artificial Intelligence <p>Tools Used: WEKA, Tensor Flow</p>

TARGET PARTICIPANTS	PRE-REQUISITES
<ul style="list-style-type: none"> • Engineers from R&D Labs & Industry • Cyber Security Professionals • System Administrators • Network Administrators • Engineering College/ University faculty • Researchers 	<p>The candidates should have basic knowledge in Networking, Operating Systems, Programming and Cyber Security concepts.</p>
	LAST DATE
	<p>Registration fee along with registration form should be sent to the Coordinator on or before 2 days of the each training programme starting date.</p>

Venue: Society for Electronic Transactions and Security (SETS), Chennai (Near Tidel Park/Opp. to Ramanujan IT City Exit Gate No.3).

Accommodation Facilities: Limited on-campus accommodation will be available on payment on first come first serve basis.

All communications should be addressed to:

The Coordinator
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