SHARDA UNIVERSITY
Beyond Boundaries

NAAC A+ ACCREDITED

Center for Cyber Security and Cryptology (CCS&C)
Sharda University

40-Hour

Hybrid Training Program on

PYTHON FOR CYBER SECURITY

23rd June to 5th July, 2025

Hybrid (Online + Offline)

Modules to be Covered:

1. *Python Essentials for Cybersecurity*
2. *Networking, Enumeration & Threat Detection with Python*
3. *Offensive Security – Ethical Hacking & Vulnerability Analysis*
4. *Cryptography, Forensics & Malware Analysis*
5. *AI-Based Threat Detection and Governance, Risk & Compliance (GRC)*

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Convener

Prof. Shri Kant
Head, Centre for Cyber Security & Cryptology
Sharda University

Co - Conveners

Dr. Ravi Prakash Chaturvedi
Assistant Professor, Sharda University

Prof. Amrita
Professor, Sharda University

Dr. Akash Shah
Assistant Professor, Sharda University

Mr. Prashant Upadhyay
Assistant Professor, Sharda University

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Venue:
Sharda University, Greater Noida

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The Center for Cyber Security and Cryptology (CCS&C), Sharda University, will organize a

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About the University

Sharda University is a leading Educational Institution, NAAC A+ graded, and has an NIRF ranking of 86, located at Greater Noida, Delhi NCR. It is a venture of the renowned Sharda Group of Institutions (SGI). The University has established itself as a high-quality education provider with a prime focus on holistic learning and imbibing competitive abilities in students. The University is approved by UGC and prides itself in being amulti-disciplinary campus in the NCR, spread over 63 acres and equipped with world-class facilities. There are 14 different schools offering 130 programs with more than 13000 students from 95 different countries. Sharda University promises to become one of India's leading universities with an acknowledged reputation for excellence in research and teaching.

About the Center for Cyber Security and Cryptology:

The Center aims at the promotion of interdisciplinary research as well as training and development in cybersecurity and cryptology. The center aspiresto develop cutting-edge research activities in the field of cybersecurityand related technologies, to enhance knowledge for present and future requirements to fulfill the growing demand in the national and international arena. The goal of this Center is primarily to foster fundamental as well as demand-driven "research and applications in cryptology and cybersecurity". The objectives are to create a skilled manpower base and to provide training and direction to various wings of the Armed Forces, Central and State Police Organizations, and also financial institutions. Another major objective of the Centre is capacity building at the national level to make the country self-sufficient in this niche area.

About the Training Program:

Objective:

This course delivers professional-level security automation techniques using Python. Participants will gain hands-on experience in real-time network analysis, threat detection, malware analysis, and penetration testing. It covers script-based attacks, CVE analysis, IoC detection, and ethical hacking. Learners will explore OSINT, cryptographic operations, and forensic practices. Real-world attack simulations enhance both defensive and offensive skills. The course also aligns with GRC frameworks, teaching Python-driven auditing and risk analysis, empowering participants to secure critical infrastructure and enterprise environments effectively and efficiently.

Scope of the Training Program:

Python plays a vital role in modern cybersecurity, enabling automation, threat analysis, and rapid response. This training covers areas like VAPT, log analysis, cryptographic operations, web exploitation, and malware analysis. Participants will learn to simulate attacks, automate defenses, and build custom tools. The course includes OSINT, phishing detection, secure API interaction, and AI-driven security. Designed for professionals, students, and law enforcement, it equips learners to protect digital assetsfrom personal data to national infrastructureagainst evolving cyber threats with practical, Python-based solutions.

Eligibility

Faculty Members, Research Scholars, and UG and PG Students of Academic Institutions, Government and PSU Officials, and Industry Personnel.

Topics to be Covered (but not limited to): Five modules with eight hours each

Module 1: Python Essentials for Cybersecurity

Module 2: Networking, Enumeration & Threat Detection with Python

Module 3: Offensive Security – Ethical Hacking & Vulnerability Analysis

Module 4:Cryptography, Forensics & Malware Analysis

Module 5:AI-Based Threat Detection and GRC

Important Dates

- Last Date for Registration: **20-06-2025**
- Start of the Programme: **23-06-2025**
- End of the Programme: **05-07-2025**

Registration Process

Kindly do the following for registration:

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1. Registration Charges – Rs. 1000 (Inclusive 18% GST)

Note: Kindly fill Programme name **(TPPC)** while making the payment **No. Cheque/Cash payment is accepted. Amount is non-refundable**

Bank Details for online payment

Bank Name :	**ICICI Bank Ltd.**
Branch Address :	**Krishna Apra Royal Plaza, D-2, E(acb), Alpha-1, Greater Noida, Gautam Budh Nagar, UP- 201306**
Account Holder Name :	**Sharda University-Seminar**
Account No. :	**025405005815 (CURRENT AC)**
IFSC Code :	**ICIC0000254**
SWIFT Code :	**ICICINBBCTS**
MICR Code :	**110229037**

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2. Registration Link: After payment, kindly fill the following registration form:
https://forms.gle/EoxTKp8pqtZ4Gpau8

Note: Applicants who are selected for the Training Program will be intimated via mail.

Certification

An evaluation will be done at the end of the program and the certificate will be issued to those participants who have attended the program with 80% attendance and filled the feedback form.

Organizing Committee

Chief - Patrons

Shri. P. K. Gupta
Hon. Chancellor, Sharda University

Shri. Y. K. Gupta
Hon. Pro-Chancellor, Sharda University

Patron

Prof. (Dr.) Sibaram Khara
Vice Chancellor, Sharda University

Co - Patrons

Prof. ParmaNand
Pro-Vice Chancellor, Sharda University

Dr. Bhuvnesh Kumar
Dean Research, Sharda University

Convener

Prof. Shri Kant
Head, Centre for Cyber Security & Cryptology
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Prof. Amrita, Professor, Sharda University
Dr. Akash Shah, Assistant Professor, Sharda University
Mr. Prashant Upadhyay, Assistant Professor, Sharda University

Advisory Committee:

Mr. Prakhar Mittal, Atricure, USA
Mr. Subramanya Shashank Gollapudi Venkata, META, USA
Prof. Monica Mehrotra, Jamia Millia Islamia, India
Mr. Shashank Reddy Nandi, USAA, USA
Dr. Nirmala Shah, University of Delhi, India
Mr. Srinivasa Raju Birudaraju, USA
Mr. Harish kumar Krishnamurthy Sukumar, LTIMindtree Ltd , USA
Mr. Ravi Jaiswal, USA
Mr. Murali Natti, Apple, USA

Organizing Committee:

Mr. Vinod Kr. Kashyap, Network Administrator, Sharda University
Mr. Alvary Kefas Kwala, Research Scholar, Sharda University
Ms. Deepika Singh, Junior Research Fellow, Sharda University
Mr. Aman Singh, Junior Research Fellow, Sharda University

Student Committee

Krishna Jindal, Sharda University
Hilansh Kharb, Sharda University
Shivangi Jindal, Sharda University
Sneha Mishra, Sharda University
Ishika Dhiman, Sharda University

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