UrbanScholar

PROGRAM BROCHURE

CAREER TRACK · CYBER SECURITY

CYBER SECURITY



A defense-and-offense training track — networking, ethical hacking, and security operations — for learners who want to secure real systems, not just memorize the OWASP list.

10–12	8	6	2
WEEKS	MODULES	CAPSTONES	PROGRAM TRACKS

TWO TRACKS · KICKSTART & CAREER

Program Overview

How this track builds both defensive and offensive security skills

Practice on real attack surfaces. This track pairs every concept — networking, cryptography, web security — with hands-on labs, so you learn to think like both an attacker and a defender, not just recite terminology.

Built-in mentorship. Each module closes with a mentor-reviewed checkpoint, so gaps get caught early instead of at the final capstone.

Career layer, not an afterthought. Resume positioning, interview readiness, and aptitude prep run alongside the technical modules — not bolted on in the last week.

Who This Is For

- Students & freshers targeting SOC/security analyst roles
- IT/network professionals moving into security
- Anyone comfortable with basic networking concepts

What You'll Walk Away With

- 6 hands-on security projects for your portfolio
- Working fluency in Wireshark, Nmap & Metasploit
- A recruiter-ready resume built around real security work

Program Snapshot

18+ Hrs Live Instructor-Led Sessions

6 Hands-On Security Projects

8 Structured Learning Modules

Training + Internship Certificate

Mentor-Reviewed Project Checkpoints

Placement & Interview Support

Learning Path

8 modules, sequenced from foundations to deployment

1 · Cyber Security Fundamentals

- The CIA triad & core security principles
- Today's threat landscape & attacker types
- Security terminology you'll use daily

2 · Networking for Security

- OSI/TCP-IP model, ports & protocols
- Firewalls & VPNs in practice
- Packet analysis with Wireshark

3 · System & OS Security

- Linux security fundamentals
- Windows security & hardening
- User & permission management

4 · Web Application Security

- The OWASP Top 10, hands-on
- SQL injection & XSS in a lab environment
- Secure coding practices that prevent both

5 · Ethical Hacking & Penetration Testing

- Reconnaissance & vulnerability scanning
- Exploitation basics with Metasploit
- Writing a professional pentest report

6 · Cryptography

- Symmetric vs. asymmetric encryption
- Hashing & digital signatures
- How SSL/TLS actually secures a connection

7 · Security Operations

- SIEM fundamentals & log analysis
- Incident response, step by step
- Working with threat intelligence feeds

8 · Governance, Risk & Compliance

- ISO 27001 & common frameworks
- GDPR & data-protection basics
- Running a basic risk assessment

Tools and Softwares You Can Work With

Wi Wireshark | Nm Nmap | Me Metasploit | BS Burp Suite | KL Kali Linux | ST SIEM Tools

Capstone Projects

Six builds that turn coursework into a portfolio — 1 of 2

1 · Vulnerability Assessment Report

Scan a test environment and produce a professional VAPT report a client could actually receive.

SOFTWARE USED

Nm Nmap | NO Nessus/OpenVAS

- Run a structured vulnerability scan
- Prioritize findings by severity
- Write remediation recommendations

2 · Secure Login System with 2FA

Build a web login flow implementing proper hashing, salting, and two-factor authentication.

SOFTWARE USED

PN Python/Node.js | Bc bcrypt | TOTP TOTP

- Implement salted password hashing correctly
- Add TOTP-based 2FA
- Defend against common auth attacks

3 · Network Intrusion Detection System

Build a basic IDS that flags suspicious traffic using packet analysis and alerting rules.

SOFTWARE USED

Py Python | WS Wireshark/Scapy

- Define detection rules for known attack patterns
- Parse live/captured traffic
- Trigger alerts on rule matches

Capstone Projects

Six builds that turn coursework into a portfolio — 2 of 2

4 · Phishing Detection Tool

Classify emails or URLs as phishing or legitimate using rule-based and ML checks.

SOFTWARE USED

Py Python | Sc Scikit-learn

- Extract features from URLs/emails
- Train a simple classifier
- Explain why a message was flagged

5 · Firewall & VPN Simulation Lab

Configure and document a segmented network with firewall rules and VPN access.

SOFTWARE USED

Pf pfSense/iptables | OV OpenVPN

- Segment a network into security zones
- Write & test firewall rules
- Set up secure remote VPN access

6 · Incident Response Playbook & Tabletop Exercise

Design an incident-response plan and simulate a breach scenario end to end.

SOFTWARE USED

Do Documentation | SE simulated environment

- Define roles & escalation paths
- Run a simulated breach walkthrough
- Produce a post-incident report

A Day in the Role

What a Security Analyst's Day Actually Looks Like

- Triage alerts from SIEM & monitoring tools
- Investigate suspicious activity end-to-end
- Run vulnerability scans on live systems
- Patch or recommend fixes for findings
- Document incidents for compliance
- Stay current on emerging threats & CVEs

The throughline: every capstone in this brochure is a smaller version of one of these responsibilities — so the portfolio you leave with maps directly to the job you're training for.

Career Outlook

Where a cyber security skill-set actually leads

Security hiring has grown well beyond "hacker" roles — organizations need analysts, engineers, and auditors across the full defense stack, and demand consistently outpaces supply.

Role	What They Do	Salary Range (Fresher / Experienced)
SOC Analyst	Monitors & responds to security alerts in real time	₹4–7 LPA / ₹9–16 LPA
Penetration Tester	Finds exploitable vulnerabilities before attackers do	₹5–9 LPA / ₹12–22 LPA
Security Engineer	Builds & hardens secure systems & infrastructure	₹6–10 LPA / ₹14–24 LPA
Incident Responder	Investigates & contains active security incidents	₹5–9 LPA / ₹12–20 LPA
Security Compliance Analyst	Manages audits, risk assessments & frameworks	₹4–7 LPA / ₹10–18 LPA
Cloud Security Engineer	Secures cloud infrastructure & deployments	₹7–11 LPA / ₹15–26 LPA

Indicative ranges from general India market trends — validate against current job-board data before publishing.

Companies Actively Hiring in This Space

De Deloitte · EY EY · Wi Wipro · Ci Cisco · PA Palo Alto Networks · IBM IBM

Representative employers in this space — not confirmed UrbanScholar hiring partners.

Program Tracks

Two tracks, same curriculum depth — the difference is placement intensity

KICKSTART

- 14+ hrs live cohort + recorded lectures
- 2 guided projects
- 6 months LMS access
- QR-verified completion certificate
- Mentor support — SLA ≤ 48 hrs
- Resume building workshop
- Mock aptitude test
- Pre-placement orientation session

CAREER

- 20+ hrs live cohort + recorded lectures
- 2 projects + capstone (Minor + Major)
- 6 months LMS access, extendable till placed
- QR-verified + Industry-Readiness certification
- Priority mentor support — SLA ≤ 24 hrs
- Resume + LinkedIn profile building
- 1-on-1 mock interviews with feedback
- Active placement & referral assistance

Common to Both Tracks

All 8 Curriculum Modules

All 6 Capstone Projects

Mentor-Reviewed Checkpoints

Training + Internship Certificate

Where UrbanScholar Cyber Security Learners Can Head

Product & Tech Companies

Banking & Fintech

IT Services & Consulting

Security Product Vendors

Freelance / Bug Bounty

Placement Journey

How career support is woven through the program, not tacked on at the end

1

Build Foundation

Resume & LinkedIn built around real project outcomes, not generic templates.

2

Sharpen Aptitude

Structured aptitude & reasoning practice aligned to actual hiring-test formats.

3

Practice Interviews

Mock interviews with direct, specific feedback — not just a pass/fail score.

4

Get Placement Ready

Soft-skill coaching and, on the Career track, active referral support.

Why this order matters: most programs bolt placement prep onto the last week. Here it runs in parallel with the technical modules, so by the time your capstones are done, your resume and interview readiness are already in place — not started from scratch.

Quick Questions

Do I need prior background to start?

Some familiarity helps, but the early modules — starting with Cyber Security Fundamentals — rebuild the fundamentals from the ground up.

What happens if I fall behind a session?

Every live session is recorded, and mentor SLA windows exist specifically to help you catch up between checkpoints.

Can I switch tracks mid-program?

Yes — Kickstart learners can upgrade to Career at any point by paying the difference, carrying forward completed modules.

Is the certificate recognized by employers?

It's a QR-verified training + internship certificate — employers can verify authenticity directly, not just take it on faith.

UrbanScholar

Industry-Trained. Project-Proven. Career-Ready.

Get In Touch

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PROGRAM

Cyber Security — Kickstart & Career Tracks