

COURSE PROSPECTUS

Name of the Group: IT Group

Name of the Course: Certificate course on Cyber Security & Ethical Hacking - (Offline)

Course Code: CSEH 100

Starting Date: ~~12th October 2022~~ 26th October 2022

Duration: 12 Weeks

Course Coordinator: Sini S Nair, 9447335996

No. of Seats: 20 Seats

Preamble:

The course has been designed to provide a strong foundation to the participants on cyber security, tools and techniques. The course aims at providing participants with the concept of computer security, cryptography, secure protocols, security analysis and pen testing techniques. The course will help them to gauge their understanding in essential techniques in protecting information systems, analyzing and monitoring potential threats and attacks.

Objective of the Course:

The Course is 12 weeks program aimed at molding candidates with Skilled Cyber Security and Ethical Hacking knowledge to maintain the Security of Systems and Networks in today's scenario.

Outcome of the Course:

This skill-oriented course provides candidates with information and knowledge required to protect & recover the computer systems & networks from various security threats.

Expected Job Roles:

- Network Administrator
- System Administrator
- Security Analyst
- Security Engineer
- Pen Tester

Course Structure:

Sl. No.	Topics	Duration
1	Virtualization & Networking Basics	1
2	Linux Fundamentals & Shell Scripting	1
3	Overview of Windows & its Security features	1
4	Overview of Information Security, Mobile devices & its Security features	1
5	Introduction to Ethical Hacking, Threats, Vulnerabilities, Attacks & Ethical hacking Phases	1
6	Malware Analysis	1
7	Host/Device Security , Network Security	1.5
8	Cryptography, Webserver Configuring, Securing and validating Services	1
9	Penetration Testing methodologies	1
10	Wi-Fi Security, Cloud security, Security Auditing Formalities	1
11	Project	1.5 week
	Total	12 weeks

Other Contents

I. Course Fees:

General Candidates: Course fee is Rs. 30,000/-

SC/ST Candidates :Limited seats are reserved for SC/ST candidates as per Govt. of India norms on merit basis, and tuition fee is waived for these candidates.

However they are required to remit an amount of **Rs. 6,000/- as Advance caution/security deposit**. This amount will be considered as caution/security deposit and will be refunded after successful completion of the course. If the student fails to complete the course successfully, this amount along with any other caution/security deposits by the student will be forfeited.

Module wise Course Fee - Not Applicable

II. Registration Fee: An amount of Rs.1000/- (including all taxes as applicable)(nonrefundable) should be paid at the time of registering for the course.

This fee shall be considered as part of course fee, if the student joins the course. If a student register and pay for more than one course and join for any one course, all such amount will be adjusted against the course fee payable.

If the student does not join for the registered course / any of the registered courses, fee paid shall be forfeited.

For SC/ST candidates admitted under reservation quota, the registration fee is Rs.500/- and will be considered as part of caution/security deposit and will be

refunded after successful completion of the course. If the candidate does not join or fails to complete the course the amount will be forfeited

For all other candidates the registration fee shall be Rs. 1000/-

However above the registration fee shall be refunded on few special cases as given below

- Course postponed and new date is not convenient for the student
- Course cancelled in advance, well before the admission date

III. Course Fee Installment Structure: Not applicable for this course

- **Eligibility** : Any Graduates and 3 Year Diploma holders with Computer Science up to 10+2 level having Operating System and Networking Knowledge.

** Certificate will be issued only after successful completion of the mentioned Eligibility Criteria.*

IV. Number of Seats : 20

V. Selection of candidates : Selection of candidates who have the requisite qualifying degree will be based on the percentage of marks in their qualifying degree subject to eligibility and availability of seats. Selection of candidates who have completed the course but expecting the results shall be based on the aggregate percentage of marks mentioned in their final mark list and on the availability of seats.

VI. Test/Interview (if applicable) :Not Applicable

VII. Counseling/Admission: Starting date of the course – ~~12.10.2022~~ 26.10.2022

VIII. Important Dates (if applicable) :

Starting date:	26.10.2022 12.10.2022
Last date to submit application form:	20.10.2022 06.10.2022
Selection intimation in website:	21.10.2022 07.10.2022
Counseling/Admission	26.10.2022 12.10.2022
Commencement of class work:	26.10.2022 12.10.2022
Payment of Fee	On or before 25.10.2022 12.10.2022

IX. Course Timings: 9:40 Hrs to 17:00 Hrs (13:00 Hrs to 14:00 Hrs Lunch break)(Excl Saturdays, Sundays and National Holidays)

X. Placement : Support shall be provided

XI. Lab Facilities: The IT Lab is equipped with Intel Xeon Dual Processor based servers from HP, IBM, DELL, HCL, managed gigabit switches and more than 100 networked PCs with internet facility. SaaS, PaaS and IaaS open source cloud servers. A variety of software is available which include various flavors of Windows and Linux Operating Systems like Windows, RedHat Enterprise Linux/CentOS 6/7, RT Linux, OpenStack, CloudStack, OpenVAS/Nessus and various commercial and open source development tools, database and cloud servers.

XII. Course Contents : Virtualization, Networking Basics, Linux Basics, Shell Scripting, Overview of Windows & its Security features, Overview of Mobile devices & its Security features, Overview of Information Security Introduction to Ethical Hacking, Threats, Vulnerabilities & attacks, Ethical hacking Phases, Malwares, hacking techniques, Host/Device Security, Network Security, Cryptography, Configuring, Securing and validating Server Services, Penetration Testing methodologies, Wi-Fi Security, Cloud security and Project

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