



**LONDON SCHOOL
OF EMERGING TECHNOLOGY**

ETHICAL HACKING

COURSE ID

EH

DEPARTMENT

SOFTWARE
ENGINEERING

CAMPUS

1 CORNHILL

LEVEL

CERTIFICATE

METHOD

LECTURE + PROJECT

DURATION

3 MONTHS

World is moving towards Ethical hacking rapidly than you think. Ethical hacking is one of the most lucrative career options of 2022. As per the latest survey, there are more than 3.5 million job opportunities for an ethical hacker, and every 14 seconds there is a cyber attack. This means that there is a great demand for Certified Ethical Hackers. Prepare yourself for the next trend in job as Ethical hacker.

**APPLY
NOW!**

Apply now to become a professional **Ethical hacker**



Options	Topic	Add-On	Duration
Option 1	Ethical Hacking		3 Months
Option 2	Ethical Hacking	 Project	5 Months
Option 3	Ethical Hacking	 Project &	12 Months
		 Industrial Training and Paid Internship Program	

Note: Our Industrial Training and Internship program includes a guaranteed 6 months paid internship (from 10 hours to 40 hours per week) with a technology company. Due to visa restrictions, some international students may not be able to participate in this program.

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CAREER PERSPECTIVE

Amid the ongoing wave of cybercrime, it is easy to see why the demand for cybersecurity professionals and ethical hackers is so high. As per Industry watchdog Cybersecurity Ventures, there will be 3.5 million unfilled cybersecurity roles globally by 2021. It is an ever-evolving field that offers immense job satisfaction, insanely high salary, and global exposure. The average salary of ethical hackers hovers between £50,000 and £65,000.

Common job titles within the field of ethical hacking include:

- Penetration Tester
- Vulnerability Assessor
- Security Analyst
- Information Security Analyst
- Certified Ethical Hacker (CEH)
- Security Consultant
- Ethical Hacker
- Security Engineer/Architect
- Information Security Manager

The skills required for such jobs will vary greatly depending on the position and the organization.

TECHNOLOGIES COVERED

Linux: A Linux system is a modular operating system like Unix, deriving a lot of its foundation design from principles established in Unix during the late 1970s.

Windump: It is the Windows version of tcpdump, the command prompt network analyzer for Unix. It is completely compatible with tcpdump and further can be used to diagnose and save disk network traffic in accordance with different complex rules.

Tcpdump: It is a data-network analyzer for a computer program that runs under a command line interface.



Wireshark: Wireshark is a free and open-source analyzer. It is used for analysis, troubleshooting, communications protocol development, software, and education.

Vagrant: It is an open-source software product for maintaining and building portable virtual software development environments; like for KVM, VirtualBox, Hyper-V, VMware, Docker containers, and AWS.

Ansible: It is an open-source software configuration management, provisioning, and application-deployment tool used for enabling infrastructure as code.

JOB GUARANTEE

Job Guarantee is an add-on program you can register with this course. You will need to clear an assessment interview to get enrolled. Once successful in the assessment, you will be offered Job Guarantee with this certificate course. There is a fee to join this program as it takes you to rigorous career development, interview preparation, mock interviews, etc. The fee for joining the Job Guarantee add-on program is £500. This is a 12 months program which starts at the end of your certificate course. As part of this program, we represent you to the prospective employers and train on career development elements...

You need to abide by the rules of this program which you can find on the Job Guarantee page. If we can't find you a relevant job or you don't find it by yourself in the similar industry in any part of the world within these 12 months, we will refund you the course fee + Job Guarantee program fee. The refund process will start after the end of the 12 months and every month we will pay £500 until the entire fee is paid back. But if you find a relevant job during this time then the remaining payments will be stopped. This program is only applicable to home students (UK permanent residents / citizens).

INDUSTRIAL TRAINING

LSET offers an optional add-on industry training program to its students. Students wishing to enrol in this program require to pay fee of £2000 to receive training from industry experts at IT companies in the US or UK. This is a month-long program which takes place at the host company's location. Interested students need to go through an assessment and host company's interview process to be accepted in the program.



COMPLEMENTARY WORKSHOPS



GIT MANAGEMENT



AGILE PROJECT
MANAGEMENT



TEAM BUILDING



PERSONALITY
DEVELOPMENT



INTERVIEW
PREPARATION

COURSE INFORMATION



SEPTEMBER
END: DECEMBER



JANUARY
END: APRIL



MAY
END: AUGUST

ENTRY CRITERIA

- ✓ Basic understanding of computer security
- ✓ Basic Understanding of English
- ✓ Basic Proficiency with Computers
- ✓ Ability to work in Group

COURSE HIGHLIGHTS

- ✓ Hands-on practice
- ✓ Learn from experts
- ✓ Interactive learning
- ✓ Access on mobile
- ✓ Live project designing
- ✓ Certificate of completion

EVALUATION CRITERIA

- ✓ 18 Coding exercises
- ✓ 5 Assignments
- ✓ 5 Quizzes
- ✓ Capstone Project
- ✓ Group activities
- ✓ Presentations



LEARNING OBJECTIVES

- ✓ Practical ethical hacking and security videos.
- ✓ Start from scratch to a high level.
- ✓ Learn to use hacking tools.
- ✓ Secure systems from the attacks.
- ✓ Learn about the Linux basics.
- ✓ Control the connections of Wi-Fi
- ✓ Secure networks from attacks.
- ✓ Create undetectable backdoors.
- ✓ Discover about Stored XSS vulnerabilities.
- ✓ Read and Write files to the server using SQL.
- ✓ Gather sensitive info about websites
- ✓ Capture the keystrokes on a compromised system.
- ✓ Discover the subdomains associated with a website.
- ✓ Discover and fix code execution vulnerabilities.
- ✓ Secure systems from the attacks.
- ✓ Learn about the Linux basics.



WEEKDAYS BATCH
5:30 pm – 7:30 pm
(Wed, Thu, Fri)



WEEKENDS BATCH
9:00 am to 12:00 am
(Sat, Sun)



INTERVIEW PREPARATION
Wednesday
(4 Workshops)



HANDS-ON WORKSHOPS
Thursday (2 Workshops)



PERSONALITY DEVELOPMENT
Friday (1 Workshop)



HANDS-ON WORKSHOPS



**INTERVIEW
PREPARATION**



**CV
PREPARATION**



**PERSONALITY
DEVELOPMENT**

Join the Ethical hacking Certificate course to learn the current state-of-the-art techniques of web and mobile Ethical hacking. LSET teaches this course in a project-based environment that lets you explore real-world applications.

COURSE CONTENT

Browse the LSET interactive and practical curriculum

INTRODUCTION

- ▶ Information Security Overview
- ▶ Information Security Threats and Attack Vectors
- ▶ Penetration Testing Concepts
- ▶ Hacking Concepts
- ▶ Ethical Hacking Concepts
- ▶ Information Security Controls
- ▶ Information Security Laws and Standards

FOOTPRINTING AND RECONNAISSANCE

- ▶ Footprinting Concepts
- ▶ Footprinting through Search Engines
- ▶ Footprinting through Web Services
- ▶ Footprinting through Social Networking Sites
- ▶ Website Footprinting
- ▶ Email Footprinting
- ▶ Competitive Intelligence
- ▶ Whois Footprinting



- ▶ DNS Footprinting
- ▶ Network Footprinting
- ▶ Footprinting through Social Engineering
- ▶ Footprinting Tools
- ▶ Countermeasures

SCANNING NETWORKS

- ▶ Network Scanning Concepts
- ▶ Scanning Tools
- ▶ Scanning Techniques
- ▶ Scanning Beyond IDS and Firewall
- ▶ Banner Grabbing
- ▶ Draw Network Diagrams
- ▶ Scanning Pen Testing

ENUMERATION

- ▶ Enumeration Concepts
- ▶ NetBIOS Enumeration
- ▶ SNMP Enumeration
- ▶ LDAP Enumeration
- ▶ NTP Enumeration
- ▶ SMTP Enumeration and DNS Enumeration
- ▶ Other Enumeration Techniques
- ▶ Enumeration Countermeasures
- ▶ Enumeration Pen Testing





VULNERABILITY ANALYSIS

- ▶ Vulnerability Assessment Concepts
- ▶ Vulnerability Assessment Solutions
- ▶ Vulnerability Scoring Systems
- ▶ Vulnerability Assessment Tools
- ▶ Vulnerability Assessment Reports

SYSTEM HACKING

- 
- ▶ System Hacking Concepts
 - ▶ Cracking Passwords
 - ▶ Escalating Privileges
 - ▶ Executing Applications
 - ▶ Hiding Files
 - ▶ Covering Tracks
 - ▶ Penetration Testing

MALWARE THREATS

- 
- ▶ Malware Concepts
 - ▶ Trojan Concepts
 - ▶ Virus and Worm Concepts
 - ▶ Malware Analysis
 - ▶ Countermeasures
 - ▶ Anti-Malware Software
 - ▶ Malware Penetration Testing

SNIFFING

- ▶ Sniffing Concepts
- ▶ MAC Attacks
- ▶ DHCP Attacks
- ▶ ARP Poisoning
- ▶ Spoofing Attacks
- ▶ DNS Poisoning
- ▶ Sniffing Tools
- ▶ Countermeasures
- ▶ Sniffing Detection Techniques
- ▶ Sniffing Pen Testing

SOCIAL ENGINEERING

- ▶ Social Engineering Concepts
- ▶ Social Engineering Techniques
- ▶ Impersonation on Social Networking Sites
- ▶ Identity Theft
- ▶ Countermeasures
- ▶ Social Engineering Penetration Testing
- ▶ Insider Threats

DENIAL-OF-SERVICE

- ▶ DoS/DDoS Concepts
- ▶ DoS/DDoS Attack Techniques
- ▶ Botnets
- ▶ DDoS Case Study
- ▶ DoS/DDoS Attack Tools
- ▶ Countermeasures
- ▶ DoS/DDoS Protection Tools
- ▶ DoS/DDoS Attack Penetration Testing



SESSION HIJACKING

- ▶ Session Hijacking Concepts
- ▶ Application Level Session Hijacking
- ▶ Network Level Session Hijacking
- ▶ Session Hijacking Tools
- ▶ Countermeasures
- ▶ Penetration Testing

EVADING IDS, FIREWALLS, AND HONEYPOTS

- ▶ IDS, Firewall and Honeypot Concepts
- ▶ IDS, Firewall and Honeypot Solutions
- ▶ Evading IDS
- ▶ Evading Firewalls
- ▶ IDS/Firewall Evading Tools
- ▶ Detecting Honeypots
- ▶ IDS/Firewall Evasion Countermeasures
- ▶ Penetration Testing

HACKING WEB SERVERS

- ▶ Web Server Concepts
- ▶ Web Server Attacks
- ▶ Web Server Attack Methodology
- ▶ Web Server Attack Tools
- ▶ Countermeasures
- ▶ Patch Management
- ▶ Web Server Security Tools
- ▶ Web Server Pen Testing



HACKING WEB APPLICATIONS

- ▶ Web App Concepts
- ▶ Web App Threats
- ▶ Hacking Methodology
- ▶ Web Application Hacking Tools
- ▶ Countermeasures
- ▶ Web App Security Testing Tools
- ▶ Web App Pen Testing

SQL INJECTION

- ▶ SQL Injection Concepts
- ▶ Types of SQL Injection
- ▶ SQL Injection Methodology
- ▶ SQL Injection Tools
- ▶ Evasion Techniques
- ▶ Countermeasures

HACKING WIRELESS NETWORKS

- ▶ Wireless Concepts
- ▶ Wireless Encryption
- ▶ Wireless Threats
- ▶ Wireless Hacking Methodology
- ▶ Wireless Hacking Tools
- ▶ Bluetooth Hacking
- ▶ Countermeasures
- ▶ Wireless Security Tools
- ▶ Wi-Fi Pen Testing



HACKING MOBILE PLATFORMS

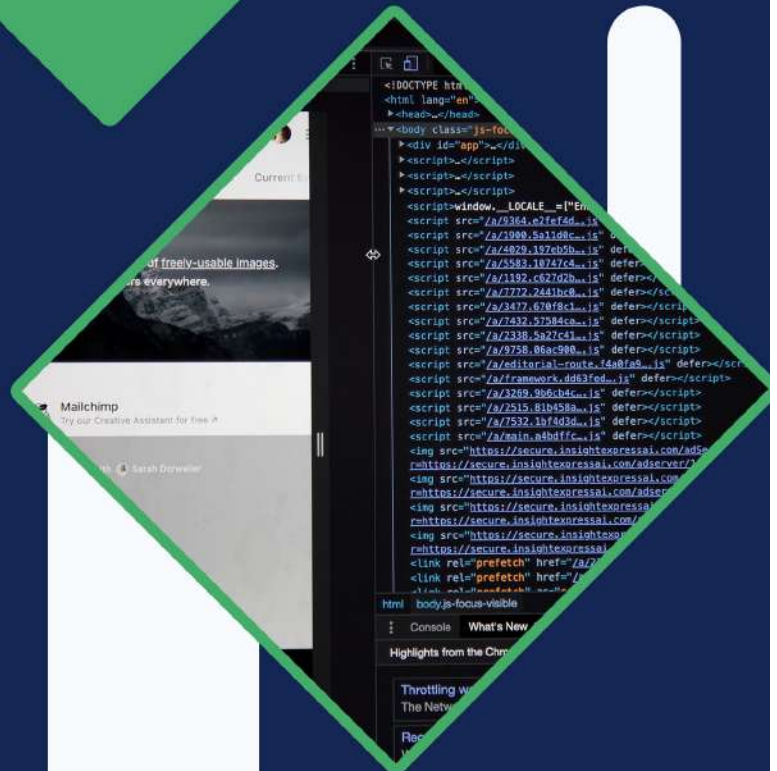
- ▶ Mobile Platform Attack Vectors
- ▶ Hacking Android OS
- ▶ Hacking iOS
- ▶ Mobile Spyware
- ▶ Mobile Device Management
- ▶ Mobile Security Guidelines and Tools
- ▶ Mobile Pen Testing

IOT HACKING

- ▶ IoT Concepts
- ▶ IoT Attacks
- ▶ IoT Hacking Methodology
- ▶ IoT Hacking Tools
- ▶ Countermeasures
- ▶ IoT Pen Testing

CLOUD COMPUTING

- ▶ Cloud Computing Concepts
- ▶ Cloud Computing Threats
- ▶ Cloud Computing Attacks
- ▶ Cloud Security
- ▶ Cloud Security Tools
- ▶ Cloud Penetration Testing



CRYPTOGRAPHY

- ▶ Cryptography Concepts
- ▶ Encryption Algorithms
- ▶ Cryptography Tools
- ▶ Public Key Infrastructure (PKI)
- ▶ Email Encryption
- ▶ Disk Encryption
- ▶ Cryptanalysis
- ▶ Countermeasures

*Modules of our curriculum are subject to change. We update our curriculum based on the new releases of the libraries, frameworks, Software, etc. Students will be informed about the final curriculum in the course induction class.

```
viernes 9
$ ./lampport -g
[+] Calculating Lampport private key
[+] Obtaining random data
[+] Calculating the public key
-----BEGIN LAMPOR PRIVATE KEY-----
Dnuw/2KD0lfxuIggdI1j9r fhkJauc0
USQhcc@cn++tFEs8KVRNlgCYHh7T5Ad1V
W46wFNRV0hCjZzV6HNo010In2ldsceQkQ0m
RHdtcU8V1UuH3/9rPVya/Ljltz9ec2Xb\ARA9
K8HMrUy3hVgJyns5sy7ss2mevH35GF19XTZwHJ4
s8RqgaEhbVdCPRPQQFMMV8I1GB5gVbhx0bgTDdFY
ZuFAxog3tD1SEF8g135RzpeARH6D8Gr53oEqPfog5
NI8Nv3EYj7XG6LjVp\CE+vpC38fhkaL9b81gXV8W0R1
Rh00lRH2vEjLjPthq5hg7Y7v+h+lw+86R2Mh90DLBf48kL
Hkqz5406X0vfruzhZT8gTZUjfwG1w+NeR2RE7Cw8KFFV8G88
0ub2v96CZ4r8ANZ0v62apf0Z9vrtipe+z22u7u713+4LXKJ20M
```



ASSESSMENT CRITERIA

To earn the certificate, students must clear all the assessments, quizzes, and project work. At a minimum, students are required to satisfy the pass criteria of the course. Students who score 75% or more will be awarded Merit Grade, while students with 85% or more will be awarded, Distinction Grade.

Following are the detailed criteria for each level

Pass Grade Criteria

Score a minimum of 50% aggregate and demonstrate the following;

- Proficiency in the technical skills and techniques
- Must have a minimum attendance of 90% in the classes unless proper medical proof is provided
- Submit all the projects and assignments before the last submission date
- Collaborate with peers in group projects



Merit Grade Criteria

Score a minimum of 75% aggregate and demonstrate the following;

- Excellent technical skills and techniques
- Discover and apply strategies to find the perfect solutions
- Select/design and use appropriate methods/techniques
- Present and communicate appropriate findings



Distinction Grade Criteria

Score a minimum 85% aggregate and demonstrate the following;

- Mastery of technical skills and techniques
- Use critical thinking for self-evaluation and justify valid conclusions
- Take the responsibility the manage and organise activities and teams
- Showcase convergent/lateral/creative thinking.



ASSESSMENT METHODS

LSET follows strict uniform standards in assessing students' performance during the certificate course. This ensures that the LSET certificate holders demonstrate high ethics and deep technical knowledge. Internal and external examiners will assess the students, while the platform will automatically evaluate the quizzes. Instructors are internal examiners who only assess students' soft skills. At the same time, the external examiners are responsible for assessing students' assessments and project work.

Internal Evaluation

Instructors only evaluate students on the following, contributing to 20% of the total score. The total points that can be earned are 100

- ▬ **Punctuality [10 points]:** Students are expected to show punctuality with their attendance, presence, and project/assignment submission time.
- ▬ **Dedication [10 points]:** LSET expects the students to give attention and show dedication throughout the curriculum.
- ▬ **Time Management [10 points]:** Students should show good time management by completing and submitting their assignments on time. Time management is crucial for students to prepare for the real work environment.
- ▬ **Attendance [10 points]:** Minimum of 90% attendance is required unless a proper reason with evidence is provided. Attendance in LSET classes is important to ensure that the student has thoroughly learned the technical and non-technical concepts taught in the curriculum.
- ▬ **Working with Others (Teamwork) [10 points]:** LSET teaches concepts in a collaborative environment where we expect each student to show teamwork and collaboration skills.



- **Problem-Solving Skills [10 points]:** Students must demonstrate proper problem-solving skills. Students need to use the knowledge and skills gained in the course to solve real-world problems.
- **Class Participation [10 points]:** Engagement and participation are crucial to ensure the interactive learning experience.
- **Communication Skills [10 points]:** Students should display formal communication skills to communicate with their teammates. This prepares them for their future workplace.
- **Presentation Skills [10 points]:** Students should display formal communication skills to communicate with their teammates. This prepares them for their future workplace.
- **Ability to ask Questions [10 points]:** Students should ask relevant questions in the classes to encourage healthy discussion on technical topics.



External Evaluation

External examiners evaluate students on the following, contributing to 70% of the total score. The total points that can be earned are 250.

- **5 Assessments [10 points per assessment]:** These assessments are done entirely based on how the student has performed in understanding the lessons and concepts taught by the instructor.
- **1 Capstone Project [200 points]:** The capstone project is conducted at the end of the certificate course to practice all the practical concepts. Students must satisfy the criteria mentioned in the project requirement document to earn full points.



Auto Evaluation

Auto evaluation will be conducted via the platform, contributing 10% of the total score. The total points that can be earned are 50

- 5 Quizzes [10 points per quiz]: Quizzes in a class ensure maximum participation and ensure that the students have learned the taught concepts with attention. Students will be presented with multiple-choice questions.

Having Doubts?

Contact LSET Counsellor

Quizzes in a class ensure maximum participation and ensure that the students have learned the taught concepts with attention. Students will be presented with multiple-choice questions.

Best Career Paths

Government/ Private Firms

With increasing cyber threats, government and private organizations are in search of Ethical Hackers who can help organizations protect themselves from threats or attacks in the cyber space. One can also work as a freelancer and work for multiple organizations.

Network Security Engineers

A Network Security Engineer is responsible for implementation, maintenance, and integration of corporate WAN, LAN and server architecture. They also look after implementation and administration of network security hardware and software and enforcing the network security policy.

Network Security Administrator

In addition to writing network security policies, the Security Administrator does frequent audits and ensures that security policies are up-to-date and are being followed. In addition, he/she takes corrective steps for breaches.



Security Consultant

Security consultants assess existing IT systems and infrastructures for weaknesses and then develop and implement IT security solutions to prevent unauthorized access, data modification or data loss.

Penetration Tester

Penetration testers try to break into or find possible exploits in different computer systems and software. They generally run a number of tests, based around network penetration.



Top Companies Hiring Front End Developers



The Course Provides Shared Expertise by

 LSET TRAINERS

 INDUSTRY EXPERTS

 TOP EMPLOYERS

Skills You will Gain

- ⇒ Networking Skill
- ⇒ Computer Skills
- ⇒ Linux Skills
- ⇒ Programming Skills
- ⇒ SQL Skills
- ⇒ Hardware Knowledge
- ⇒ Knowledge in Reverse Engineering
- ⇒ Cryptography
- ⇒ Database Skills
- ⇒ Problem-solving Skills
- ⇒ Cloud Computing
- ⇒ Scanning Concepts

Complete Learning Experience

This course provides a hands-on, guided learning experience to help you learn the fundamentals practically.

- ⇒ We constantly update the curriculum to include the latest releases and features.
- ⇒ We focus on teaching the industry's best practices and standards.

- ⇒ We let you explore the topics through guided hands-on sessions.
- ⇒ We provide industry professional mentor support to every student.
- ⇒ We give you an opportunity to work on real world examples.
- ⇒ Work with hands-on projects and assignments.
- ⇒ We help you build a technical portfolio that you can present to prospective employers.

Reasons to Choose LSET

- ⇒ Interactive live sessions by industry experts.
- ⇒ Practical classes with project-based learning with hands-on activities.
- ⇒ International learning platform to promote collaboration and teamwork.
- ⇒ Most up-to-date course curriculum based on current industry demand.
- ⇒ Gain access to various e-learning resources.
- ⇒ One-to-one attention to ensure maximum participation in the classes.
- ⇒ Lifetime career guidance to get the students employed in good companies.
- ⇒ Free lifetime membership to the LSET Alumni Club

What Will Be Your Responsibilities?

- ⇒ Work creatively in a problem-solving environment.
- ⇒ Ask questions and participate in class discussions.
- ⇒ Work on assignments and quizzes promptly.
- ⇒ Read additional resources on the course topics and ask questions in class.

- ⇒ Actively participate in team projects and presentations.
- ⇒ Work with the career development department to prepare for interviews
- ⇒ Respond promptly to the instructors, student service officers, career development officers, etc.
- ⇒ And most importantly, have fun while learning at LSET.

How Does Project-Based Learning Work?

LSET project-based learning model allows students to work on real-world applications and apply their knowledge and skills gained in the course to build high-performing industry-grade applications. As part of this course, students learn agile project management concepts, tools, and techniques to work on the assigned project collaboratively. Each student completes project work individually but is encouraged to enhance their solution by collaborating with their teammates.

Following are the steps involved in the LSET's project-based learning;

Step 1: Project Idea Discussion

In this step, students get introduced to the problem and develop a strategy to build the solution.



Step 2: Build Product Backlog

This step requires students to enhance the existing starter product backlog available in the project. This helps students to think about real-life business requirements and formulate them in good user stories.



Step 3: Design Releases and Sprints

In this step, students define software releases and plan sprints for each release. Students must go through sprint planning individually and learn about story points and velocity.



Step 4: Unit and Integration Tests

In this step, students learn to write unit tests to ensure every application part works fine.



Step 5: Use CICD to Deploy

In this step, students learn to use CICD (Continuous Integration Continuous Delivery) pipeline to build their application as a docker image and deploy it to Kubernetes.



Capstone Project

LSET gives you an opportunity to work on the real world project which will greatly help you to build your technical portfolio

Project Topic: Online Banking

London has been a leading international financial centre since the 19th century. In recent years, London has seen many FinTech start-ups and significant innovations in the banking sector. This project aims to introduce students to the financial industry and technologies used to handle billions of daily transactions. As part of this project, students will learn the current technological advances and build up their knowledge to start a simple banking application. This application uses agile project management practices to build basic functionality. Students will be presented with user stories to create the initial project backlog. Students need to enhance this backlog by adding more relevant user stories and working on them.

LSET emphasises project-based learning as it allows the students to master the course content by going through near real-world work experience. LSET projects are carefully designed to teach the industry-required skills and mindset. It motivates the students on various essential aspects like learning to work in teams, improving communication with peers, taking the initiative to look for innovative solutions, enhancing problem-solving skills, understanding the end user requirements to build user-specific products, etc.

Capstone Projects build students' confidence in handling projects and applying their newly learned skills to solve real-world problems. This allows the students to reflect upon their learning and find the opportunity to get the most out of the course.

Learning Outcome

- » Students will learn to work in an agile environment
- » Students will learn the agile project management terms which are used in the industry like product backlog, user stories, story point, epics, etc.
- » Students will learn to use Git repository and learn the concepts like commit, pull, push, branch, etc.
- » Students will learn to communicate in a team environment and express their ideas in an effective manner

Execution Process

This project will be carried out in phases. Each phase is designed to teach students a specific aspect on the subject and/or development paradigm. Following are the phases students will follow to complete this project.

Phase 1: Project Introduction Self Study [6 days]

In the first phase, students will learn about the financial industry and go through the project introduction documentation to build up the subject knowledge. This is a self-learning stage however instructor hours are available if required.

Phase 2: Project Build-up and Environment Setup [2 days]

In this phase, students are required to follow the project guide to setup the development environment. Project document guides students on finding and connecting to the LSET Git repository and install the required libraries or tools.

Phase 3: Product Backlog and Sprint Planning [2 days]

In this phase, students will use the existing product backlog and enhance it as per their project scope. Students can seek help from the project coordinator and/or the instructor. Project coordinator will help students to do sprint planning and assign story points to the stories. This process is meant to give students real world work environment experience. Students can consider this as a mock exercise on using the agile project management practices.

Step 3: Product Backlog and Sprint Planning [2 days]

In this step, students will use the existing product backlog and enhance it per their project scope. Students can seek help from the project coordinator and the instructor. The project coordinator will help students do sprint planning and assign story points to the stories. This process is meant to give students real-world work environment experience. Students can consider this a mock exercise on agile project management practices.

Step 4: User Stories Execution and Development [12 days]

Students will work on the user stories identified in the Step 3 process in this step. Students will write code and algorithms to complete the development objectives. The project coordinator will be available to help students to guide them on the development and answer any questions they may have. Students can also discuss this with the instructor.

Step 5: Testing, Deployment and Completion [5 days]

In this step, students will test and deploy the application to the cloud environment. Students will experience the deployment process in the cloud and learn the best practices. After the successful deployment, students will present their project to the instructor and the external project reviewer. Feedback will be given to the students. Students will have one week to work on the feedback and submit the final copy of the project, which will be sent to the external examiner for evaluation.

Project Presentation

LSET emphasises preparing students for the work environment by allowing them to learn the required soft skills. After completing the project, students must present their work to the instructor and an invited project reviewer panel. Please note that the assigned external examiner will not be part of this panel and hence will not know about the students. This ensures an unbiased assessment by the external examiner. This exercise aims to allow students to experience an environment they may face in their actual job. Also, it gives them a chance to get feedback from industry experts who can guide students on various parts of the project. This will help students to learn and fix anything they find necessary in their project. This ensures quality output and allows students to learn about industry requirements.

The instructor and the project reviewer panel will assess the students on the following;

Project Repository on GitHub [10 points]: The instructor will ensure that the students have uploaded the project repository to the LSET's GitHub account per the guidelines in the project requirement documentation. Full points will be awarded if the repository is appropriately set up per the instructions.

Presentation Skills [20 points]: Students must present their work in the given timeframe. Full points will be awarded if students cover everything needed to deliver their work in the given timeframe.

Communication Skills [20 points]: Students must present their work in a manner understandable by all the participants. More focus will be given to how students communicate, not the language. Full points will be awarded if students can share their work correctly.

Evaluation Criteria

LSET promotes a transparent and unbiased evaluation process. All the external examiners will follow a set process to grade students. No student's personal or identifying information will be shared with the external examiners, so they will not know about the person they are grading. They will only get the project files and grading guidelines to follow. This will ensure equal quality standards across the institute.

Following are some critical areas the LSET external examiners will be grading on.

Project Documentation [10 points]: Project documentation is filed correctly with the information which can be used to understand the project work. Students can use the supplied project documentation template to fill up the data. External examiner to confirm if all the information is filled up. Full points will be awarded if all the sections are covered.

Project Structure [10 points]: Students must follow the proper structure while developing their projects. This structure is being taught and covered in the project requirement documentation. External examiner to confirm if the project files are correctly structured. Full points will be awarded if the structure meets the given guideline.

Solves Basic Problem [50 points]: Students must ensure that they implement all the requirements in the project documentation. External examiner to confirm if the project solves the given problem. Full points will be awarded if the students include everything asked in the project requirement.

Innovation [20 points]: Students are encouraged to bring new ideas into their development. They can improve the design, use new design patterns, code with a better coding style, or add a feature. External examiner to confirm if the students have added more than the requirement to improve the design or solution. The new addition must include a new feature and should not be similar to the requirements given. Full points will be awarded if the external examiner finds an innovation or see students going beyond the asked requirements.



Best Practices [20 points]: Students must follow the best practices in their development. This will help them to become a quality resource for their prospective employer. External examiner to confirm if the supplied best practices are followed in the project. Full points will be awarded if the best practices are properly implemented.

Performance Consideration [20 points]: Students must consider performance while working on their projects. Performance is one of the critical industry requirements. External examiner to confirm if the student thought the performance improvements in the project. Full points will be awarded if the external examiner sees efforts taken to consider performance aspects in the development.

Security Structure [20 points]: Students need to consider the security aspect if applicable in the design and development. External examiner to confirm if the security consideration is appropriate in this project; if it is applicable, the examiner to verify if the student has considered the security elements in the project. Full points will be awarded if the external examiner sees efforts taken to assess the security aspect of the development.



Benefits of LSET Certificate

Earning the LSET Certificate means you have demonstrated hard-working capabilities and learnt the latest technologies by completing hands-on exercises and real-world projects.

Following are some of the traits employers can trust you have built up through your course;

- You know how to work in a team environment and communicate well.
- You know the tools which are necessary for your desired job.
- You know how to use the latest technologies to develop technologically advanced solutions.
- You have developed problem-solving skills to navigate complex problem scenarios and find the right solutions.
- You are now ready to take on the challenge and help your prospective employer to build the desired solutions.

What to expect after completing the course?

After earning your certificate from LSET, you can join the LSET's Alumni club. There are countless benefits associated with the Alumni Club membership. As a member of LSET Alumni, you can expect the following;

- LSET to hold your hand to find a successful career
- Advice you on choosing the right job based on your passion and goals
- Connect you with industry experts for career progression
- Provide you opportunities to participate in events to keep yourself updated
- Provide you with a chance to contribute to the game-changing open-source projects
- Provide you with a platform to shine by allowing you to speak at our events

TOOLS & TECHNOLOGIES YOU WILL LEARN FROM THIS COURSE



WINDUMP

TCPDUMP & LBPCAP

TCPDUMP



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LSET could provide the perfect headstart to start your career in Ethical Hacking.



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