



COURSE BROCHURE

Certified Reverse Engineer and Malware Analyst | CREMA

Introduction to the Course

Reverse Engineering refers to the process in which a software is decoded to learn about its details, architecture, vulnerabilities or to extract knowledge from the software.

Reverse engineering helps to find out the vulnerabilities in a software and analyse the same for virus attacks. These virus attacks are commonly in the form of malware. **Reverse engineering** helps us to analyse the depth of the problem and provide solutions based on that analysis.

Analysis of Malwares and their structure will help the student to apply for suitable job posts related to this field.

Certified Reverse Engineer and Malware Analyst | CREMA course by **IEM Labs** has become quite popular not only in Kolkata but also on other locations as well.

At the end of this course the student will be able to successfully do **Reverse Engineer** any software and extract its vulnerabilities and analyse all its problems accurately and analyse **Malwares** to get the details. The student shall be trained by field professionals who are currently working in this area and have been working in this sector for more than 10 years.

Why to choose IEM Labs?

What makes this course much more exciting is that we provide **hands - on training** procedure through projects and practical based classes throughout the entire curriculum of the course.

We at **IEM Labs** provide both **Online** (through platforms like "**Google Hangout Meet**", "**Go to Meeting**", "**Zoom**", etc) and **Offline** mode classes. The most beneficial point for a student to get trained by **IEM Labs** is "**One Year Lab Access**", i.e. every student from the date of admission will have access to our "**Online Virtual Lab**" for practising and getting all notes, pre-recorded videos and tools according to their course for one year absolutely free of cost.

About the Course

Course Type - Advanced

Eligibility Criteria: -

- Knowledge of malwares and development process.
- Knowledge on Cyber Security and Penetration Testing.
- Minimum System Configuration Required: -
 - Intel i5 processor
 - 8gb Ram
 - 1tb Hard disk

Batch Size - 5 students maximum.

Course Duration - 40 hours i.e. 2 classes every week.

Course Fee: -

- Online: 14000 INR + 18% GST
- Offline: 13000 INR + 18% GST

Training Location: -

- Offline - Kolkata
- Online - Any

Gradation System of IEM Labs

- E Excellent (90% - 100% Marks)
- A+ Very Good (80% - 89% Marks)
- A Good (70% - 79% Marks)
- B+ Average (60% - 69% Marks)
- B Fair (50% - 59% Marks)
- C Fail (Below 50% Marks)

Course Content

- Module - 1: Introduction to Malware Analysis
- Module - 2: Lab Setup
- Module - 3: Anatomy of Portable Executable (PE) File
- Module - 4: Basic Working Principle of a Malware
- Module - 5: Different types of Malwares Functionalities
- Module - 8: Crash Course in x86 disassembly
- Module - 7: Static Analysis Techniques
- Module - 9: Dynamic Analysis Techniques
- Module - 10: Shellcode Analysis Techniques
- Module - 11: Analyse Metasploit Generated Malware Samples
- Module - 12: Analyse Non executable Malware (PDF, JavaScript etc.)
- Module - 13: Analyse Malware in Office Document (Macro)
- Module - 14: Unpacking Malwares
- Module - 15: Introduction to Reverse Engineering
- Module - 16: Windows Architecture
- Module - 17: Assembly Language Fundamentals
- Module - 18: Reverse Engineering Techniques
- Module - 19: Anti-Reversing Techniques
- Module - 20: Project

Frequently asked questions (FAQ's)

1. What must be the minimum age for doing this course?

Answer - There is no minimum age requirement for doing this course.

2. What must be the minimum qualification required for doing this course?

Answer - There is no minimum qualification required if the student meets the **Eligibility Criteria**.

3. Will I get any course material?

Answer - Yes, all materials are available on our online virtual lab, you can access them fully upto 1 year from the date of admission.

4. Will I get a certificate after this course?

Answer - Yes, certificate (hardcopy/softcopy) will be provided after the course which will consist of a grade provided by the assigned trainer as per the final project submitted.

5. In which language classes will be conducted?

Answer - Classes will be conducted mainly on English, Hindi & Bengali, mainly it will depend on majority criteria.

6. Is this for professionals, students or both?

Answer - This course is both for Professionals and Students.

7. Will there be any exam or project?

Answer - Yes, there will be 3 exams through the whole course duration and 1 project to be done after the course completion based on which Grade for certificate will be provided.

8. Will I have to carry my own laptop or it will be provided?

Answer - It is recommended that the student carry his/her own system because it makes their self-practise easier. In case of emergency laptop/desktop can be provided by us.

9. What kind of jobs roles can I apply after doing this course?

Answer - You can apply for any job roles related to the course.

10. Can I apply for an Internships at IEM Labs? What will be the selection criteria and procedure?

Answer - After completion of minimum 2 courses you can apply for an Internship. There will be a technical interview, based on the reports from Faculty and Technical Interview selection will be granted.

11. Are the Internships paid?

Answer - Yes, the Internships are "***Paid Internships***".

12. My question is not enlisted here, whom can I contact?

Answer - Feel free to get in touch with us at: -

- Email: iema@iemlabs.com
- Phone: India: +91 9163198148 | Canada: +1-604-431-979