



**JAIN**  
DEEMED-TO-BE UNIVERSITY

SCHOOL OF  
COMPUTER  
SCIENCE AND IT

Department of  
**Bachelor of Computer Applications**

**Information Security & Mobile Applications – Section <A>**

**Ethical Hacking Fundamentals**  
Activity #01

**LinkedIn Learning Certification Course**  
*[Part-1: Introduction to Ethical Hacking]*

**Subject Code: 19BCA4C02**  
**Class: II<sup>nd</sup> Year II<sup>nd</sup> Semester**

Submitted On:

23-12-2022

By:

Suman Garai  
20BCAR0246

---

Signature

Faculty In-Charge:

Dr. Ajay Shriram  
Khushwaha

---

Signature



## Certificate

This is to certify that Mr./Ms. Suman Garai with USN 20BCAR0246 has satisfactorily completed the Activity I Part 1 LinkedIn Course Name: Ethical Hacking: Introduction to Ethical Hacking Hours: 1 hour 31 minutes prescribed by Department of BCA, School of Computer Science & IT, Jain (Deemed-to-be-University), Bengaluru for the partial fulfilment of fifth semester BCA Degree Course in the year 2021-2022, and has secured \_\_\_\_\_ out of 10.

23-12-2022

Date of Submission

\_\_\_\_\_  
Signature of Student

A handwritten signature in blue ink, appearing to read 'S. K. Sharma', is written over a horizontal line.

\_\_\_\_\_  
Signature of Faculty  
In-Charge



**JAIN**  
DEEMED-TO-BE UNIVERSITY

SCHOOL OF  
COMPUTER  
SCIENCE AND IT

## Evaluation Criteria

Sr. No.	Criteria / Parameters	Total Marks	Marks Obtained
1	On-time submission Certification	05	
2	Certification of Completion	05	
3	Report (with Assessment Screenshots test attempted)	05	
4	Conclusion [ Minimum one page without any kind of plagiarism]	10	
	TOTAL	25	
	CONVERT	10	



**JAIN**  
DEEMED-TO-BE UNIVERSITY

SCHOOL OF  
COMPUTER  
SCIENCE AND IT

## Table of Contents

Sl. No.	Title	Conduct Date	Page No.
1	Footprinting basics with Windows & Linux Command Line utility		01 – 09
2	Footprinting using Maltego in Kali Linux		10 – 13
3	Footprinting using Recon-ng in Kali Linux		14 – 26
4	Footprinting using Open-Source Intelligence Gathering using OSRFamework in Kali Linux		27 – 35
	CIA 01		36 – 40
5	Information Gathering using Metasploit in Kali Linux		41 – 43
6	Information Gathering using theHarvester in Kali Linux.		44 – 46
7	Perform Networking Scanning for UDP and TCP Packet crafting techniques using hpin3 tool in Kali Linux.		47 – 49
8	Perform Scanning Network using Nmap/Zenmap tool in Kali Linux		50 – 54
	CIA 02		55 – 58
9	Practical to perform enumerating services on user network using Nmap.		59 – 62
10	Perform vulnerability scan on target system using Nessus in Kali Linux.		63 – 66
11	Perform a practical to hack Metasploitable2 using Kali Linux.		67 – 69
12	Practical to perform Network & Password Sniffing using Wireshark.		70 – 72
	CIA 03		73 – 75