



**INDUS INSTITUTE
Of
Information & Communication
Technology**

Department of Computer Science

M.Sc. Cyber Security

2nd Semester

Subject Name: Mobile And IoT Security

Subject Code: MSCY0201

Submitted To: Mr. Ganesh Kuche

Submitted By: Punit Soni (IU2454520053)

CERTIFICATE

This is to certify that

Mr. Punit Soni with

*Enrollment number **IU2454520053** Semester **2** has*

*successfully completed his/her laboratory experiments in the **Mobile***

*And IoT Security (MSCY0201) from the department of **IIICT-M.sc***

cyber security during the academic year 2024 - 25

Date of Submission:

Staff in charge: Mr. Ganesh Kuche

Head of Department:

TABLE OF CONTENTS

Sr. No	Experiment Title	Page no.	Date	Mark	Signature
1	Setting up a secure mobile device configuration and hardening the OS and applications.	1	06/01/2025		
2	Conduct vulnerability assessments and penetration testing of mobile and IoT devices.	6	06/01/2025		
3	Analysing network traffic on mobile and IoT devices to identify potential security risks.	10	20/01/2025		
4	Performing static and dynamic analysis of mobile applications to detect vulnerabilities and potential malware.	13	20/01/2025		
5	Decompiling apk by using apktoolkit.	17	27/01/2025		
6	Adb installation and connecting with emulator.	20	03/02/2025		
7	Using tools like Wireshark and tcpdump to capture and analyze mobile and IoT network traffic.	22	10/02/2025		
8	Re-compiling the apk using apktool kit.	25	17/02/2025		
9	Analyzing mobile and IoT malware samples using tools like VirusTotal and Yara.	27	24/02/2025		
10	Application signing by using the apksigner.	30	03/03/2025		
11	Converting apk into jar file.	32	10/03/2025		
12	Opening jar file in jdx GUI and find hardcore strings.	35	12/03/2025		
13	Conducting security audits and assessments of mobile and IoT environments using tools like Nmap and Metasploit.	37	24/03/2025		
14	Implementing disaster recovery and incident response plans for mobile and IoT environments.	40	07/04/2025		
15	Investigating and responding to security incidents on mobile and IoT devices and networks.	43	14/04/2025		