

TECNIA INSTITUTE OF ADVANCED STUDIES
NAAC ACCREDITED GRADE "A" INSTITUTE
Master of Computer Applications

TIAS/MCA/VAC/2019-20/44

Dated: 27/04/2020

Academic Session: 2019-20

Status on Date 27/04/2020

This is to certify that the course module for Value Added Course, entitled Certificate Course in Web Security scheduled from 24.02.2020 to 27.04.2020 comprising of 30 hours deliverance has been completed by the resource person Dr. Vishal Khatri, Faculty in Department of Computer Applications with the module contents as under:

S.No.	Contents Deliverance	Learning Outcomes
1	Introduction to Web Security (1 Hrs)	Understand the fundamental concepts of web security, including common vulnerabilities and threats specific to web applications.
2	Web Application Architecture and Technologies (4 Hrs)	Identify and mitigate security risks in web applications, such as cross-site scripting (XSS), SQL injection, cross-site request forgery (CSRF), and insecure direct object references.
3	Injection Attacks (2 Hrs)	Implement secure coding practices to develop robust and secure web applications, including input validation, output encoding, and proper error handling.
4	Cross-Site Request Forgery (CSRF) (2 Hrs)	Apply web application security testing methodologies and tools to identify vulnerabilities and assess the security posture of web applications.
5	Cross-Origin Resource Sharing (CORS) and Same-Origin Policy (4 Hrs)	Understand the principles of secure authentication and authorization mechanisms, including session management, password hashing, and access control.
6	Authentication and Session Management (4 Hrs)	Configure and secure web servers, including HTTP security headers, SSL/TLS encryption, and secure configurations for popular web servers like Apache or Nginx.

	Access Control (1 Hrs)	Implement security measures for securing APIs and web services, including authentication, authorization, and input validation.
8	Secure Coding Practices (3 Hrs)	Understand the importance of secure data storage and transmission, including encryption secure protocols, and secure handling of
9	Secure Communication (1 Hrs)	Conduct secure code reviews and vulnerability assessments to identify and remediate security weaknesses in web applications.
10	Web Application Firewalls (WAF) (2 Hrs)	Stay updated with the latest web security vulnerabilities, exploits, and best practices to proactively protect web applications.
11	Security Testing and Vulnerability Assessment (2 Hrs)	Understand the legal and ethical considerations in web security, including compliance with data protection laws, responsible disclosure, and ethical hacking guidelines.
12	Best Practices and Security Frameworks (4 Hrs)	Develop incident response skills to effectively respond to and handle security incidents related to web applications.

All the above contents are delivered to the best of my knowledge and belief and nothing is withheld.

Vishal

Signature of Faculty

Name of Faculty: Dr. Vishal Khatri

Dated: 27/04/2020

Submitted to HoD-MCA, Department of Computer Applications

Students' Declaration

We would like to declare, that the course module for Value Added Course for the Certificate Course in Web Security scheduled from 24.02.2020 to 27.04.2020 comprising of 30 hours, has been completed by the resource person Dr. Vishal Khatri, Faculty in Department of Computer Applications to our satisfaction and is able to help in developing our domain knowledge and capacity building.

S.No.	Enrollment No.	Student's Name	Signature
1	00117004418	ABHISHEK KUMAR	Abhishek
2	00117024418	AASHNA CHOUDHARY	@Choudhary
3	00217004418	HIMANSHI RATHI	Himanshi
4	00317004418	MANIK BHARDWAJ	manik
5	00317024418	KARTIK SANG	kartik
6	00417004418	PRABAL SETHI	PRABAL
7	00517004418	PRATEEK MITTAL	P.mittal
8	00517024418	ANKIT SHARMA	Ankit
9	00617024418	PRATEEK CHHITORIA	Prateek
10	00817024418	ANJALI DOGRA	Anjali
11	35117004418	ANKITA BAJPAI	Ankita
12	35217004418	ASHIKA KARIWAL	Ashika
13	35317004418	GAURAV KRISHAN	Gaurav
14	35417004418	RASHMI	Rashmi
15	35517004418	UTKARSH AWASTHI	U.Awasthi
16	90117004418	SUSHMITA	Sushmita
17	00617004418	PRIYA	Priya
18	00521324418	SAJAL TRIPATHI	Sajal
19	00621324418	ARJAN SINGH	A.Singh
20	00721324418	PRIYAM MONDAL	Priyam Mondal
21	00821324418	ANJALI GUPTA	Anjali
22	00921324418	PULKIT GUPTA	Pulkit
23	40117004418	RIJO ABRAHIM ROY	Rejo
24	00117002019	MANAV GUPTA	Manav Gupta
25	00217002019	SHIVAM BHANDARI	Shivam
26	00317002019	ANANDITA	Anandita

27	00417002019	YASH PARASHAR	Yash
28	00517002019	VANSHITA VERMA	Vanshita
29	00617002019	NITIKA BHOLA	Nitika
30	00717002019	ISHA BATRA	Isha
31	00917002019	DARSH VERMA	D. Verma
32	01017002019	AYUSH JAGGA	Ayush
33	01117002019	SHUBHAM CHAUDHARY	Shubham
34	01217002019	TUSHAR SOHAL	Tsohal
35	01317002019	YASH BISHT	Yash Bisht
36	01417002019	SHIVAM THAKRAN	Shivam
37	01517002019	SARTHAK VIJ	Sarthak
38	01617002019	ADITYA GOYAL	A. Goyal
39	01717002019	BHUMIKA GOGNA	Bhumika
40	01817002019	SANTOSH VERMA	Santosh
41	01917002019	ANJALI JAIN	Anjali
42	02017002019	ADITYA TIWARI	Aditya
43	02117002019	ROHIT VERMA	Rohit
44	02217002019	ABHINAV PAL	Abhinav
45	02317002019	ROHANDEEP	Rohandeep
46	02417002019	DIKSHA DUREJA	Diksha
47	02117002019	KESHAV GULATI	Keshav
48	02217002019	VANSHIKA AGGARWAL	Vanshika
49	02317002019	JANUAL	Januel
50	02417002019	KUNIKA	Kunika