



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2021-2022/ EVEN SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs,SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	Deep Learning in Cyber Security				
Resource Person:	Prof. Mr.Tamilventhan Director, Lift Technologies Trichy.				
Date of conduct from:	14.02.2022	To:	18.02.2022	Duration:	30 Hours
Organized Department:	INFORMATION TECHNOLOGY				
Participant Year:	IT IV,III,II	Semester:	EVEN	No. of Students Registered:	75
Venue:	IT Seminar Hall				

Table of Content

S. No	Document	Page No
1.	VAC Circular	3-3
2.	VAC Schedule	4-4
3.	List of the Students Participation	5-7
4.	VAC Report	8-9
5.	VAC Test Answer Sheet- Sample	10-17
6.	VAC Test Paper	18-21
7.	VAC Answer Key	22-22
8.	Attendance of students	23-26
9.	VAC Mark Statement	27-31
10.	Course Completion Certificates	32-49



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Information Technology

Academic Year 2021-2022 –EVEN Semester

11.02.2022

DEPARTMENT CIRCULAR

Department of **Information Technology** and IQAC of IGCE in association with **Lift Technologies** is going to organize Value Added Course for all Second, Third and Final year students on “**Deep Learning in Cyber Security**” from 14.02.2022 to 18.02.2022 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	1. Prof. Mr.Tamilventhan Director, Lift Technologies Trichy. 2. Mr. R.PremNath, Project Manager, Tata Motors ,Chennai .
Venue	IT Seminar Hall, IGCE


HOD/IT


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering,
IG Valley, Madurai Main Road,
Manikandam, Trichy-620 012.


PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges - II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board



Value Added Course

“Deep Learning in Cyber Security”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Intrusion Detection and Prevention Systems (IDS/IPS)	3	14.2.22
2	Signature-Based Detection	3	14.2.22
3	Spam and Social Engineering Detection	3	15.2.22
4	User Behavior Analytics	3	15.2.22
5	Monitoring Emails	3	16.2.22
6	Supervised machine learning in cybersecurity	3	16.2.22
7	Binary classification—dividing data into two categories	3	17.2.22
8	Adaptive boosting and logistic regression	3	17.2.22
9	Reinforcement machine learning	3	18.2.22
10	Unsupervised machine learning in cybersecurity	2	18.2.22
11	Exam	1	18.2.22
Total Hours (Excluding Exam)		30	-


VAC Coordinator




HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-46B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



Value Added Course

"Deep Learning In Cyber Security"

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

STUDENTS PARTICIPATION LIST

S.N O	REG NO	STUDENTS NAME	YEAR/ BRANC H
1	811218205001	Deepa T	IV/IT
2	811218205002	Dharshini K	IV/IT
3	811218205003	Gopi U	IV/IT
4	811218205004	Harish R	IV/IT
5	811218205005	Irudhayaraj A	IV/IT
6	811218205006	Janani S	IV/IT
7	811218205007	Janarthanan	IV/IT
8	811218205008	Kamalesh A	IV/IT
9	811218205009	Kaviyarasu C	IV/IT
10	811218205010	Kayalvizhi.B	IV/IT
11	811218205011	Manoharan T	IV/IT
12	811218205012	Meena R	IV/IT
13	811218205013	Milton Billgates J	IV/IT
14	811218205014	Mohammed Aarif J	IV/IT
15	811218205015	Pavithra.N	IV/IT
16	811218205016	Priyanka A	IV/IT
17	811218205017	Robinson Isaiah E	IV/IT
18	811218205018	Selvi M	IV/IT
19	811218205019	Shalini Gayathri S	IV/IT
20	811218205020	Sivaraman S	IV/IT
21	811218205021	Snekaa R	IV/IT
22	811218205022	Suganya K	IV/IT
23	811218205023	Vasanth S	IV/IT
24	811218205024	Vijayakaran M	IV/IT
25	811218205025	Wilson Jayaraj S	IV/IT
26	811218205026	Antony Arul Doss A	IV/IT
27	811218205027	Geethanjali R	IV/IT
28	811218205301	Dhanalaxmi.K	IV/IT
29	811219205001	Akash V	III/IT
30	811219205002	Akilandeswari J	III/IT
31	811219205003	Aravindhan R	III/IT
32	811219205004	Aravindhan M	III/IT



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S.N O	REG NO	STUDENTS NAME	YEAR/ BRANC H
33	811219205005	Jeevitha M	III/IT
34	811219205006	Kaviya K	III/IT
35	811219205008	Libia Pojathsiyu C	III/IT
36	811219205009	Mageshwaran M	III/IT
37	811219205011	Ranjith M	III/IT
38	811219205012	Ranjith kumar A	III/IT
39	811219205013	Shareen Banu M R	III/IT
40	811219205014	Shobana K	III/IT
41	811219205015	Sivaranjani P	III/IT
42	811219205016	Sowmiya P	III/IT
43	811219205017	Surya A	III/IT
44	811219205018	Swetha S	III/IT
45	811219205019	Tamil selvi T	III/IT
46	811219205020	Vijaya kumar M	III/IT
47	811219205021	Visalini P	III/IT
48	811219205501	Karthick A	III/IT
49	811220205002	Aiswariya V	II/IT
50	811220205004	Anbazhagan S	II/IT
51	811220205005	Balamohan R	II/IT
52	811220205006	Benny A	II/IT
53	811220205007	Boomika P	II/IT
54	811220205008	Charulatha B	II/IT
55	811220205009	Chiranjeevi V	II/IT
56	811220205011	Dinesh M	II/IT
57	811220205012	Gowtham B	II/IT
58	811220205014	Hariharan S	II/IT
59	811220205015	Hemalatha G	II/IT
60	811220205016	Jeeva M	II/IT
61	811220205018	Keerthana S	II/IT
62	811220205019	Kirubhashree D	II/IT
63	811220205020	Krishnan N	II/IT
64	811220205021	Magesh G	II/IT
65	811220205022	Mahasuvetha M	II/IT
66	811220205023	Manikandan M	II/IT
67	811220205024	Meenatchi A	II/IT
68	811220205025	Mohanapriya K	II/IT
69	811220205026	Monisha A	II/IT

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S.N O	REG NO	STUDENTS NAME	YEAR/ BRANC H
70	811220205027	Murugesan K	II/IT
71	811220205029	Pragathi R	II/IT
72	811220205030	Priyanga K	II/IT
73	811220205032	Rajeswari S	II/IT
74	811220205035	Rasika A	II/IT
75	811220205036	Ravikumar M	II/IT


VAC Coordinator




HOD/IT




Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

REPORT ON VALUE ADDED COURSE

Title:	“Deep Learning in Cyber Security”				
Resource Person:	Prof.Mr. Tamilventhan Director, Director, Lift Technologies,Trichy		Mr.R.PremNath, Project MANager,Tata Motors ,Chennai		
Date of conduct from :	14.02.2022	To:	18.02.2022	Duration:	30 Hours
Organized Department :	Information Technology				
Participant Year:	2,3,4		No. of Students Registered :	75	
Venue:	IT Seminar Hall				
Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to					
<ul style="list-style-type: none">• Decision tree algorithm for detecting and classifying attacks• Dimensionality reduction algorithms for removing noisy and irrelevant data• K-means clustering for detecting malware , K-nearest neighbors classifier (kNN) for facial recognition used for authentication• Linear regression for predicting network security outcomes , Logistic regression for fraud detection• Support Vector Machine (SVM) algorithm for classifying, detecting, and predicting blacklisted IP addresses and port addresses					
Assessment Process					
<ul style="list-style-type: none">• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)					
 VAC Coordinator		 HoD/IT		 Principal	

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

SAMPLE PHOTOS OF VALUE ADDED COURSE

Title: **"Deep Learning in Cyber Security"**

Resource Person: **Prof. Mr. Tamilventhan Director,
Director, Lift Technologies, Trichy**

**Mr. R. Prem Nath,
Project Manager, Tata
Motors, Chennai**

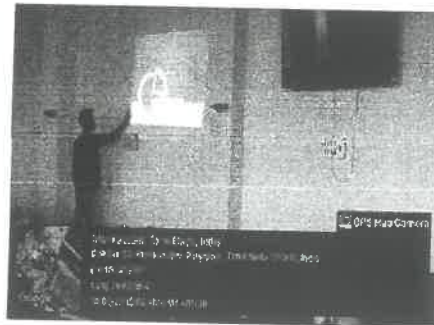
Date of conduct from : **14.02.2022** To: **18.02.2022** Duration: **30 Hours**

Organized Department : **Information Technology**

Participant Year: **2,3,4** No. of Students Registered : **75**

Venue: **IT Seminar Hall**


Sample Photos:




VAC Coordinator


HoD/IT


Principal


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

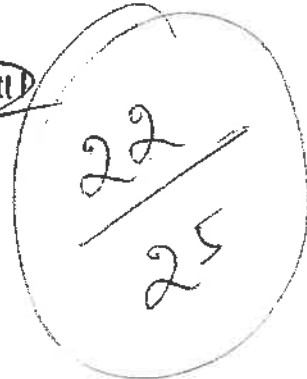


Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Name of the Student: Ranjith. M
AU Register Number: 811219205011

Year/Sem: II D



Value Added Course

“Deep Learning In Cyber Security “

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. Amongst which of the following are the primary goals of cyber security?

- A. Encryption, authorization, and availability
- B. Confidentiality, integrity, and authentication
- C. Firewalls, intrusion detection, and data backups
- D. Phishing prevention, malware detection, and spam filtering

2. The term "Cyber Threats" in cyber security refers to ____.

- A. Techniques used by cybersecurity professionals to protect systems
- B. Malicious activities are carried out by hackers to breach firewalls
- C. Hardware components that are susceptible to cyber-attacks
- D. The process of encrypting sensitive data for secure transmission

3. The process of encoding data to protect it from unauthorized access is known as ____.

- A. Encryption
- B. Firewall
- C. Intrusion Detection
- D. Multi-factor Authentication

4. Which of the following options best defines an attack vector in terms of cyber security?

- A. A software tool used by ethical hackers to test system vulnerabilities
- B. A technique to encrypt sensitive data during transmission
- C. A method or avenue used by cyber threats to gain unauthorized access to a system or network
- D. A hardware component that helps prevent denial-of-service attacks

5. What is the significance of a firewall in cybersecurity?

- A. To prevent unauthorized physical access to a computer
- B. To detect and remove malware from a computer
- C. To protect a computer from unauthorized network access
- D. To encrypt sensitive data on a computer

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

6. Which of the following options correctly identifies the two primary types of encryption used in cybersecurity?

- A. Symmetric encryption and multi-factor authentication
- B. Asymmetric encryption and Private-key encryption
- C. Single-factor encryption and Decryption
- D. Symmetric encryption and Asymmetric encryption

7. Phishing is a type of cyber threat that involves ____.

- A. Mimicking an authorized user to steal sensitive information
- B. Gaining unauthorized access to a system
- C. Local storage destruction
- D. Sending large amounts of fake traffic to a server

8. What does the term "Malware" stands for?


- A. Malfunctioning Software
- B. Malicious Firmware
- C. Malfunctioning Hardware
- D. Malicious Software

9. Which of the following is an example of a cyber-attack on physical infrastructure?

- A. Phishing attack on employee's email
- B. DDoS attack on the company's server
- C. Stuxnet attack on an irrigation control system
- D. Ransomware attack on company's server

10. What does the term "VPN" stand for?

- A. Virtual Personal Network
- B. Virtual Private Network
- C. Virtual Portable Network
- D. Virtual Public Network


Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

11. Amongst which of the following shows the importance of regular data backups in cyber security?

- A. To protect against social engineering attacks
- B. To encrypt sensitive data during transmission
- C. To prevent unauthorized access to a network
- D. To ensure data recovery in case of data loss or cyber-attacks

12. Which of the following is a common type of social engineering attack?

- A. Brute force attack
- B. Distributed Denial of Service (DDoS) attack
- C. Phishing attack



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

13. Which of the following is not a typical source of data leakage threats?

- A. Phishing attacks
- B. Insider threats
- C. Antivirus software
- D. Unsecured Wi-Fi networks

14. Amongst which of the following is not an example of physical data leakage?

- A. Printer
- B. Using weak passwords for online accounts
- C. Dumpster diving
- D. Shoulder surfing

15. Safeguarding the data from unauthorized modification by unknown users is known as _____.


- A. Integrity
- B. Confidentiality
- C. Availability
- D. Authenticity

16. What occurs when integrity is lacking in a system?

- A. Data breaches and unauthorized access
- B. Loss of data due to hardware failure
- C. Encryption of sensitive information
- D. Secure transmission of data over the internet

17. Which one of the following is a common way to maintain data availability? *

- A. Data Encryption
- B. Regular Data Backups
- C. Intrusion Detection Systems
- D. Multi-factor Authentication


Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

18. Which of the following options is true about "Vulnerability"?

- A. Vulnerability refers to the act of maliciously exploiting software flaws
- B. Vulnerability is a measure of the potential impact of a cyber-attack
- C. Vulnerability is a security mechanism used to protect computer systems
- D. Vulnerability is a weakness or flaw in a system that could be exploited by threats

19. Social engineering is _____.


- A. A software technique used to prevent unauthorized access to a system
- B. A method used to protect data from modification by unauthorized users
- C. A cybersecurity principle that focuses on data confidentiality
- D. A type of cyber-attack that manipulates human psychology to deceive individuals and gain unauthorized access



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

20. What does the letter "A" stand for in the CIA triad of cybersecurity?
- A. Authorization
 - B. Accessibility
 - C. Authentication
 - D. Anonymity
21. Which type of encryption uses the same key for both encryption and decryption?
- A. Symmetric encryption
 - B. Asymmetric encryption
 - C. Hybrid encryption
 - D. Public-key encryption
22. PGP is primarily used for ____.
- E. Network routing and packet filtering
 - F. Securely transferring files over FTP
 - G. Encrypting and decrypting email messages
 - H. Managing database access and permissions
23. Which of the following encryption standard is used to secure Internet communications?
- A. AES (Advanced Encryption Standard)
 - B. RSA (Rivest-Shamir-Adleman)
 - C. DES (Data Encryption Standard)
 - D. MD5 (Message Digest Algorithm 5)
24. The process of converting ciphertext back into its original plaintext is known as ____.
- A. Encryption
 - B. Decryption
 - C. Phishing
 - D. Hashing
25. Which key is kept private and known only to the owner in public-key encryption?
- A. Public key
 - B. Secret key
 - C. Private key
 - D. Shared key


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Name of the Student: *Kayalvizhi*

Year/Sem: *IV*

AU Register Number: *8 112 18 205010*

Value Added Course

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

"Deep Learning In Cyber Security"

19

25

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. Amongst which of the following are the primary goals of cyber security?

- A. Encryption, authorization, and availability
- B. Confidentiality, integrity, and authentication
- C. Firewalls, intrusion detection, and data backups
- D. Phishing prevention, malware detection, and spam filtering

2. The term "Cyber Threats" in cyber security refers to ____.

- A. Techniques used by cybersecurity professionals to protect systems
- B. Malicious activities are carried out by hackers to breach firewalls
- C. Hardware components that are susceptible to cyber-attacks
- D. The process of encrypting sensitive data for secure transmission

3. The process of encoding data to protect it from unauthorized access is known as ____.

- A. Encryption
- B. Firewall
- C. Intrusion Detection
- D. Multi-factor Authentication

4. Which of the following options best defines an attack vector in terms of cyber security?

- A. A software tool used by ethical hackers to test system vulnerabilities
- B. A technique to encrypt sensitive data during transmission
- C. A method or avenue used by cyber threats to gain unauthorized access to a system or network
- D. A hardware component that helps prevent denial-of-service attacks

5. What is the significance of a firewall in cybersecurity?

- A. To prevent unauthorized physical access to a computer
- B. To detect and remove malware from a computer
- C. To protect a computer from unauthorized network access
- D. To encrypt sensitive data on a computer



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

6. Which of the following options correctly identifies the two primary types of encryption used in cybersecurity?

- A. Symmetric encryption and multi-factor authentication
- B. Asymmetric encryption and Private-key encryption
- C. Single-factor encryption and Decryption
- D. Symmetric encryption and Asymmetric encryption

7. Phishing is a type of cyber threat that involves ____.

- A. Mimicking an authorized user to steal sensitive information
- B. Gaining unauthorized access to a system
- C. Local storage destruction
- D. Sending large amounts of fake traffic to a server

8. What does the term "Malware" stands for?

- A. Malfunctioning Software
- B. Malicious Firmware
- C. Malfunctioning Hardware
- D. Malicious Software

9. Which of the following is an example of a cyber-attack on physical infrastructure?

- A. Phishing attack on employee's email
- B. DDoS attack on the company's server
- C. Stuxnet attack on an irrigation control system
- D. Ransomware attack on company's server

10. What does the term "VPN" stand for?

- A. Virtual Personal Network
- B. Virtual Private Network
- C. Virtual Portable Network
- D. Virtual Public Network

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

11. Amongst which of the following shows the importance of regular data backups in cyber security?

- A. To protect against social engineering attacks
- B. To encrypt sensitive data during transmission
- C. To prevent unauthorized access to a network
- D. To ensure data recovery in case of data loss or cyber-attacks

12. Which of the following is a common type of social engineering attack?

- A. Brute force attack
- B. Distributed Denial of Service (DDoS) attack
- C. Phishing attack



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

13. Which of the following is not a typical source of data leakage threats?

- A. Phishing attacks
- B. Insider threats
- C. Antivirus software
- D. Unsecured Wi-Fi networks

14. Amongst which of the following is not an example of physical data leakage?

- A. Printer
- B. Using weak passwords for online accounts
- C. Dumpster diving
- D. Shoulder surfing

15. Safeguarding the data from unauthorized modification by unknown users is known as _____.


- A. Integrity
- B. Confidentiality
- C. Availability
- D. Authenticity

16. What occurs when integrity is lacking in a system?

- A. Data breaches and unauthorized access
- B. Loss of data due to hardware failure
- C. Encryption of sensitive information
- D. Secure transmission of data over the internet

17. Which one of the following is a common way to maintain data availability?

- A. Data Encryption
- B. Regular Data Backups
- C. Intrusion Detection Systems
- D. Multi-factor Authentication


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

18. Which of the following options is true about "Vulnerability"?

- A. Vulnerability refers to the act of maliciously exploiting software flaws
- B. Vulnerability is a measure of the potential impact of a cyber-attack
- C. Vulnerability is a security mechanism used to protect computer systems
- D. Vulnerability is a weakness or flaw in a system that could be exploited by threats

19. Social engineering is _____.

- A. A software technique used to prevent unauthorized access to a system
- B. A method used to protect data from modification by unauthorized users
- C. A cybersecurity principle that focuses on data confidentiality
- D. A type of cyber-attack that manipulates human psychology to deceive individuals and gain unauthorized access




Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

20. What does the letter "A" stand for in the CIA triad of cybersecurity?
- A. Authorization
 - B. Accessibility
 - C. Authentication
 - D. Anonymity
21. Which type of encryption uses the same key for both encryption and decryption?
- A. Symmetric encryption
 - B. Asymmetric encryption
 - C. Hybrid encryption
 - D. Public-key encryption
22. PGP is primarily used for ____.
- E. Network routing and packet filtering
 - F. Securely transferring files over FTP
 - G. Encrypting and decrypting email messages
 - H. Managing database access and permissions
23. Which of the following encryption standard is used to secure Internet communications?
- A. AES (Advanced Encryption Standard)
 - B. RSA (Rivest-Shamir-Adleman)
 - C. DES (Data Encryption Standard)
 - D. MD5 (Message Digest Algorithm 5)
24. The process of converting ciphertext back into its original plaintext is known as ____.
- A. Encryption
 - B. Decryption
 - C. Phishing
 - D. Hashing
25. Which key is kept private and known only to the owner in public-key encryption?
- A. Public key
 - B. Secret key
 - C. Private key
 - D. Shared key


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Name of the Student:

Year/Sem:

AU Register Number:

Value Added Course


Dr. G. Balakrishnan, M.E., Ph.D., "Deep Learning In Cyber Security"

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. Amongst which of the following are the primary goals of cyber security?
 - A. Encryption, authorization, and availability
 - B. Confidentiality, integrity, and authentication
 - C. Firewalls, intrusion detection, and data backups
 - D. Phishing prevention, malware detection, and spam filtering
2. The term "Cyber Threats" in cyber security refers to _____.
 - A. Techniques used by cybersecurity professionals to protect systems
 - B. Malicious activities are carried out by hackers to breach firewalls
 - C. Hardware components that are susceptible to cyber-attacks
 - D. The process of encrypting sensitive data for secure transmission
3. The process of encoding data to protect it from unauthorized access is known as _____.
 - A. Encryption
 - B. Firewall
 - C. Intrusion Detection
 - D. Multi-factor Authentication
4. Which of the following options best defines an attack vector in terms of cyber security?
 - A. A software tool used by ethical hackers to test system vulnerabilities
 - B. A technique to encrypt sensitive data during transmission
 - C. A method or avenue used by cyber threats to gain unauthorized access to a system or network
 - D. A hardware component that helps prevents denial-of-service attacks
5. What is the significance of a firewall in cybersecurity?
 - A. To prevent unauthorized physical access to a computer
 - B. To detect and remove malware from a computer
 - C. To protect a computer from unauthorized network access
 - D. To encrypt sensitive data on a computer



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

6. Which of the following options correctly identifies the two primary types of encryption used in cybersecurity?

- A. Symmetric encryption and multi-factor authentication
- B. Asymmetric encryption and Private-key encryption
- C. Single-factor encryption and Decryption
- D. Symmetric encryption and Asymmetric encryption

7. Phishing is a type of cyber threat that involves ____.

- A. Mimicking an authorized user to steal sensitive information
- B. Gaining unauthorized access to a system
- C. Local storage destruction
- D. Sending large amounts of fake traffic to a server

8. What does the term "Malware" stands for?

- A. Malfunctioning Software
- B. Malicious Firmware
- C. Malfunctioning Hardware
- D. Malicious Software

9. Which of the following is an example of a cyber-attack on physical infrastructure?

- A. Phishing attack on employee's email
- B. DDoS attack on the company's server
- C. Stuxnet attack on an irrigation control system
- D. Ransomware attack on company's server

10. What does the term "VPN" stand for?

- A. Virtual Personal Network
- B. Virtual Private Network
- C. Virtual Portable Network
- D. Virtual Public Network

11. Amongst which of the following shows the importance of regular data backups in cyber security?

- A. To protect against social engineering attacks
- B. To encrypt sensitive data during transmission
- C. To prevent unauthorized access to a network
- D. To ensure data recovery in case of data loss or cyber-attacks

12. Which of the following is a common type of social engineering attack?

- A. Brute force attack
- B. Distributed Denial of Service (DDoS) attack


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.




Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

20. What does the letter "A" stand for in the CIA triad of cybersecurity?
- A. Authorization
 - B. Accessibility
 - C. Authentication
 - D. Anonymity
21. Which type of encryption uses the same key for both encryption and decryption?
- A. Symmetric encryption
 - B. Asymmetric encryption
 - C. Hybrid encryption
 - D. Public-key encryption
22. PGP is primarily used for ____.
- E. Network routing and packet filtering
 - F. Securely transferring files over FTP
 - G. Encrypting and decrypting email messages
 - H. Managing database access and permissions
23. Which of the following encryption standard is used to secure Internet communications?
- A. AES (Advanced Encryption Standard)
 - B. RSA (Rivest-Shamir-Adleman)
 - C. DES (Data Encryption Standard)
 - D. MD5 (Message Digest Algorithm 5)
24. The process of converting ciphertext back into its original plaintext is known as ____.
- A. Encryption
 - B. Decryption
 - C. Phishing
 - D. Hashing
25. Which key is kept private and known only to the owner in public-key encryption?
- A. Public key
 - B. Secret key
 - C. Private key
 - D. Shared key


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering,
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

13. Which of the following is not a typical source of data leakage threats?
- A. Phishing attacks
 - B. Insider threats
 - C. Antivirus software
 - D. Unsecured Wi-Fi networks
14. Amongst which of the following is not an example of physical data leakage?
- A. Printer
 - B. Using weak passwords for online accounts
 - C. Dumpster diving
 - D. Shoulder surfing
15. Safeguarding the data from unauthorized modification by unknown users is known as ____.
- A. Integrity
 - B. Confidentiality
 - C. Availability
 - D. Authenticity
16. What occurs when integrity is lacking in a system?
- A. Data breaches and unauthorized access
 - B. Loss of data due to hardware failure
 - C. Encryption of sensitive information
 - D. Secure transmission of data over the internet
17. Which one of the following is a common way to maintain data availability?
- A. Data Encryption
 - B. Regular Data Backups
 - C. Intrusion Detection Systems
 - D. Multi-factor Authentication
18. Which of the following options is true about "Vulnerability"?
- A. Vulnerability refers to the act of maliciously exploiting software flaws
 - B. Vulnerability is a measure of the potential impact of a cyber-attack
 - C. Vulnerability is a security mechanism used to protect computer systems
 - D. Vulnerability is a weakness or flaw in a system that could be exploited by threats
19. Social engineering is ____.
- A. A software technique used to prevent unauthorized access to a system
 - B. A method used to protect data from modification by unauthorized users
 - C. A cybersecurity principle that focuses on data confidentiality
 - D. A type of cyber-attack that manipulates human psychology to deceive individuals and gain unauthorized access


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Value Added Course “ Deep Learning In Cyber Security”

ANSWER KEY

1	B	6	D	11	D	16	A	21	A
2	B	7	A	12	C	17	B	22	C
3	A	8	D	13	C	18	D	23	A
4	C	9	C	14	B	19	D	24	B
5	C	10	B	15	A	20	C	25	C


VAC Coordinator



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Information Technology

Academic Year 2021-2022 – EVEN Semester

STUDENTS ATTENDANCE LIST

Value Added Course

“Deep Learning in Cyber Security “


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANC H	14.02.22		15.02.22		16.02.22		17.02.22		18.02.22		NO OF SESSIONS ATTENDE D	SIGN OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811218205001	Deepa T	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Deepa
2	811218205002	Dharshini K	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dharshini
3	811218205003	Gopi U	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	9	U. Gopi
4	811218205004	Harish R	IV/IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	R. Harish
5	811218205005	Irudhayaraj A	IV/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Irudhayaraj
6	811218205006	Janani S	IV/IT	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	9	S. Janani
7	811218205007	Janarthanan	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Janarthanan
8	811218205008	Kamalesh A	IV/IT	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	9	Kamalesh A
9	811218205009	Kaviyarasu C	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Kaviyarasu
10	811218205010	Kayalvizhi.B	IV/IT	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	9	Kayalvizhi
11	811218205011	Manoharan T	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Manoharan T
12	811218205012	Meena R	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Meena R
13	811218205013	Milton Billgates J	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Milton
14	811218205014	Mohammed Aarif J	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	J. Aarif

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S. NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	14.02.22		15.02.22		16.02.22		17.02.22		18.02.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
15	811218205015	Pavithra.N	IV/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Pavithra
16	811218205016	Priyanka A	IV/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Priyanka
17	811218205017	Robinson Isaiah E	IV/IT	✓	ⓐ	✓	✓	✓	✓	✓	ⓐ	✓	✓	9	E. Robinson
18	811218205018	Selvi M	IV/IT	✓	ⓐ	✓	✓	✓	✓	✓	ⓐ	✓	✓	8	M. Selvi
19	811218205019	Shalini Gayathri S	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Shalini
20	811218205020	Sivaraman S	IV/IT	✓	✓	✓	✓	ⓐ	ⓐ	✓	✓	✓	✓	8	Sivaraman
21	811218205021	Snekaa R	IV/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Snekaa R
22	811218205022	Suganya K	IV/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Suganya K
23	811218205023	Vasanth S	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vasanth S
24	811218205024	Vijayakaran M	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vijayakaran M
25	811218205025	Wilson Jayaraj S	IV/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	10	Wilson Jayaraj S
26	811218205026	Antony Arul Doss A	IV/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Antony Arul Doss A
27	811218205027	Geethanjali R	IV/IT	✓	✓	ⓐ	✓	ⓐ	✓	✓	✓	✓	✓	10	Geethanjali R
28	811218205301	Dhanalaxmi.K	IV/IT	✓	✓	ⓐ	✓	ⓐ	✓	✓	✓	✓	✓	8	Dhanalaxmi.K
29	811219205001	Akash V	III/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	8	Akash V
30	811219205002	Akilandeswari J	III/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	10	Akilandeswari J
31	811219205003	Aravindhana R	III/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Aravindhana R
32	811219205004	Chitra Bharathy M	III/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Chitra Bharathy M
33	811219205005	Jeevitha M	III/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Jeevitha M
34	811219205006	Kaviya K	III/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Kaviya K
35	811219205008	Libia Pojathsiyu C	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Libia Pojathsiyu C
36	811219205009	Mageshwaran M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Mageshwaran M

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 010.



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-48B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S. NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	14.02.22		15.02.22		16.02.22		17.02.22		18.02.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
37	811219205011	Ranjith M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
38	811219205012	Ranjith kumar A	III/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	10	M.Ranjith
39	811219205013	Shareen Banu M R	III/IT	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	9	Shareen Banu M R
40	811219205014	Shobana K	III/IT	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	9	Shobana K
41	811219205015	Sivaranjani P	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Shobana K
42	811219205016	Sowmiya P	III/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Silbray
43	811219205017	Surya A	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P.Surya
44	811219205018	Swetha S	III/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	A.Surya
45	811219205019	Tamil selvi T	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Tamil selvi T
46	811219205020	Vijaya kumar M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Tamil selvi T
47	811219205021	Visalini P	III/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	M.Vijaykumar
48	811219205501	Karthick A	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	P.Visalini
49	811220205002	Aiswariya V	II/IT	✓	ⓐ	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Karthick A
50	811220205004	Anbazhagan S	II/IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	8	Aiswariya V
51	811220205005	Balamohan R .	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Anbazhagan S
52	811220205006	Benny A	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Balamohan R .
53	811220205007	Boomika P	II/IT	✓	ⓐ	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Benny A
54	811220205008	Charulatha B	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Boomika P
55	811220205009	Chiranjeevi V	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	9	Charulatha B
56	811220205011	Dinesh M	II/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Chiranjeevi V
57	811220205012	Gowtham B	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Dinesh M
58	811220205014	Hariharan S	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Gowtham B
59	811220205015	Hemalatha G	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Hariharan S
				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Hemalatha G



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S. NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	14.02.22		15.02.22		16.02.22		17.02.22		18.02.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
60	811220205016	Jeeva M	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Jeeva
61	811220205018	Keerthana S	II/IT	✓	ⓐ	ⓐ	✓	✓	ⓐ	✓	✓	✓	✓	9	Jeeva
62	811220205019	Kirubhashree D	II/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	8	S. Keerthi
63	811220205020	Krishnan N	II/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	D. Kirubha
64	811220205021	Magesh G	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	rekrishnan
65	811220205022	Mahasuvetha M	II/IT	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	9	magesh
66	811220205023	Manikandan M	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Maha.
67	811220205024	Meenatchi A	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	9	M. Meenatchi
68	811220205025	Mohanapriya K	II/IT	✓	✓	✓	✓	ⓐ	ⓐ	✓	✓	✓	✓	8	mohanapriya
69	811220205026	Monisha A	II/IT	✓	✓	✓	✓	✓	✓	✓	ⓐ	ⓐ	✓	8	monisha
70	811220205027	Murugesan K	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	9	A. Mohan
71	811220205029	Pragathi R	II/IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Pragathi
72	811220205030	Priyanga K	II/IT	✓	✓	✓	ⓐ	ⓐ	✓	✓	✓	✓	✓	9	R. Priy
73	811220205032	Rajeswari S	II/IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	8	Rajeswari
74	811220205035	Rasika A	II/IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	S. Rasika
75	811220205036	Ravikumar M	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Ravikumar


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HoD/IT



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Information Technology

Academic Year 2021 - 2022-- EVEN Semester

VALUE ADDED COURSE ASSESMENT SHEET


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012..

“Deep Learning in Cyber Security “

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	811218205001	Deepa T	IV/IT	30	100	20	80	90
2	811218205002	Dharshini K	IV/IT	30	100	20	80	90
3	811218205003	Gopi U	IV/IT	27	90	19	76	83
4	811218205004	Harish R	IV/IT	27	90	21	84	87
5	811218205005	Irudhayaraj A	IV/IT	27	90	19	76	83
6	811218205006	Janani S	IV/IT	27	90	19	76	83
7	811218205007	Janarthanan	IV/IT	30	100	20	80	90
8	811218205008	Kamalesh A	IV/IT	27	90	19	76	83
9	811218205009	Kaviyarasu C	IV/IT	27	90	19	76	83
10	811218205010	Kayalvizhi.B	IV/IT	27	90	19	76	83
11	811218205011	Manoharan T	IV/IT	30	100	21	84	92



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12	811218205012	Meena R	IV/IT	30	100	20	80	90
13	811218205013	Milton Billgates J	IV/IT	30	92	20	80	86
14	811218205014	Mohammed Aarif J	IV/IT	30	100	22	88	94
15	811218205015	Pavithra.N	IV/IT	27	92	17	68	80
16	811218205016	Priyanka A	IV/IT	27	92	19	76	84
17	811218205017	Robinson Isaiah E	IV/IT	24	92	19	76	84
18	811218205018	Selvi M	IV/IT	30	100	20	80	90
19	811218205019	Shalini Gayathri S	IV/IT	24	83	16	64	74
20	811218205020	Sivaraman S	IV/IT	30	100	22	88	94
21	811218205021	Snekaa R	IV/IT	27	92	18	72	82
22	811218205022	Suganya K	IV/IT	30	100	22	88	94
23	811218205023	Vasanth S	IV/IT	30	100	22	88	94
24	811218205024	Vijayakaran M	IV/IT	30	92	20	80	86
25	811218205025	Wilson Jayaraj S	IV/IT	27	92	19	76	84
26	811218205026	Antony Arul Doss A	IV/IT	30	100	20	80	90
27	811218205027	Geethanjali R	IV/IT	24	83	16	64	74
28	811218205301	Dhanalaxmi.K	IV/IT	24	83	16	64	74
29	811219205001	Akash V	III /IT	30	100	22	88	94
30	811219205002	Akilandeswari J	III /IT	27	92	18	72	82

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
50	811220205004	Anbazhagan S	II/IT	27	90	19	76	83
51	811220205005	Balamohan R	II/IT	30	100	20	80	90
52	811220205006	Benny A	II/IT	27	90	19	76	83
53	811220205007	Boomika P	II/IT	24	80	21	84	82
54	811220205008	Charulatha B	II/IT	27	90	20	80	85
55	811220205009	Chiranjeevi V	II/IT	30	100	21	84	92
56	811220205011	Dinesh M	II/IT	27	90	20	80	85
57	811220205012	Gowtham B	II/IT	30	100	19	76	88
58	811220205014	Hariharan S	II/IT	30	100	20	80	90
59	811220205015	Hemalatha G	II/IT	30	100	21	84	92
60	811220205016	Jeeva M	II/IT	27	90	21	84	87
61	811220205018	Keerthana S	II/IT	24	80	20	80	80
62	811220205019	Kirubhashree D	II/IT	27	90	21	84	87
63	811220205020	Krishnan N	II/IT	30	100	20	80	90
64	811220205021	Magesh G	II/IT	27	90	19	76	83
65	811220205022	Mahasuvetha M	II/IT	30	100	19	76	88
66	811220205023	Manikandan M	II/IT	30	100	21	84	92
67	811220205024	Meenatchi A	II/IT	27	90	19	76	83
68	811220205025	Mohanapriya K	II/IT	24	80	20	80	80

Jr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
31	811219205003	Aravindhan R	III/IT	30	100	22	88	94
32	811219205004	Chitra Bharathy M	III/IT	27	92	20	80	86
33	811219205005	Jeevitha M	III/IT	27	92	20	80	86
34	811219205006	Kaviya K	III/IT	30	100	22	88	94
35	811219205008	Libia Pjathsiyu C	III/IT	30	92	20	80	86
36	811219205009	Mageshwaran M	III/IT	30	92	20	80	86
37	811219205011	Ranjith M	III/IT	30	100	22	88	94
38	811219205012	Ranjith kumar A	III/IT	27	92	20	80	86
39	811219205013	Shareen Banu M R	III/IT	27	92	20	80	86
40	811219205014	Shobana K	III/IT	30	100	22	88	94
41	811219205015	Sivaranjani P	III/IT	27	92	20	80	86
42	811219205016	Sowmiya P	III/IT	30	100	22	88	94
43	811219205017	Surya A	III/IT	30	100	20	80	90
44	811219205018	Swetha S	III/IT	27	90	19	76	83
45	811219205019	Tamil selvi T	III/IT	30	100	19	76	88
46	811219205020	Vijaya kumar M	III/IT	30	100	21	84	92
47	811219205021	Visalini P	III/IT	27	90	19	76	83
48	811219205501	Karthick A	III/IT	27	80	20	80	80
49	811220205002	Aiswariya V	II/IT	24	80	20	80	80



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
69	811220205026	Monisha A	II/IT	24	80	21	84	82
70	811220205027	Murugesan K	II/IT	27	90	22	88	89
71	811220205029	Pragathi R	II/IT	30	100	19	76	88
72	811220205030	Priyanga K	II/IT	27	90	19	76	83
73	811220205032	Rajeswari S	II/IT	24	80	21	84	82
74	811220205035	Rasika A	II/IT	27	90	20	80	85
75	811220205036	Ravikumar M	II/IT	30	100	21	84	92



VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HOD/IT



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Sivaraman.S** of IV ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from **14th February 2022 to 18th February 2022(5 days)** during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Selvi.M** of IV ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.Sc., Ph.D.
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Mohamed Aarif.J** of IV ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Pavithra.N** of IV ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. Meena.R of IV ...-IT.....has successfully completed the Value Added Course on “Deep Learning In Cyber Security” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. Janani.S of IV ...-IT.....has successfully completed the Value Added Course on “Deep Learning In Cyber Security” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. Akash.V of III ...-IT..... has successfully completed the Value Added Course on "Deep Learning In Cyber Security" organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022 (5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Ranjith.M** of III ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.

Principal

Indra Ganesan College of Engineering,

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Shobana.K** of III ...-IT.....has successfully completed the Value Added Course on “Deep Learning In Cyber Security” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Swetha.S** of III ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Sowmiya.P** of III ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, B.Sc., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road,
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. Kaviya.K of III ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Benny.A** of II ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Dhinesh.M** of II ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012,

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. Krishnan.N of II ...-IT.....has successfully completed the Value Added Course on “Deep Learning In Cyber Security” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Monisha.A** of II ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Pragathi.R** of II ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof. Mr. Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Rasika.A** of II ...-IT.....has successfully completed the Value Added Course on “**Deep Learning In Cyber Security**” organized by Department of Information Technology and IQAC of our Institution in Association with from 14th February 2022 to 18th February 2022(5 days) during the Academic year 2021-2022.

Prof.Mr.Tamilventhan

Director

Lift Technologies

Dr. G. Balakrishnan, M.E., Ph.D.

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Principal

IGCE