CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

PERMISSION LETTER

Date: 18.08.2022

From

Mrs.S.Prabhavathy

Assistant Professor / Course Coordinator

Department of Electronics and Communication Engineering

Christ the King Engineering College

Coimbatore

To

The Principal

Christ the King Engineering College

Coimbatore

Through : Head of The Department / Electronics and Communication Engineering

Respected Sir,

Sub: Requesting permission to organize a Value-Added Course on " Ethical Hacking " - Reg.

Department of Electronics and Communication Engineering is planning to organize a Value-Added Course on "Ethical Hacking" from 23.08.2022 to 16.09.2022 for Third year and Final Year ECE students. Ms.L.Pavithra, Assistant Professor, Department of Electronics and Communication Engineering as a Resource Person. In this regard, we seek your permission to conduct the same in the Seminar Hall from 23.08.2022 to 16.09.2022 from 4 pm to 6 pm. Kindly consider our request and grant the same.

Thanking You,

Yours truly,

(S.Prabhavathy)

Approved

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Dr.M.JEYAKUMAR, M.E.,Ph.D.
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

RefNo: CKEC/VAC/2022-2023/06

DATE:19.08.2022

CIRCULAR

This is to inform that the Department of Electronics and Communication Engineering is planning to conduct a value-added course on "**ETHICAL HACKING** " for all Second, third and final year students on 23.08.2022 to 16.09.2022 Students are asked to register you and utilize this opportunity to improve their skills.

S. No	Course Code	Name of the Course	Department	No of Hours	Course Coordinator
1	VACEC2206	ETHICAL HACKING	ECE	30	Mrs.S.Prabhavathy

Note: The circular Display in the department Notice board for student's attention.

HoD / ECE

Copy to:
Principal
Notice board

Dr.M.JEYAKUMAR, M.E.,Ph.D
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DEPARTMENT OF ECE

Organizes

VALUE ADDED COURSE ON

ETHICAL HACKING

23.08.2022 to 16-09-2022 (4 to 7pm)

Resource Person

Ms. L. Pavithra

Assistant Professor

Department of ECE Engineering

Chief Patron

Dr. M. Jeyakumar

Principal

Patron

Mr. V. Muralidharan

HOD / ECE

Coordinator

Mrs. S. Prabhavathy

AP / ECE

Dr.M.JEYAKUMAR, M.E.,Ph.D.
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VENUE: SEMINAR HALL

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DEPARTMENT OF ELECTRONOICS AND COMMUNICATION ENGINEERING

Course Code	VACEC2206
Name Of the Course	Ethical hacking
Duration Of the Course	30 Hours
Academic Year	2022-2023
Period Of the Course	15 days

COURSE OBJECTIVES:

- To learn about the different tools and techniques that hackers including ethical hackers employ
- Discover the elements of a four-phase penetration and how the four phases help a successful test

Syllabus

UNIT I Introduction to Ethical Hacking 6

Information Security Overview, Information Security Threads and attack vectors, Penetration testing concepts, Hacking Concepts, Ethical Hacking Concepts, Information Security law and Standards

UNIT II Foot printing and Reconnaissance 6

Foot printing concepts Foot printing through search engine, Foot printing through web services, Foot printing through Social Networking Sites, Email Foot Printing, Networking Foot Printing, Foot printing pen testing.

UNIT III Enumeration 6

Enumeration concepts, Net Bios Enumeration, SNMP Enumeration, LDAP Enumeration, SMTP Enumeration, other Enumeration techniques, Enumeration pen techniques.

UNIT IV System Hacking 6

System Hacking Concept, Cracking Passwords, Escalating Privileges, Executing Applications, Hiding Files, Covering Tracks, Penetration testing, Email Encryption, Disk Encryption.

UNIT V SQL Injection 5

SQL Injection concepts, Types of SQL Injection, SQL injection Methodology, SQL injection Tools, Evasion Techniques, Counter measures

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TOTAL HOURS:29

COURSE OUTCOME:

At the end of the course, the students will be able

- Awareness on the concept of ethical Hacking
- Acquire knowledge about the different tools and techniques that hackers including ethical hackers employ
- Will discover the elements of a four-phase penetration and how the four phases help a successful.

TEXT BOOK & REFERENCES:

1. Patrick Engebretson, "The Basics of Hacking and Penetration Testing: Ethical Hacking and Penetration Testing Made Easy", Syngress, 2013.
2. Jon Erickson., "Hacking: The Art of Exploitation", No Starch Press, 2008.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2206 - Ethical hacking

SCHEDULE

S. No	DAY	TIME/SESSION	CONTENT	RESOURCE PERSON
1	23.08.2022	4.00-6.00pm	Information Security Overview, Information Security Threads and attack vectors, Penetration testing concepts, Hacking Concepts, Ethical Hacking Concepts, Information Security law and Standards	**Ms.L.Pavithra** Department of Electronics and Communication Engineering, Christ the King Engineering College
	26.08.2022	4.00-6.00pm		
	27.08.2022	4.00-6.00pm		
2	29.08.2022	4.00-6.00pm	Foot printing concepts Foot printing through search engine, Foot printing through web services, Foot printing through Social Networking Sites, Email Foot Printing, Networking Foot Printing, Foot printing pen	
	30.08.2022	4.00-6.00pm		
	01.09.2022	4.00-6.00pm		
3	02.09.2022	4.00-6.00pm	Enumeration concepts, Net Bios Enumeration, SNMP Enumeration, LDAP Enumeration, SMTP Enumeration, other Enumeration techniques, Enumeration pen techniques	
	03.09.2022	4.00-6.00pm		
	07.09.2022	4.00-6.00pm		
4	09.09.2022	4.00-6.00pm	System Hacking Concept, Cracking Passwords, Escalating Privileges, Executing Applications, Hiding Files, Covering Tracks, Penetration testing, Email Encryption, Disk Encryption	
	10.09.2022	4.00-6.00pm		
	13.09.2022	4.00-6.00pm		
5	14.09.2022	4.00-6.00pm	SQL Injection concepts, Types of SQL Injection, SQL injection Methodology, SQL injection Tools, Evasion Techniques, Counter measures	
	15.09.2022	4.00-7.00pm		
	16.09.2022	4.00-5.00pm	Test	

HoD / ECE

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VAEC2206 - Ethical hacking

STUDENT REGISTRATION

S.No	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710420106001	BABU A	
2	710420106002	BABY INDIRA S	
3	710420106004	DHILEEPKUMAR S	
4	710420106005	DIVYA S	
5	710420106006	FIYARLIN SHARONE J	
6	710420106007	HARRIS RAJA X	
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29	710419106002	ARAVIND S E	
30	710419106006	DHIVAKARAN M	
31	710419106007	DINESH KUMAR S	
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33	710419106009	GAYATHRI M	
34	710419106010	HARIHARAN C	

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35	710419106011	INDHUPRIYA S	
36	710419106012	KAILESHWARAN S	
37	710419106013	KANNIKA C	
38	710419106014	KARTHIKA K	
39	710419106016	KAVIYA S	
40	710419106018	MANIKANDAN R	
41	710419106019	MATHUMITHA G	
42	710419106020	MERLIN ALFINA M	
43	710419106021	PAUL MOHAN M	
44	710419106023	PRIYANKA P	
45	710419106026	RITHICK K	
46	710419106027	SIBI CHAKRAVARTHI B	
47	710419106028	SOWBARNIKA V	
48	710419106029	SOWMIYA M	
49	710419106030	VASANTHA KUMAR K	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2206 - Ethical hacking

STUDENTS ATTENDANCE LIST

S.No	REGISTER NUMBER	NAME OF THE STUDENT	23.08.2022	26.08.2022	27.08.2022	29.08.2022	30.08.2022
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710420106001	BABU A					
2	710420106002	BABY INDIRA S					
3	710420106004	DHILEEPKUMAR S					
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39	710419106016	KAVIYA S					
40	710419106018	MANIKANDAN R					
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S.No	REGISTER NUMBER	NAME OF THE STUDENT	01.09.2022	02.09.2022	03.09.2022	07.09.2022	09.09.2022
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710420106001	BABU A					
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S.No	REGISTER NUMBER	NAME OF THE STUDENT	10.09.2022	13.09.2022	14.09.2022	15.09.2022	16.09.2022
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710420106001	BABU A					
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38	710419106014	KARTHIKA K					
39	710419106016	KAVIYA S					

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2206 - Ethical hacking

MULTIPLE CHOICE QUESTION

1. **Which of the following is not a common method used in ethical hacking?.**
a) Social engineering
b) Penetration testing
c) SQL injection
d) Denial of service attack
2. **What is a password cracker?**
a) A tool used to guess passwords through trial and error
b) A tool used to encrypt passwords for storage
c) A tool used to decrypt passwords for storage
d) A tool used to block password guessing attempts
3. **What is a vulnerability scanner?**
a) A tool used to identify weaknesses in a system or network
b) A tool used to exploit vulnerabilities in a system or network
c) A tool used to monitor network traffic
d) A tool used to block email spam
4. **What is a packet sniffer?**
a) A tool used to capture and analyze network traffic
b) A tool used to block network traffic
c) A type of malware that spreads through a network
d) A tool used to encrypt network traffic
5. **What is encryption?**
a) A technique used to hide the identity of a sender
b) A technique used to hide the location of a sender
c) A technique used to hide the existence of a message
d) A technique used to hide the contents of a message
6. **What is a backdoor?**
a) A tool used to remove malware from a system
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7. **What is a buffer overflow?.**
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8. **What is a virtual private network (VPN)?**
a) A device used to monitor network traffic
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9. What is an exploit?

(a) A type of malware that spreads through email attachments

(b) A tool used to scan a network for vulnerabilities

(c) A type of attack that floods a network with traffic

(d) A type of attack that takes advantage of a software vulnerability

10. What is a payload?

(a) The encrypted data transmitted over a network

(b) The traffic generated by a botnet

(c) The log files generated by a system

(d) The malicious code executed during an attack.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2206 - Ethical hacking

STUDENTS ASSESSMENT MARKS

S.No	REGISTER NUMBER	NAME OF THE STUDENT	MARKS
			10
1	710420106001	BABU A	9
2	710420106002	BABY INDIRA S	10
3	710420106004	DHILEEPKUMAR S	9
4	710420106005	DIVYA S	9
5	710420106006	FIYARLIN SHARONE J	10
6	710420106007	HARRIS RAJA X	10
7	710420106008	JAYA SRUTHI K	10
8	710420106009	JEEVITHA P	9
9	710420106010	JENIFA D	10
10	710420106011	JOSHUA THOMAS	9
11	710420106012	KARTHIKA P	9
12	710420106013	KAVIMANI G	9
13	710420106014	MALATHI M	10
14	710420106015	METREESHIYA S	10
15	710420106017	MYTHILI A	8
16	710420106018	NATARAJAN A	9
17	710420106019	NIVETHA S	10
18	710420106020	PAULABISHEK D	10
19	710420106021	PRADEEP S	9
20	710420106022	PRAVEENKUMAR N	9
21	710420106026	SANGAMITHRA T	10
22	710420106028	SERMASAMY J	8
23	710420106030	SHYAM PRAKASH S	9
24	710420106031	SWETHA S	9
25	710420106032	THARANI S	9
26	710420106033	VIGNESHWARAN A	10
27	710420106301	NAVEEN RAJ.P	9
28	710420106302	SANTHOSH.S	9
29	710419106002	ARAVIND S E	9
30	710419106006	DHIVAKARAN M	9
31	710419106007	DINESH KUMAR S	9
32	710419106008	GAYATHIRI VARSHINI R	10
33	710419106009	GAYATHRI M	10
34	710419106010	HARIHARAN C	9
35	710419106011	INDHUPRIYA S	10
36	710419106012	KAILESHWARAN S	9
37	710419106013	KANNIKA C	10
38	710419106014	KARTHIKA K	10
39	710419106016	KAVIYA S	10
40	710419106018	MANIKANDAN R	9
41	710419106019	MATHUMITHA G	10

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42	710419106020	MERLIN ALFINA M	9
43	710419106021	PAUL MOHAN M	9
44	710419106023	PRIYANKA P	9
45	710419106026	RITHICK K	10
46	710419106027	SIBI CHAKRAVARTHI B	9
47	710419106028	SOWBARNIKA V	10
48	710419106029	SOWMIYA M	9
49	710419106030	VASANTHA KUMAR K	9

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2206 - Ethical Hacking

MULTIPLE CHOICE QUESTION

Name : Stella.A
Register No. : 71041710601l
Year / Sem : III / V
Academic Year : 2019-20

1. Which of the following is not a common method used in ethical hacking?.
   a) Social engineering
   b) Penetration testing
   c) SQL injection
   d) Denial of service attack

2.
2. What is a password cracker?
a) A tool used to guess passwords through trial and error
b) A tool used to encrypt passwords for storage
c) A tool used to decrypt passwords for storage
d) A tool used to block password guessing attempts

3. What is a vulnerability scanner?
a) A tool used to identify weaknesses in a system or network
b) A tool used to exploit vulnerabilities in a system or network
c) A tool used to monitor network traffic
d) A tool used to block email spam

4. What is a packet sniffer?
a) A tool used to capture and analyze network traffic
b) A tool used to block network traffic
c) A type of malware that spreads through a network
d) A tool used to encrypt network traffic

5. What is encryption?
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9/10

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STUDENT FEEDBACK FORM

Name of the value added course: Ethical Hacking

Name of the student: P. Priyanka

Register Number: 71041910602 3

Year / semester: IV / VIII

Batch: 2019-2023

Course Coordinator: Mrs. S. Prabharathy

Academic Year: 2022-2023

Sl.No.	Criteria	Rating				
		Excellent	Good	Average	Satisfactory	Poor
1.	Course content		✓			
2.	Individual attention	✓				
3.	Level of the course	✓				
4.	Regularity and knowledge of faculty	✓				
5.	Coverage of syllabus	✓				
6.	Interaction		✓			
7.	Outcome	✓				
	Total	25	08			
	Remarks					

EXCELLENT-5 GOOD-4 AVERAGE-3 SATISFACTORY-2 POOR-1

P. Priyanka

Signature of the student

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POST EVENT REPORT

Course code	VACEC2206
Name of the course	Ethical Hacking
Duration of the course	30 Hours
Academic year	2022-2023
Period of the course	15 Days
Coordinator & Faculty handling the course	Mrs.S.Prabhavathy Ms.L.Pavithra
Number of the students registered	49
Number of the students completed	49
% of students completed the course	100%
Details of the course	The course details the usual remediation techniques practiced worldwide and provide an understanding of the relevant theoretical concepts. The current course will enable a student to: Develop understanding of integrated approaches to remediating contaminated sites.

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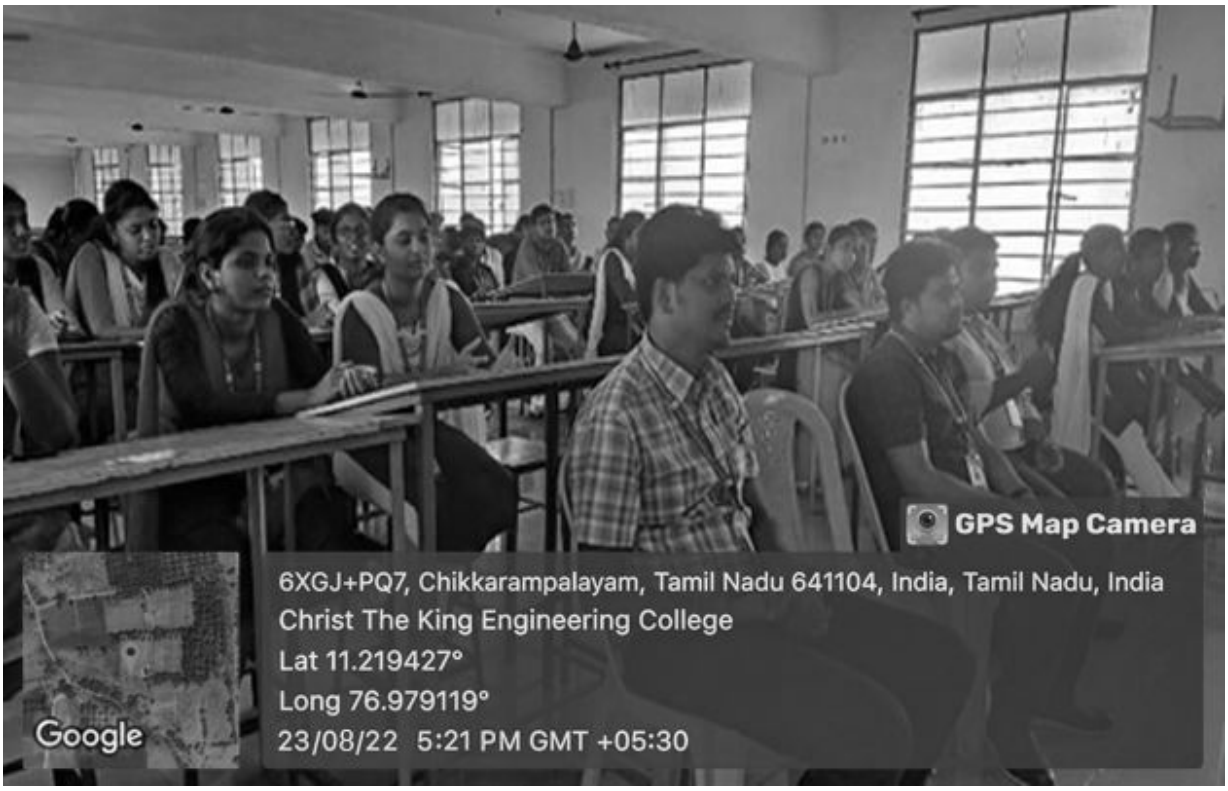

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DEPARTMENT OF ECE

Value Added Course on
ETHICAL HACKING

Certificate of Completion

This is to certify that ARAVIND S E (710419106002) *has successfully completed the* ***Value Added Course*** *on* ***"Ethical Hacking"*** *conducted by the Department of Electronics & Communication Engineering at Christ The King Engineering College from* ***23-08-2022 to 16-09-2022.***

HOD / ECE

PRINCIPAL

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DEPARTMENT OF ECE

Value Added Course on
ETHICAL HACKING

Certificate of Completion

This is to certify that K. JAYA SRUTHI [710420106008] *has successfully completed the* ***Value Added Course*** *on* ***"Ethical Hacking"*** *conducted by the Department of Electronics & Communication Engineering at Christ The King Engineering College from* ***23-08-2022 to 16-09-2022.***

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