



SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 1

CURRICULAR ASPECTS

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criterion 1	Curricular Aspects	100
--------------------	---------------------------	------------

1.1 Curricular Planning and Implementation(20)

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Table of contents

S.No	Description
1	Preface of the Course File
2	Review of Course File
3	Work Load
4	Course Plan
5	Content Beyond Syllabus
6	Rubrics Based Evaluation
7	Academic Audit Form
8	Student Feed Back on Faculty
9	Internal Assessment Schedule
10	Question Paper
11	Answer Key
12	Co Based Mark Entry
13	Internal Mark Sheet- Anna University Portal
14	Co Po Attainment



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PREFACE OF THE COURSE FILE

Batch : 2017-2021

Academic Year : 2020-2021 / ODD

Program : COMPUTER SCIENCE AND ENGINEERING

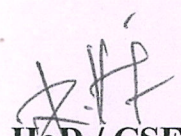
Year & Semester : 4th Year / 7th Semester

Course Code : CS8792 NBA Course Code: C402

Name of the Course : Cryptography and Network Security

Faculty In-charge : G.Sugapriya, AP/CSE

Signature of the Faculty In-charge


HOD / CSE


Dr. **S.THILAGAVATHI M.E., Ph.D.,**
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REVIEW OF COURSE FILE

(To be pasted on the inner side of the file-backside).(#-State Yes/No.)

S.N	Details Date:	R-I-*	R-II-*&	R-III- *&	R-IV- *&\$	R-V- *&\$@
1.	Preface of the course file	yes				
2.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	yes				
3.	Subject handlers of yesteryears					
4.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities	yes				
5.	Syllabus signed by staff & HoD	yes				
6.	Lecture Schedule signed by staff & HoD	yes				
7.	Course Committee meeting circular and minutes	yes				
8.	Identification of Curricular gap and Content Beyond the syllabus	yes				
9.	Self-study topics	yes				
10.	Previous AU Question papers	yes				
11.	Unit wise Q&A and Objective type questions	yes				
12.	Unit wise course material	yes				
13.	Assignment question paper with sample answer sheets and mark entry		yes			
14.	Tutorial question paper with key and mark entry		yes			
15.	Class test/IA test Q Paper with Key, sample answer papers and mark entry		yes			
16.	IA Test- result analysis-CAP-evidence-root cause analysis.		yes			
17.	Retest –Q paper-Attendance-marks		yes			
18.	AU Web portal entry sheet		yes			
19.	Very poor performance in first two tests-action taken.-communication to parents-evidence					
20.	Absence for two tests-action taken-communication to parents-evidence.					
21.	Indiscipline of student reported, if any					
22.	Special class/coaching class/remedial class/attendance-CAP					
23.	Conduct of Seminar, Quizzes - proof					
24.	Content beyond the syllabus - proof			yes		
25.	Student feedback on faculty			yes		
26.	Course end survey					
27.	Internal Assessment sheet			yes		
28.	AU question paper with students feedback					
29.	Discrepancy of the question paper and correspondence, if any					
30.	AU result analysis-Details of arrear students.					
31.	AU grade sheet					yes
32.	CO – PO & PSO attainment sheet					yes
	Signature of Course handling faculty					
	Signature of HoD/CSE					

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**

Kaikkurchi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI - 622 303

ACADEMIC YEAR (2020-21) ODD SEMESTER

DEPARTMENT OF CSE & IT

INDIVIDUAL STAFF WORKLOAD

S. NO	STAFF NAME	SUBJECT CODE & NAME	YEAR & DEPT	NO OF HOURS	TOTAL HOURS
1.	Ms.P.Subha	CS8792- Cloud Computing	IV CSE & IT	05	13
		EC8552- Computer Architecture and Organization	III ECE	05	
		CS8711-Cloud Computing Laboratory	IV CSE & IT	03	
2.	Ms.G.Bhuvaneswari	MG8591-Principles of Management	IV CSE	05	13
		GE8151- Problem Solving and Python Programming	I YEAR	05	
		GE8161-Problem Solving and Python Programming Laboratory	I YEAR	03	
3.	Ms.S.Jayapatha	CS8079-Human Computer Interaction	IV CSE &IT	05	13
		CS8501- Theory of Computation	III CSE	05	
		CS8383- Object Oriented Programming Laboratory	II CSE	03	
4.	Ms.G.Sugapriya	CS8791- Cryptography and Network Security	IV CSE &IT	05	13
		CS8391-Data Structures	II CSE	05	
		CS8381- Data Structures Laboratory	II CSE	03	

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**
Kaikkurichi - 622 303, Pudukkottai Dt.

S. NO	STAFF NAME	SUBJECT CODE & NAME	YEAR & DEPT	NO OF HOURS	TOTAL HOURS
5.	Ms.G.Sasikala	CS8392-Object Oriented Programming	II CSE	05	13
		CS8392-Object Oriented Programming	III EEE	05	
		CS8383- Object Oriented Programming Laboratory	III EEE	03	
6.	Ms.K.Priyanka	OCS752-Introduction to C programming	IV EEE	05	13
		GE8151- Problem Solving and Python Programming	I YEAR	05	
		GE8161-Problem Solving and Python Programming Laboratory	I YEAR	03	
7	Mr.R.Vijay	IT8075-Software Project Management	IV CSE & IT	05	13
		CS8592- Object Oriented Analysis and Design	III CSE	05	
		IT8761- Security Laboratory	IV CSE & IT	03	
8	Mrs.A.Nushrath Fathima	CS8591- Computer Networks	III CSE	05	13
		EC8702-Ad hoc and Wireless Sensor Networks	IV ECE	05	
		CS8581- Networks Laboratory	III CSE	03	
9	Ms.K.Priya	EC8393-Fundamentals of Data Structures In C	II ECE	05	08
		EC8381- Fundamentals of Data Structures in C Laboratory	II ECE	03	
10	Mrs.V.Yogam	EC8551- Communication Networks	III ECE	05	11
		EC8563- Communication Networks Laboratory	III ECE	03	
		CS8582- Object Oriented Analysis and Design Laboratory	III CSE	03	

HOD/CSE

PRINCIPAL

Dr. S.THILAGAVATHI M.E.,Ph.D.,

PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
KAIKKURUCHI, PUDUKKOTTAI.
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN

Subject code : CS8792	Branch/Year/Sem/Section: B.E CSE/IV/VII
Subject Name: Cryptography and Network Security	Batch : 2017-2021
Staff Name : G.Sugapriya, AP/CSE	Academic year : 2020-2021

COURSE OBJECTIVES

- To understand Cryptography Theories, Algorithms and Systems.
- To understand necessary Approaches and Techniques to build protection mechanisms in order to secure computer networks.

TEXTBOOKS:

T1. William Stallings, Cryptography and Network Security: Principles and Practice, PHI 3rd Edition, 2006.

REFERENCES:

- R1.** C K Shyamala, N Harini and Dr. T R Padmanabhan: Cryptography and Network Security, Wiley India Pvt.Ltd
- R2.** Behrouz A. Forouzan, Cryptography and Network Security, Tata McGraw Hill 2007.
- R3.** Charlie Kaufman, Radia Perlman, and Mike Speciner, Network Security: PRIVATE

WEB SOURCES:

- W1.** <https://cns.edu>
- W2.** <https://justcryptography.com> > rsa-algorithm
- W3.** <https://www.softwaretestinghelp.com> > aes-encryption-algorithm
- W4.** www.educba.com/des-algorithm/

TEACHING METHODOLOGIES:

- BB - BLACK BOARD
- PPT - POWER POINT PRESENTATION
- VIDEO


Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.

CS8792

CRYPTOGRAPHY AND NETWORK SECURITY

L T P C
3 0 0 3

UNIT I INTRODUCTION

9

Security trends - Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies - Model of network security – Security attacks, services and mechanisms – OSI security architecture – Classical encryption techniques: substitution techniques, transposition techniques, steganography- Foundations of modern cryptography: perfect security – information theory – product cryptosystem – cryptanalysis.

UNIT II SYMMETRIC KEY CRYPTOGRAPHY

9

Mathematics Of Symmetric Key Cryptography: Algebraic structures - Modular arithmetic-Euclid's algorithm- Congruence and matrices - Groups, Rings, Fields- Finite fields- Symmetric Key Ciphers: SDES – Block cipher Principles of DES – Strength of DES – Differential and linear cryptanalysis - Block cipher design principles – Block cipher mode of operation – Evaluation criteria for AES – Advanced Encryption Standard - RC4 – Key distribution.

UNIT III PUBLIC KEY CRYPTOGRAPHY

9

MATHEMATICS OF ASYMMETRIC KEY CRYPTOGRAPHY: Primes – Primality Testing – Factorization – Euler's totient function, Fermat's and Euler's Theorem - Chinese Remainder Theorem – Exponentiation and logarithm - **ASYMMETRIC KEY CIPHERS:** RSA cryptosystem – Key distribution – Key management – Diffie Hellman key exchange - ElGamal cryptosystem – Elliptic curve arithmetic-Elliptic curve cryptography.

UNIT IV MESSAGE AUTHENTICATION AND INTEGRITY

9

Authentication requirement – Authentication function – MAC – Hash function – Security of hash function and MAC – SHA – Digital signature and authentication protocols – DSS- Entity Authentication: Biometrics, Passwords, Challenge Response protocols- Authentication applications - Kerberos, X.509

UNIT V SECURITY PRACTICE AND SYSTEM SECURITY

9

Electronic Mail security – PGP, S/MIME – IP security – Web Security - **SYSTEM SECURITY:** Intruders – Malicious software – viruses – Firewalls.

TOTAL:45 P PERIODS

Signature of the Faculty in-charge

Dr. S. THILAGAVATHI M.E., Ph.D.,

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 308, Pudukkottai D.

HOD / CSE
HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 308



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURUCHI, PUDUKKOTTAI
 DEPARTMENT OF INFORMATION TECHNOLOGY

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Concept of Number theory
- Fundamental ideas of symmetric key cryptography
- Distribution of keys

UNIT – III PUBLIC KEY CRYPTOGRAPHY (9)

1.	Primes – Primality Testing – Factorization	T1	236 – 238 & 243-244	BB	1	19
2.	Euler’s totient function, Fermat’s and Euler’s Theorem	T1	239 - 242	BB	1	20
3.	Chinese Remainder Theorem – Exponentiation and logarithm	T1	245 -251	BB	1	21
4.	Principles of cryptosystem -RSA cryptosystem	T1	259 - 277	BB	1	22
5.	Key distribution	T1	211- 219	BB	1	23
6.	Key management	T1	286-292	BB	1	24
7.	Diffie Hellman key exchange	T1	293- 296	BB	1	25
8.	ElGamal cryptosystem	R2	286-289	BB	1	26
9.	Elliptic curve arithmetic- Elliptic curve cryptography.	T1	297- 307	BB	1	27
10.	Authentication schemes to simulate Network security tool using Firewalls.	W1	-	BB	1	28

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Understand the how to identify Prime numbers,
- About RSA Encryption
- In detail about key distribution, management & exchange, ECC

UNIT – IV MESSAGE AUTHENTICATION AND INTEGRITY (9)

1.	Authentication requirement – Authentication function	T1	312- 323	BB	1	29
2.	MAC	T1	324-326	BB & VIDEO	1	30
3.	Hash function	T1	328-334	BB/PPT	1	31
4.	Security of hash function and MAC	T1	335 -337	BB	1	32
5.	SHA	T1	357-364	BB	1	33
6.	Digital signature and authentication protocols	R2	357-362	BB/PPT	1	34

(Signature)
Dr. S.THILAGAVATHI M.E.,Ph.D.,
 PRINCIPAL



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURUCHI, PUDUKKOTTAI
 DEPARTMENT OF INFORMATION TECHNOLOGY

Topic No	Topic Name	Books For reference	Page No	Teaching Methodology	No of periods required	Cumulative periods
UNIT I INTRODUCTION						(9)
1.	Security trends	T1	39-49	BB	1	1
2.	Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies	T1	33-39	BB	1	2
3.	Model of network security, Security attacks, services and mechanisms	T1	55-77	BB	1	3
4.	OSI security architecture	T1	77-83	BB	2	5
5.	Classical encryption techniques: substitution techniques, transposition techniques, steganography	T1	140-146	BB/PPT	1	6
6.	Foundations of modern cryptography: perfect security	T1	132-140	BB/PPT	1	7
7.	Information theory	T1	146-153	BB	1	8
8.	Product cryptosystem, Cryptanalysis.	T1	272-278	BB	1	9

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Basics of the information security.
- Concept of Information theory.
- Necessary of cryptanalysis.

UNIT II SYMMETRIC KEY CRYPTOGRAPHY

(9)

1.	Finite fields and number theory: Groups, Ring, Fields, Finite Fields	T1	140-146	BB	1	10
2.	Modular arithmetic – Euclids algorithm	T1	132-140	BB	1	11
3.	Congruence and matrices	T1	141-147	BB& VIDEO	1	12
4.	SDES	T1	92-120	BB/PPT	1	13
5.	Block cipher Differential and linear cryptanalysis - Block cipher design principles – Block cipher mode of operation	T1	222-238	BB/PPT	1.5	14.5
6.	Advanced Encryption Standard	T1	171-202	BB/PPT	1.5	16
7.	Triple DES	T1	217-226	BB/PPT	1	17
8.	RC4 , Key distribution	R2	401-414	BB	1	18

Dr. S. THILAGAVATHI M.E., Ph.D.,

PRINCIPAL

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

Kaikkuruchi - 622 303, Pudukkottai Dt.

Unit – V		SECURITY PRACTICE AND SYSTEM SECURITY				(9)	
1.	Electronic Mail security	R2	429-431	BB	1	38	
2.	PGP, S/MIME	R2	432-459	BB	2	40	
3.	IP security	R2	500-531	BB	1	41	
4.	Web security	T1	527 - 559	BB	2	43	
5.	Intruders	T1	566 - 580	BB	1	44	
6.	Viruses	T1	598 – 612	BB	1	45	
7.	Firewalls	T1	616 - 632	BB	1	46	

LEARNING OUTCOME:
At the end of unit , the students will be able to

- Understand the security about e-mail, PGP, IP, Web
- About Intruders, Viruses, Firewalls

COURSE OUTCOMES:

At the end of the course, the student should be able to:

- Understand the fundamentals of networks security, security architecture, threats and vulnerabilities.
- Apply the different cryptographic operations of symmetric cryptographic algorithms.
- Apply the different cryptographic operations of public key cryptography.
- Gain Knowledge about the Asymmetric Key Ciphers.
- Apply the various Authentication schemes to simulate different applications.
- Understand various Security practices and System security standards.


Dr. S.THILAGAVATHI M.E.,P.D.,
 PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.


INTERNAL ASSESSMENT DETAILS

ASSESSMENT NUMBER	I	II	III
UNIT NO	1,2	3,4	5

ASSIGNMENT DETAILS

ASSIGNMENT NUMBER	I	II
Date of Submission	30.08.2021	29.09.2021

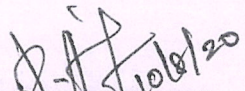
ASSIGNMENT NUMBER	DESCRIPTIVE QUESTIONS/TOPIC (Minimum of 8 Pages)
I	1. Substitution Techniques. 2. Block diagram for DES, Block Cipher Mode of Operation
II	1. RSA cryptosystem and its problems 2. Diffie Hellman key exchange and its problems


PREPARED BY
G.SUGAPRIYA, AP/CSE


Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.


APPROVED BY

PRINCIPAL
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT


VERIFIED BY
HoD/CSE

HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Identification of Curricular Gap & Content Beyond Syllabus(CBS)

Name of the Faculty :

Course Code & Name: CS8792 CRYPTOGRAPHY AND NETWORK SECURITY

Degree & Program :B.E. /CSE Semester: VII Academic Year: 2020 -2021 /ODD

I. Mapping of Course Outcomes with POs & PSOs.(before CBS)

Table.1 Mapping of COs, C, PSOs with POs - before CBS.

CO/PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C402.1	2	1	1	-	-	-	-	-	-	-	-	-	3	2	-
C402.2	2	1	1	-	1	-	-	-	-	-	-	-	3	2	-
C402.3	3	2	2	1	1	-	-	-	-	-	-	-	2	3	-
C402.4	3	2	2	1	-	-	-	-	-	-	-	-	2	3	-
C402.5	3	2	2	-	3	-	-	-	-	-	-	-	2	2	-
C402.6	3	2	2	1	3	-	-	-	-	-	-	-	2	2	-
CS8792	2	1	1	-	2	-	-	-	-	-	-	-	3	2	-

II. Identification of content beyond syllabus.

Table.2 Identification of content beyond syllabus

Details of Content Beyond Syllabus(CBS) added	POs strengthened/ vacant filled	CO/Unit
Authentication schemes to simulate Network security tool using Firewalls.	PO5(1) Vacant filled	C402.4/ IV

III. Mapping of Course Outcomes with POs & PSOs. (After CBS)

Table.3 Mapping of COs, C, PSOs with POs- after CBS.

CO/PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C402.1	2	1	1	-	-	-	-	-	-	-	-	-	3	2	-
C402.2	2	1	1	-	1	-	-	-	-	-	-	-	3	2	-
C402.3	3	2	2	1	1	-	-	-	-	-	-	-	2	3	-
C402.4	3	2	2	1	*1	-	-	-	-	-	-	-	2	3	-
C402.5	3	2	2	-	3	-	-	-	-	-	-	-	2	2	-
C402.6	3	2	2	1	3	-	-	-	-	-	-	-	2	2	-
CS8792	2	1	1	-	2	-	-	-	-	-	-	-	3	2	-

Dr. S.THILAGAVATHI M.E., Ph.D.,

PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkotta Dt.

TOPICS BEYOND THE SYLLABUS

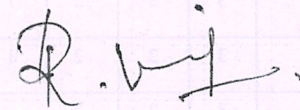
Authentication schemes to simulate Network security tool using Firewalls.

REASON BEYOND THE SELECTION

Facilitate the students to be aware of Network security simulation tool using Firewalls.

REFERENCE LINK

https://www.researchgate.net/publication/38112085_Network_Security_Using_Firewalls/link/0ffc26910cf24b07a41e757b/download



HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.



Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Assignment Answer Paper

Name of the Student : *BAVANI V*

AU Register Number: *912617104003*

Assignment – 01			Date of Issue:	27.08.2020	Marks	10
Course code	CS8792	Course Title	Cryptography and network security			
Year	IV	Semester	VII	Date of Submission:	29.08.2020	

Q.No	Answers	CO
1.	1. Describe about Substitution Techniques. 2. Explain in detail about DES represent in , Block Cipher Mode of Operation	C402.2

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	6
Presentation Quality	2	1
Timely submission	2	2
Total marks	10	9

[Signature]
SIGNATURE OF THE FACULTY IN-CHARGE

[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

[Signature]
HOD/CSE
HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

IQAC Academic Audit Form

ACADEMIC YEAR: 2020-2021 ODD SEMESTER

Name of Department : CSE Year / Sem : IV / VII No. of Students Registered : 21

Details of Examination : CT - 1 / CT - 2 / CT - 3 / Model Test

S.No.	Course Code	List of Reg.No Verified	Course Log Book Verified (Y/N)	Course File Verified (Y/N)	No of students Attended	No of Absentees	No of Failures	Pass %	Remarks
1.	MG8591	912617104003	Yes	Yes	21	Nil	Nil	100%	-
2.	CS8792	912617104005	Yes	Yes	21	Nil	Nil	100%	-
3.	CS8791	912617104011	Yes	Yes	21	Nil	Nil	100%	-
4.	DEC374	912617104018	Yes	Yes	21	Nil	Nil	100%	-
5.	CS8081	912617104303	Yes	Yes	21	Nil	Nil	100%	-
6.	GE8074	912617104001	Yes	Yes	21	Nil	Nil	100%	-

Verified by

External Member Name and Signature:

J. SATHIYARAJ - J. Sathiyaraj

Internal Member Name and Signature:

G. SUGAPRIYA - G. Sugapriya

Overall Remarks:

HOD, CSE

IOAC Coordinator 9/10/20

Principal

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, Affiliated to Anna University, Chennai, India)

Kaikkurichi, Pudukkottai – 622 303

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEEDBACK ON FACULTY


S.NO.	DESCRIPTION	SCORED OUT OF 4	SCORED OUT OF 100
1.	Syllabus coverage as prescribed by university	3.76	94.1
2.	Technical knowledge of the teacher	3.71	92.8
3.	Teacher's communication skill	3.62	90.4
4.	Regularity in taking classes	3.57	89.2
5.	Helping the students in conducting the experiment through set of instruction and demonstrations	3.71	92.8
6.	Tendency of inviting opinion and question on subject matter from students	3.67	92.6
7.	Knowledge of the Teacher in latest development of field	3.67	92.6
8.	Perfectness of valuation	3.71	92.8
OVERALL SCORE		3.68	92.16

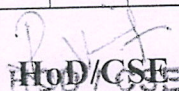

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

REPORT SHEET

S.NO	REG.NO	NAME	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1.	912617104001	ADAIKKALAJAYASRI J	4	4	4	3	3	4	4	4
2.	912617104002	AKILA S	4	3	4	3	4	4	3	4
3.	912617104003	BAVANI V	4	4	3	3	4	4	4	3
4.	912617104005	INDUMATHI S	3	3	4	4	3	4	3	4
5.	912617104006	KARTHIKA S	4	4	4	4	4	4	4	4
6.	912617104007	KAYATHRI K	4	3	4	3	3	3	3	3
7.	912617104008	MULLAIYARASI R	3	4	4	4	4	3	4	4
8.	912617104009	NISHADEVI G	4	3	4	4	3	3	4	4
9.	912617104010	PARAMESHWARI S	4	4	4	3	4	4	4	4
10.	912617104011	PERIYANAYAGI M	4	4	4	4	3	4	4	4
11.	912617104012	PRIYADARSHINI S	3	4	4	4	4	3	3	4
12.	912617104013	PRIYADHARSHINI C	4	4	3	4	4	4	4	4
13.	912617104014	PRIYATHARSHINI V	4	4	3	3	3	4	4	3
14.	912617104015	RIZWANA PARVEEN Z	3	3	4	4	4	3	3	4
15.	912617104017	SEETHALAKSHMI S	4	4	4	4	4	4	4	4
16.	912617104018	VAHINI D	4	4	4	3	4	4	4	4
17.	912617104019	VINOTHA P	4	3	3	4	4	4	3	3
18.	912617104301	JAYA PREETHA C	4	4	4	3	4	3	3	4
19.	912617104302	RAJA LAKSHMI R	4	4	3	4	4	4	4	3
20.	912617104303	SANGEETHA S	4	4	3	4	4	4	4	4
21.	912617104701	NAVINA N	3	4	4	3	4	3	4	3
AVERAGE			3.76	3.71	3.62	3.57	3.71	3.67	3.67	3.71
PERCENTAGE			94.1	92.8	90.4	89.2	92.8	91.6	91.6	92.8

FACULTY INCHARGE


Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
 SRI BHARATHI ENGINEERING
 COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.


HoD/CSE
 SRI BHARATHI ENGINEERING
 COLLEGE FOR WOMEN
 KAIKKURICHI,
 PUDUKKOTTAI - 622 303

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURCHI, PUDUKKOTTAI - 622 303.

Circular

Date: 17.09.2020

The second cycle test will be conducted through online from 24.09.2020 to 26.09.2020 for the III semester (II Year) and V Semester (III year) and VII semester (IV Year) students.

The following instructions are to be followed by the faculty members.


- Total marks for which the question paper to be set will be for 60 marks.
- It is the responsibility of the question paper to be setter to create online Google form /multiple Choice Questions (MCQ) and forward the link to the exam coordinators Mr.J.Sathyaraj, AP/EEE Mrs.G.Bhvaneswari, AP/CSE on or before 21.09.2020.
- Question Pattern-Part A-30 Single mark MCQ questions and Part B-15 two mark MCQ questions.
- All Staff members are requested to enable the shuffle question order option and limit to one response option in Google form settings.
- The exam coordinators (exam cell) are requested to make necessary arrangements for conducting the test.
- Faculty members are requested to take the report on Google forms and give the marks to the students on or before 28.09.2020.

Cc:

- All faculty
- Exam cell
- Office file


PRINCIPAL

17/09/20

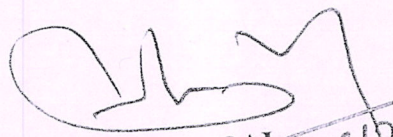

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI - 622 303.

Date: 17.09.2020

The second cycle test will be conducted through online from 24.09.2020 to 26.09.2020 for the VII semester (IV Year) students for 60 marks as per the timetable given below. Students are directed to prepare well and score good marks.

Date	10.00 am - 11.30 am	02.00 pm - 03.30pm
24.09.2020	CE8701-Estimation, Costing and Valuation Engineering (CIVIL) IT8075-Software Project Management (CSE/IT) EC8701-Antennas and Microwave Engineering (ECE) EE8702-Power System Operation and Control (EEE)	CE8702- Railways, Airports, Docks and Harbour Engineering (CIVIL) CS8791-Cryptography and Network Security (CSE/IT) GE8071-Disaster Management (ECE) EE8701-High Voltage Engineering (EEE)
25.09.2020	CE8703-Structural Design and Drawing (CIVIL) CS8792- Cloud Computing (CSE/IT) OCS752-Introduction to C Programming (ECE/EEE)	MG8591- Principles of Management (CSE/IT) EC8791-Embedded and Real Time Systems (ECE) EE8010-Power System Transients (EEE)
26.09.2020	EN8591-Municipal Solid Waste Management (CIVIL) OCE754-Medical Electronics (CSE/IT) EC8751-Optical Communication (ECE) EE8703-Renewable Energy Systems (EEE)	OTT752-Textile Effluent Treatments (CIVIL) EC8702-Adhoc and Wireless Sensor Networks (ECE) EI8075-Fibre Optics and Laser Instrumentation (EEE) CS8079-Human Computer Interaction (CSE/IT)


 PRINCIPAL
 17/09/20

- Cc:
- All IV year B.E Classes
 - All faculty
 - Exam cell
 - Notice Board
 - Office file


Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
 Kaikkurichi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
KAIKKURICHI, PUDUKKOTTAI- 622 303.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADAMIC YEAR -ODD SEM (2020-2021)
CS8792 CYPTOGRAPHY AND NETWORK SECURITY
CYCLE TEST-II
PART A(30*1=30)

SL.NO	QUESTIONS	COURSE OUTCOME
1.	What is the general equation for elliptic curve systems? a) $y^3+b_1xy+b_2y=x^3+a_1x^2+a_2x+a_3$ b) $y^3+b_1x+b_2y=x^2+a_1x^2+a_2x+a_3$ c) $y^2+b_1xy+b_2y=x^3+a_1x^2+a_2$ d) $y^2+b_1xy+b_2y=x^3+a_1x^2+a_2x+a_3$	C402.3
2.	. In Singular elliptic curve, the equation $x^3+ax+b=0$ does ____ roots. a) does not have three distinct b) has three distinct c) has three unique d) has three distinct unique	C402.3
3.	How many real and imaginary roots does the equation $y^2=x^3-1$ have a) 2 real, 1 imaginary b) all real c) all imaginary d) 2 imaginary, 1 real	C402.3
4.	. How many real and imaginary roots does the equation $y^2=x^3-4x$ have a) 2 real, 1 imaginary b) all real c) all imaginary d) 2 imaginary, 1 real	C402.3
5.	In the elliptic curve group defined by $y^2= x^3- 17x + 16$ over real numbers, what is $P + Q$ if $P = (0,-4)$ and $Q = (1, 0)$? a) (15, -56) b) (-23, -43) c) (69, 26) d) (12, -86)	C402.3
6.	In the elliptic curve group defined by $y^2= x^3- 17x + 16$ over real numbers, what is $2P$ if $P = (4, 3.464)$? a) (12.022, -39.362) b) (32.022, 42.249) c) (11.694, -43.723) d) (43.022, 39.362)	C402.3
7.	Elliptic curve cryptography follows the associative property.” a) True b) False	C402.3

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt

8.	. "In ECC, the inverse of point $P=(x1, y1)$ is $Q = (-x1, y1)$. " a) True b) False	C402.3
9.	On adding the two points $P(4,2)$ and $Q(10, 6)$ in the elliptic curve $E11(1,1)$ we get a) (9,3) b) (6,4) c) (7,5) d) (2,8)	C402.3
10.	If $P = (1,4)$ in the elliptic curve $E13(1, 1)$, then $4P$ is a) (4, 2) b) (7, 0) c) (5, 1) d) (8, 1)	C402.3
11.	Multiply the point $P=(8, 1)$ by a constant 3, thus find $3P$, in the elliptic curve $E13(1, 1)$ a) (10,7) b) (12,6) c) (11,1) d) (9,8)	C402.3
12.	Bob selects $E67(2, 3)$ as the elliptic curve over $GF(p)$. He selects $e1 = (2, 22)$ and $d = 4$. Then he calculates $e2 = d \times e1$. What is the value of $e2$? a) (23,49) b) (16,55) c) (12,19) d) (13,45)	C402.3
13.	Bob selects $E67(2, 3)$ as the elliptic curve over $GF(p)$. He selects $e1 = (2, 22)$ and $d = 4$. Then he calculates $e2 = d \times e1$ and the publicly announces the tuple $(E, e1, e2)$. Now, Alice wants to send the plaintext $P = (24, 26)$ to Bob and she selects $r = 2$. What are $C1$ and $C2$? a) $C1=(35,1)$; $C2 =(21,44)$ b) $C1=(44,21)$; $C2 =(1,35)$ c) $C1=(44,21)$; $C2 =(44,21)$ d) $C1=(21,44)$; $C2 =(35,1)$	C402.3
14.	$P = C1 - (d \times C2)$ Is this above stated formula true with respect to ECC? a) True b) False	C402.3
15.	. For the point $P(11, 2)$ defined in the curve $E13(1, 1)$. What is $-P$? a) (12,4) b) (10,7) c) (11,11) d) (11,12)	C402.3
16.	For the point $P(7, 0)$ defined in the curve $E13(1, 1)$. What is $-P$? a) (7,1)	C402.3

	b) (8,12) c) (8,1) d) (7,0)	
17.	Public key encryption/decryption is not preferred because a) it is slow b) it is hardware/software intensive c) it has a high computational load d) all of the mentioned	C402.3
18.	. Which one of the following is not a public key distribution means? a) Public-Key Certificates b) Hashing Certificates c) Publicly available directories d) Public-Key authority	C402.3
19.	What is the PGP stand for? a) Permuted Gap Permission b) Permuted Great Privacy c) Pretty Good Permission d) None of the mentioned	C402.3
20.	PGP makes use of which cryptographic algorithm? a) DES b) AES c) RSA d) Rabin	C402.3
21.	USENET is related to which of the following Public Key distribution schemes? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4
22.	Which of the following public key distribution systems is most secure? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4
23.	Which systems use a timestamp? i) Public-Key Certificates ii) Public announcements iii) Publicly available directories iv) Public-Key authority a) i) and ii) b) iii) and iv) c) i) and iv) d) iv) only	C402.4
24.	Which of these systems use timestamps as an expiration date? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4

Dr. S. THILAGAVATHI M.E., Ph.D.

PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt.

25.	Which system uses a trusted third party interface? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4
26.	Publicly Available directory is more secure than which other system? a) Public-Key Certificates b) Public announcements c) Public-Key authority d) None of the mentioned	C402.4
27.	The registers 'a' and 'e' involve a) Permutation and substitution both b) Only Permutation c) Only substitution d) Don't undergo any operations	C402.4
28.	Among the registers 'a' to 'h' how many involve permutation in each round? a) 4 b) 5 c) 6 d) 3	C402.4
29.	What does the figure represent? a) Compression function b) Message digest generation using SHA c) Elementary SHA operation for single round d) Processing of a single 1024 bit block	C402.4
30.	The output of the N 1024-bit blocks from the Nth stage is a) 512 bits b) 1024 bits c) N x 1024bits d) N x 512 bits	C402.4

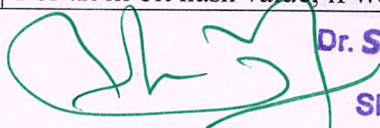
PART B(15*2=30)

31.	In the SHA-512 processing of a single 1024- bit block, the round constants are obtained a) by taking the first 64 bits of the fractional parts of the cube roots of the first 80 prime numbers b) by taking the first 64 bits of the fractional parts of the cube roots of the first 64 prime numbers c) by taking the first 64 bits of the fractional parts of the square roots of the first 80 prime numbers d) by taking the first 64 bits of the non-fractional parts of the first 80 prime numbers	C402.5
32.	What is the size of W (in bits) in the SHA-512 processing of a single 1024- bit block?	C402.5

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**
Pudukkotta: Dt.

	<ul style="list-style-type: none"> a) 64 b) 128 c) 512 d) 256 	
33.	<p>In SHA-512, the registers 'a' to 'h' are obtained by taking the first 64 bits of the fractional parts of the cube roots of the first 8 prime numbers.</p> <ul style="list-style-type: none"> a) True b) False 	C402.5
34.	<p>The big-endian format is one in which</p> <ul style="list-style-type: none"> a) the least significant byte is stored in the low-address byte position b) the least significant byte is stored in the high-address byte position c) the most significant byte is stored in the high-address byte position d) the most significant byte is stored in the low-address byte position 	C402.5
35.	<p>The message in SHA-512 is padded so that it's length is</p> <ul style="list-style-type: none"> a) 832 mod 1024 b) 768 mod 1024 c) 960 mod 1024 d) 896 mod 1024 	C402.5
36.	<p>What is the maximum length of the message (in bits) that can be taken by SHA-512?</p> <ul style="list-style-type: none"> a) 2128 b) 2256 c) 264 d) 2192 	C402.5
37.	<p>In SHA-512, the message is divided into blocks of size ___ bits for the hash computation.</p> <ul style="list-style-type: none"> a) 1024 b) 512 c) 256 d) 1248 	C402.5
38.	<p>What is the number of round computation steps in the SHA-256 algorithm?</p> <ul style="list-style-type: none"> a) 80 b) 76 c) 64 d) 70 	C402.5
39.	<p>SHA-1 produces a hash value of</p> <ul style="list-style-type: none"> a) 256 bits b) 160 bits c) 180 bits d) 128 bits 	C402.5
40.	<p>Which attack requires the least effort/computations?</p> <ul style="list-style-type: none"> a) Pre-image b) Second Pre-image c) Collision d) All required the same effort 	C402.5
41.	<p>For an m bit hash value, if we pick data blocks at random we can expect</p>	C402.5


Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
 SRI BHARATHI ENGINEERING
 COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai, TN

	to find two data blocks with the same hash value within ____ attempts. a) 2^m b) $2^{(m-1)}$ c) $2^{(m/2)}$ d) $(2^m) - 1$	
42.	For an m-bit value, the adversary would have to try ____ values to generate a given hash value h. a) 2^m b) $2^{(m-1)}$ c) $2^{(m/2)}$ d) $(2^m) - 1$	C402.5
43.	A function that is second pre-image resistant is also collision resistant. a) True b) False	C402.5
44.	The second pre-image resistant property is a) It is computationally infeasible to find any pair (x, y) such that $H(x) = H(y)$ b) For any given block x, it is computationally infeasible to find y not equal to x, with $H(y) = H(x)$ c) For any given hash value h it is computationally infeasible to find y such that $H(y) = h$ d) None of the mentioned	C402.5
45.	Consider the following properties Variable Input size Fixed Output size Efficiency Pre image resistant Second Pre image Resistant Collision resistant Pseudo randomness A has function that satisfies the first ____ properties in the above table is referred to as a weak hash function. a) 5 b) 4 c) 3 d) 2	C402.5

SIGNATURE OF THE FACULTY IN-CHARGE

HOD / CSE

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.

HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.

ANSWER KEY

SL.NO	ANSWER	SL.NO	ANSWER	SL.NO	ANSWER	SL.NO	ANSWER	SL.NO	ANSWER
1.	D	11.	A	21.	B	31.	A	41.	B
2.	A	12.	D	22.	A	32.	A	42.	B
3.	D	13.	A	23.	C	33.	B	43.	B
4.	B	14.	B	24.	A	34.	D	44.	A
5.	A	15.	C	25.	A	35.	D	45.	B
6.	A	16.	D	26.	B	36.	A		
7.	A	17.	D	27.	C	37.	A		
8.	A	18.	B	28.	C	38.	C		
9.	B	19.	D	29.	C	39.	B		
10.	D	20.	C	30.	A	40.	C		


Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2020-2021 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-II

SUBJECT CODE & TITLE: CS8792 CRYPTOGRAPHY AND NETWORK SECURITY
YEAR/SEM: IV/VII **MONTH & YEAR: SEP 2020**

S.NO	REG NO	STUDENT NAME	C402.3 (25)	C402.4 (10)	C402.5 (15)	TOTAL (50)	TOTAL (100)
1.	912617104001	ADAIKKALAJAYASRI J	21	8	14	43	85
2.	912617104002	AKILA S	25	7	14	46	89
3.	912617104003	BAVANI V	24	9	15	48	95
4.	912617104005	INDUMATHI S	25	7	13	45	89
5.	912617104006	KARTHIKA S	26	6	12	44	87
6.	912617104007	KAYATHRI K	24	8	13	45	89
7.	912617104008	MULLAIYARASI R	24	7	14	45	90
8.	912617104009	NISHADEVI G	22	7	13	42	84
9.	912617104010	PARAMESHWARI S	22	7	11	40	80
10.	912617104011	PERIYANAYAGI M	23	6	11	40	80
11.	912617104012	PRIYADARSHINI S	21	8	13	42	84
12.	912617104013	PRIYADHARSHINI C	24	8	13	45	89
13.	912617104014	PRIYATHARSHINI V	24	7	14	45	90
14.	912617104015	RIZWANA PARVEEN Z	25	7	14	46	92
15.	912617104017	SEETHALAKSHMI S	22	8	13	43	85
16.	912617104018	VAHINI D	22	8	14	44	88
17.	912617104019	VINOTHA P	24	7	14	45	89
18.	912617104301	JAYA PREETHA C	24	7	15	46	91
19.	912617104302	RAJA LAKSHMI R	24	6	13	43	85


Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

20.	912617104303	SANGEETHA S	23	8	15	46	91
21.	912617104701	NAVINA N	23	8	15	46	91

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
						2	14	5

Total No.of Candidates Present	21
Total No.of Candidates Absent	NIL
Total No.of Students Pass	21
Total No. of Students Fail	NIL
Percentage of Pass	100%

SIGNATURE OF THE FACULTY IN-CHARGE

HOD / CSE

PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

Dr. **S.THILAGAVATHI M.E., Ph.D.,**
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.



**SRI BHARATHI ENGINEERING COLLEGE FOR
WOMEN**

Approved by AICTE, New Delhi and affiliated to Anna University,
Chennai)

Semester No. : 07

Course Code / Name : CS8792 - CRYPTOGRAPHY AND NETWORK SECURITY

Branch : 104 - B.E. Computer Science and Engineering

S.NO	REG NO	STUDENT NAME	GRADE
1.	912617104001	ADAIKKALAJAYASRI J	17
2.	912617104002	AKILA S	18
3.	912617104003	BAVANI V	19
4.	912617104005	INDUMATHI S	18
5.	912617104006	KARTHIKA S	18
6.	912617104007	KAYATHRI K	18
7.	912617104008	MULLAIYARASI R	18
8.	912617104009	NISHADEVI G	17
9.	912617104010	PARAMESHWARI S	16
10.	912617104011	PERIYANAYAGI M	16
11.	912617104012	PRIYADARSHINI S	17
12.	912617104013	PRIYADHARSHINI C	18
13.	912617104014	PRIYATHARSHINI V	18
14.	912617104015	RIZWANA PARVEEN Z	19
15.	912617104017	SEETHALAKSHMI S	17
16.	912617104018	VAHINI D	17
17.	912617104019	VINOTHA P	17
18.	912617104301	JAYA PREETHA C	18
19.	912617104302	RAJA LAKSHMI R	17
20.	912617104303	SANGEETHA S	19
21.	912617104701	NAVINA N	18

SIGNATURE OF THE FACULTY IN-CHARGE


HoD/CSE

HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

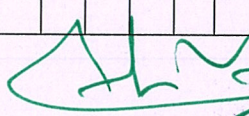

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKKURUCHI

Department of Computer Science and Engineering

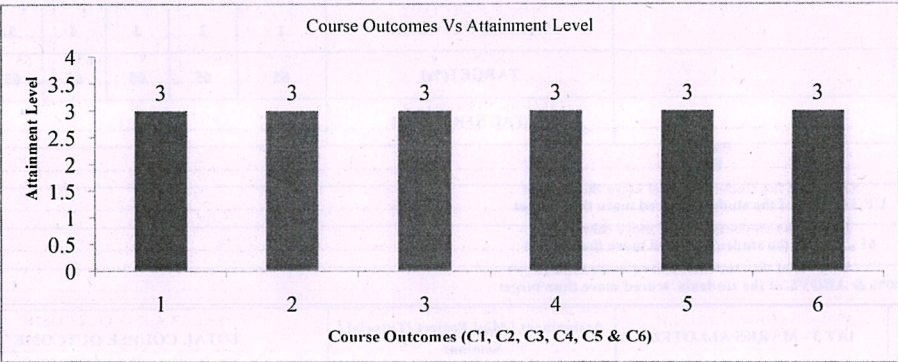
Internal Assessment - Attainment of Course Outcomes (Through Direct Assessment)

		ACADEMIC YEAR - 2020 - 21														BATCH		2017-2021																		
COURSE CODE/TITLE		CS8792(C402)/CRYPTOGRAPHY AND NETWORK SECURITY														COURSE OUTCOME		1	2	3	4	5														
YEAR/SEM		IV/VII														TARGET(%)		65	65	65	65	65														
COURSE COORDINATOR		G.SUGAPRIYA, AP/CSE														TOTAL STRENGTH		21																		
ATTAINMENT LEVEL		Level	Range																																	
		1	UP TO 60% of the students scored more than target																																	
		2	61 - 79% of the students scored more than target																																	
		3	80% & ABOVE of the students scored more than target																																	
S.NO	REG NO	NAME OF THE STUDENT	IAT 1 - MARKS ALLOTTED						IAT 2 - MARKS ALLOTTED						IAT 3 - MARKS ALLOTTED						Assignment / Mini Project / Tutorial / Seminar						TOTAL COURSE OUTCOME									
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5					
			60	40								40	60							60	40					10	10				10	60	50	50	60	60
1	912617104001	ADAIKKALAJAYASRI J	51	34								34	51							52	35					9	7			9	51	43	41	51	52	
2	912617104002	AKILA S	52	34								36	53							53	35					8	9			9	52	42	45	53	53	
3	912617104003	BAVANI V	58	38								38	57							55	37					7	8			8	58	45	46	57	55	
4	912617104005	INDUMATHI S	55	36								36	53							54	36					9	7			9	55	45	43	53	54	
5	912617104006	KARTHIKA S	55	36								35	52							52	35					9	9			8	55	45	44	52	52	
6	912617104007	KAYATHRI K	55	36								36	53							52	34					9	9			7	55	45	45	53	52	
7	912617104008	MULLAIYARASI R	56	38								36	54							50	34					9	9			9	56	47	45	54	50	
8	912617104009	NISHADEVI G	51	34								34	50							52	35					9	9			8	51	43	43	50	52	
9	912617104010	PARAMESHWARI S	48	32								32	48							52	34					9	9			7	48	41	41	48	52	
10	912617104011	PERIYANAYAGI M	49	32								32	48							44	29					8	9			9	49	40	41	48	44	
11	912617104012	PRIYADARSHINI S	55	36								34	50							50	34					8	8			9	55	44	42	50	50	
12	912617104013	PRIYADHARSHINI C	53	35								36	53							56	37					8	8			9	53	43	44	53	56	
13	912617104014	PRIYATHARSHINI V	49	33								36	54							56	38					9	8			9	49	42	44	54	56	
14	912617104015	RIZWANA PARVEEN Z	55	37								37	55							57	38					9	9			9	55	46	46	55	57	
15	912617104017	SEETHALAKSHMI S	53	35								34	51							53	35					9	9			9	53	44	43	51	53	
16	912617104018	VAHINI D	53	35								35	53							51	34					9	9			8	53	44	44	53	51	
17	912617104019	VINOTHA P	53	35								36	53							51	34					8	9			8	53	43	45	53	51	


Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
 Kaikkuruchi - 622 303, Pudukkottai Dt.

18	912617104301	JAYA PREETHA C	53	36											36	55										55	36		9	8			8	53	45	44	55	55
19	912617104302	RAJA LAKSHMI R	52	35											34	51											52	35		8	9		9	52	43	43	51	52
20	912617104303	SANGEETHA S	56	37											36	55											58	38		8	8		9	56	45	44	55	58
21	912617104701	NAVINA N	56	37											36	55											55	37		8	8.0		7	56	45	44	55	55

CO's Target Value	39.0	32.5	32.5	39.0	39.0
No. of Students scored above CO's Target Value	21	21	21	21	21
Percentage of Students scored above Target	100.0	100.0	100.0	100.0	100.0
CO Attainment	3	3	3	3	3
CO attainment Values to plot the Graph	3	3	3	3	3



[Signature]
Faculty Incharge

[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

[Signature]
HOD/CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

[Faint Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
DEPARTMENT OF CSE
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2020 - 2021 (ODD SEM)

YEAR/SEM: IV CSE / VII


Batch:2017- 2021

SUBJECT :CS8792 (C402) / CRYPTOGRAPHY AND NETWORK SECURITY


CO Attainment Level: 1 - (UPTO 60%) 2- (61%-79%) 3-(80% and Above)

TOTAL STRENGTH : 21

S.NO	Register No	NAME	Univ. Grade	
1	912617104001	ADAIKKALAJAYASRI J	U	
2	912617104002	AKILA S	U	
3	912617104003	BAVANI V	B	
4	912617104005	INDUMATHI S	U	
5	912617104006	KARTHIKA S	U	
6	912617104007	KAYATHRI K	U	
7	912617104008	MULLAIYARASI R	U	
8	912617104009	NISHADEVI G	U	
9	912617104010	PARAMESHWARI S	U	
10	912617104011	PERIYANAYAGI M	U	
11	912617104012	PRIYADARSHINI S	U	
12	912617104013	PRIYADHARSHINI C	U	
13	912617104014	PRIYATHARSHINI V	B	
14	912617104015	RIZWANA PARVEEN Z	B	
15	912617104017	SEETHALAKSHMI S	U	
16	912617104018	VAHINI D	U	
17	912617104019	VINOTHA P	U	
18	912617104301	JAYA PREETHA C	U	
19	912617104302	RAJA LAKSHMI R	U	
20	912617104303	SANGEETHA S	B	
21	912617104701	NAVINA N	U	
No. of O Grade			0	0
No. of A+ Grade			0	0
No. of A Grade			0	0
No. of B+ Grade			0	0
No. of B Grade			4	4
No. of U Grade			17	17
No. of UA Grade			0	0
Target for course outcome Attainment			60	21
No of students above the target			4	
CO-Attainment University (%)			19.05	


Faculty


Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.


 HOD/CSE
HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
 KAIKKURICHI,
 PUDUKKOTTAI - 622 303

Overall Attainment Sheet – COs - POs & PSOs attainment calculation

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.20xCO-INT + 0.80xCO-UNI) (%)	CO Attainment Level
C402.1	100.0	19.05	35.2	1
C402.2	100.0	19.05	35.2	1
C402.3	100.0	19.05	35.2	1
C402.4	100.0	19.05	35.2	1
C402.5	100.0	19.05	35.2	1
C402.6	100.0	19.05	35.2	1

Closure of the Quality Loop:

CO	CO-Target for Academic Year						CO Attainment Gap for (%) 16-17	Action Proposed to Bridge the Gap
	14-15		15-16		16-17			
C402.1	65	79.71	65	69	65	35.2	-	-
C402.2	65	79.71	65	71.17	65	35.2	-	-
C402.3	65	79.71	65	63.15	65	35.2	-	-
C402.4	65	79.71	65	75.11	65	35.2	-	-
C402.5	65	79.71	65	73.57	65	35.2	-	-
C402.6	65	79.71	65	68.44	65	35.2	-	-

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	2	1	1	1	-	-	-	-	-	-	-	-	3	2	-
C402.2	2	1	1	1	-	-	-	-	-	-	-	-	3	2	-
C402.3	3	2	2	1	-	-	-	-	-	-	-	-	2	2	-
C402.4	3	2	2	1	-	-	-	-	-	-	-	-	2	2	-
C402.5	3	2	2	1	-	-	-	-	-	-	-	-	2	2	-
C402.6	2	2	1	1	-	-	-	-	-	-	-	-	2	2	-
C402	2.3	1.7	1.5	1	-	-	-	-	-	-	-	-	2.3	2	-

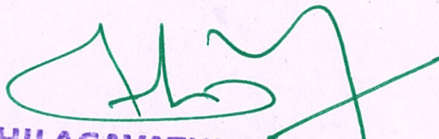
PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	0.67	0.33	0.33	0.33	-	-	-	-	-	-	-	-	1	0.67	-
C402.2	0.67	0.33	0.33	0.33	-	-	-	-	-	-	-	-	1	0.67	-
C402.3	1	0.67	0.67	0.33	-	-	-	-	-	-	-	-	0.67	0.67	-
C402.4	1	0.67	0.67	0.33	-	-	-	-	-	-	-	-	0.67	0.67	-
C402.5	1	0.67	0.67	0.33	-	-	-	-	-	-	-	-	0.67	0.67	-
C402.6	0.67	0.67	0.33	0.33	-	-	-	-	-	-	-	-	0.67	0.67	-
C402	0.84	0.56	0.5	0.33	-	-	-	-	-	-	-	-	0.78	0.67	-

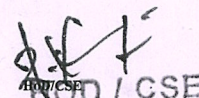
Attainment of POs and PSOs:

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402	2.3	1.7	1.5	1	-	-	-	-	-	-	-	-	2.3	2	-
Attainment	0.84	0.56	0.5	0.33	-	-	-	-	-	-	-	-	0.78	0.67	-

Comments by Program Coordinator	1.
	2.
Remarks by HoD	



Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkuruchi - 622 303, Pudukkottai Dt.



MOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

Name and Signature
of the Faculty Member
A-Sumanpriya