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SASURIE COLLEGE OF ENGINEERING

SASURIE INSTITUTIONS

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

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate,Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING

SASURIE
COLLEGE OF ENGINEERING
Vijayamangalam, Tiruppur.

Criterion 1	Curricular Aspects	100

1.1 Curricular Planning and Implementation (20)

1.1.1The 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	Contents - Course File
2	Class Time Table
3	Students Name List
4	Subject Information Record
5	Syllabus
6	Lesson Plan
7	Test Plan For Subject
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9	Corrective Action Report
10	Quality Objective Monitoring Record
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12	Test Question paper
13	Test Answer Sheet
14	Assignment Question paper
15	Assignment Answer Sheet

SASURIE
College of Engineering
Vijayamangalam, Tiruppur

Department	COMPUTER SCIENCE & ENGINEERING
Subject Code & Name	CS8494 SOFTWARE ENGINEERING
Class & Batch	II - CSE
Semester	IV

CONTENTS COURSE FILE

S.NO	PARTICULARS	REMARKS
1	Time Table	✓
2	Student name list	✓
3	Subject Information Record	✓
4	Syllabus	✓
5	Lesson Plan	✓
6	Test Plan for the Subject	✓
7	Result Analysis	✓
8	Corrective Action Report	✓
9	Quality objective monitoring record	✓
10	Internal test mark sheet(Consolidated)	✓
11	Internal test question paper	✓
12	Model question paper	✓
13	Sample Answer paper for all test(Min 5)	✓
14	Content beyond the syllabus	—
15	Tutorial Class – schedule and content	Soft copy
16	Assignment – schedule and paper	✓
17	PPT - handout	Soft copy
18	Video - Animation - Soft copy	Soft copy
19	Question bank	Soft copy
20	Sample university question papers(min 5 QP-recent exam)	Soft copy
21	Personal Log book - Updated	
22	Lecture Note	Soft...
23	Special Class if any, Approval letter, Schedule, content covered	Soft...

Prepared By

Sign: G. Sowmiya

Name: G. SOWMIYA

Faculty

Approved By

S. PRABAKARAN.

HD

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam

Head, Dept of CSE
SASURIE
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SASURIE INSTITUTIONS

CLASS TIME TABLE, Academic Year 2021-22, EVEN Semester

w.e.f. 08-01-2022
Semester : IX

Department : CSE
Class : II YEAR

HOUR		I	II		III	IV		V	VI		VII	VIII
DAY		9.30am-10.15am	10.15am-11.00pm	11.00am-11.15am	11.15am-11.55am	11.55am-12.40pm	12.40pm-1.20pm	1.20pm-2.00pm	2.00pm-2.40pm	2.40pm-3.20pm	3.20pm-3.35pm	3.35pm-4.15pm
DAY 1	PRAYER			BREAK	SE		LUNCH			BREAK		
DAY 2			SE									
DAY 3		SE										
DAY 4			SE									
DAY 5					SE							

S.No	Subject Code	Acronym	Name of the Subject	Name of the Staff & Department	No of hours
1	CS8494	SE	Software Engineering	Mrs.G.Sowmiya AP/CSE	4
			TOTAL		4

	Prepared By	Verified By	Authorized By
Sign			
Name	Mrs.G.Sowmiya	Mr.S.Prabakaran	Dr.E.NANDAKUMAR
	Time table I/C	HD I/C	Principal

Head, Dept. of CSE
SASURIE
College of Engineering
Vijayamangalam-638 056, Erode (Dt)
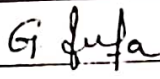
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

Academic Year 2021 - 2022 EVEN Semester

STUDENTS NAME LIST

Department: CSE
Year/Sem.II / IV

Sl. No	Register Number	Student's Name	H/D
1	732420104001	Balaji.M	D
2	732420104002	Depakar.B	D
3	732420104003	Dhavin.R	D
4	732420104004	Kirubakaran.M	H
5	732420104005	Kowsalya.A	D
6	732420104006	Nivetha.S	D
7	732420104007	Ragupathi.M	D
8	732420104008	Sudhakar.M	D
9	732420104009	Sudharson.R	D
10	732420104010	Vignesh.M	D

SIGN	G Sufa	B
NAME	Ms.G SOWMIYA	Mr.S PRABAKARAN
	CLASS ADVISOR	HOD

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Dr.M.VIJAYAKUMAR
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

SUBJECT INFORMATION RECORD

Department	COMPUTER SCIENCE AND ENGINEERING
Subject	SOFTWARE ENGINEERING
Year	IInd
Semester	IV
Last year handled by	—
Percentage of Result (last year)	
Quality Objectives	To Produce result more than 90%. in University Exam.
Reference Book	1. Rajib mall Fundamental of Software Engineering 3rd edition PHI Learning Pvt Ltd 2009. 2. Pankaj Jalote Software Engineering A precise approach wiley India 2010.

Prepared By	Approved By
Sign: G. Suja	S. PRABAKARAN.
Name: G. SOWHIYA	
Faculty	HD

Dr.M.VIJAYAKUMAR ME., M.S.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

Head, Dept. of CSc
SASURIE
College of Engineering

CS8494 | SOFTWARE ENGINEERING | L T P C
| | 3 0 0 3
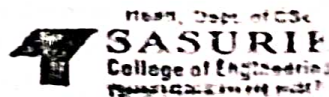
OBJECTIVES:
To understand the phases in a software project
To understand fundamental concepts of requirements engineering and Analysis Modeling.
To understand the various software design methodologies
To learn various testing and maintenance measures

UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT 9
Introduction to Software Engineering, Software Process, Perspective and Specialized Process Models – Introduction to Agility-Agile process-Extreme programming-XP Process.

UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION 9
Software Requirements: Functional and Non-Functional, User requirements, System requirements. Software Requirements Document – Requirement Engineering Process. Feasibility Studies, Requirements elicitation and analysis, requirements validation, requirements management- Classical analysis: Structured system Analysis, Petri Nets- Data Dictionary.

UNIT III SOFTWARE DESIGN 9
Design process – Design Concepts-Design Model– Design Heuristic – Architectural Design - Architectural Styles, Architectural Design, Architectural Mapping using Data Flow- User Interface Design: Interface analysis, Interface Design –Component level Design: Designing Class based components, traditional Components.

UNIT IV TESTING AND MAINTENANCE 9
Software testing fundamentals-Internal and external views of Testing-white box testing - basis path testing-control structure testing-black box testing- Regression Testing – Unit Testing – Integration Testing – Validation Testing – System Testing And Debugging –Software Implementation Techniques: Coding practices-Refactoring-Maintenance and Reengineering-BPR model-Reengineering process model-Reverse and Forward Engineering.

UNIT V PROJECT MANAGEMENT 9
Software Project Management: Estimation – LOC, FP Based Estimation, Make/Buy Decision COCOMO I & II Model – Project Scheduling – Scheduling, Earned Value Analysis Planning – Project Plan, Planning Process, RFP Risk Management – Identification, Projection - Risk Management-Risk Identification-RMMM Plan-CASE TOOLS

TOTAL :45 PERIODS

OUTCOMES:
On Completion of the course, the students should be able to:
- Identify the key activities in managing a software project.
- Compare different process models.
- Concepts of requirements engineering and Analysis Modeling.
- Apply systematic procedure for software design and deployment.
- Compare and contrast the various testing and maintenance.
- Manage project schedule, estimate project cost and effort required.

TEXT BOOKS:
1. Roger S. Pressman, -Software Engineering – A Practitioner's Approach‖, Seventh Edition, Mc Graw-Hill International Edition, 2010.
2. Ian Sommerville, -Software Engineering‖ 9th Edition, Pearson Education Asia, 2011.

REFERENCES:

1. Rajib Mall, -Fundamentals of Software Engineeringl, Third Edition, PHI Learning PrivateLimited, 2009
2. Pankaj Jalote, -Software Engineering, A Precise Approachl, Wiley India, 2010.
3. Kelkar S.A., -Software Engineeringl, Prentice Hall of India Pvt Ltd, 2007.
4. Stephen R.Schach, -Software Engineeringl, Tata McGraw-Hill Publishing Company Limited,2007.
5. http://nptel.ac.in/.

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt),

SASURIE INSTITUTIONS

SASURIE
(Accredited by NAAC, Under 2f and 12B status)
LESSON PLAN

Faculty Name	: G SOWMIYA	Designation: Assistant Professor
Department	: COMPUTER SCIENCE AND ENGINEERING	Semester/ Year IV/ II
Subject / Code	: SOFTWARE ENGINEERING/CS8493	
Academic Year	: 2021-2022	

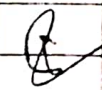| S.No. | Proposed | | Details of Topic Covered | TA | Ref | Actual | | HOD |
	Date	Period				Date	Period	
			UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT					
1	10/3/22	2	Introduction to Software Engineering	1	1	16/3/22	1	
2	11/3/22	4	Software Process	1	1	17/3/22	2	
3	12/3/22	3	Process Model	1	1	18/3/22	4	
4	14/3/22	5	Perspective Process Models	1	1	21/3/22	3	
5	15/3/22	2	Specialized Process Models	1	1	22/3/22	3	
6	16/3/22	1	Introduction to Agility	1	1	23/3/22	1	
7	17/3/22	2	Agile process	1	1	24/3/22	2	
8	18/3/22	7	Extreme programming	1	1	25/3/22	4	
9	21/3/22	3	XP Process	1	1	26/3/22	2	
			UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION					
10	22/3/22	3	Software Requirements	1	1	28/3/22	3	
11	23/3/22	1	System requirements	1	1	29/3/22	2	
12	24/3/22	2	Requirement Engineering Process	1	1	30/3/22	1	
13	25/3/22	4	Feasibility Studies	1	1	31/3/22	2	
14	26/3/22	2	Requirements elicitation and analysis	1	1	1/4/22	4	
15	28/3/22	3	requirements validation, requirements management	1	1	11/4/22	3	
16	29/3/22	2	Classical analysis	1	1	12/4/22	2	
17	30/3/22	1	Petri Nets	1	1	13/4/22	1	
18	31/3/22	2	Data Dictionary	1	1	18/4/22	3	
			UNIT III SOFTWARE DESIGN					
19	1/4/22	4	Design process , Design Concepts	1	1	19/4/22	2	
20	11/4/22	3	Design Model, Design Heuristic	1	1	20/4/22	1	
21	12/4/22	2	Architectural Design ,Architectural styles	1	1	21/4/22	2	
22	13/4/22	1	Architectural Mapping using Data Flow	1	1	22/4/22	4	
23	18/4/22	3	User Interface Design	1	1	23/4/22	1	
24	19/4/22	2	Interface analysis, Interface Design	1	1	25/4/22	3	
25	20/4/22	1	Component level Design	1	1	26/4/22	2	
26	21/4/22	2	Designing Class based components	1	1	27/4/22	1	
27	22/4/22	4	Traditional Components	1	1	28/4/22	2	

No 1

Dr.M.VIJAYAKUMAR MS., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

LESSON PLAN

Faculty Name : G.SOWMIYA	**Designation: Assistant Professor**
Department : COMPUTER SCIENCE AND ENGINEERING	**Semester/ Year:IV/ II**
Subject / Code : SOFTWARE ENGINEERING/CS8495	
Academic Year : 2021-2022	
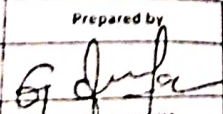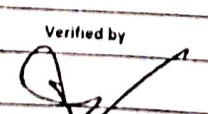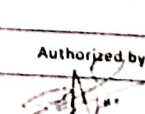
S.No.	Proposed Date	Proposed Period	Details of Topic Covered	TA	Ref.	Actual Date	Actual Period	HOD
			UNIT IV TESTING AND MAINTENANCE					
28	23/4/22	1	Software testing fundamentals	1	2	29/4/22	4	
29	25/4/22	3	white box testing , basis path testing	1	2	30/4/22	2	
40	26/4/22	2	control structure testing,black box testing	1	2	2/5/22	3	
31	27/4/22	1	Regression Testing , Unit Testing	1	2	4/5/22	3.	
32	28/4/22	2	Integration Testing ,Validation Testing	1	2	5/5/22	2	
33	29/4/22	4	System Testing,Debugging	1	2	4/5/22	3	
34	30/4/22	2	Software Implementation Techniques,Coding practices,Refactoring	1	2	5/5/22	2	
35	2/5/22	3	Maintenance and Reengineering,BPR model	1	2	6/5/22	4	
36	4/5/22	3	Reengineering process model,Reverse and Forward Engineering	1	2	1/5/22	3	
			UNIT V PROJECT MANAGEMENT					
37	5/5/22	2	Software Project Management, Estimation – LOC, FP Based Estimation	1,2	2	17/5/22	2	
38	4/5/22	3	Make/Buy Decision COCOMO I & II Model	1,2	2	18/5/22	1	
39	5/5/22	2	Project Scheduling , Scheduling	1,2	2	19/5/22	2	
40	6/5/22	4	Earned Value Analysis Planning	1,2	2	20/5/22	4 .	
41	16/5/22	3	Project Plan, Planning Process	1,2	2	23/5/22	3	
42	17/5/22	2	RFP Risk Management – Identification	1,2	2	24/5/22	2	
43	18/5/22	1	Projection ,Risk Management	1,2	2	25/5/22	3	
44	19/5/22	2	Risk Identification,RMMM Plan	1,2	2	26/5/22	2	
45	20/5/22	4	Case Tools	1,2	2	27/5/22	4	

Reference books (Ref):

1. Roger S. Pressman, A Practitioner's Approach , Seventh Edition, Mc Graw-Hill International Edition, 2010

2. Ian Sommerville, —Software Engineering , 9th Edition, Pearson Education Asia, 2011

Teaching Aids (TA):

1. Black Board with Chalk

2. Overhead Projector

3. LCD Projector

4. Others (Field vists, Charts, Cutset Models)

Prepared by	Verified by	Authorized by
Sign		
Name Ms.G.SOWMIYA	Mr. S.PRABAKARAN	Dr.E.Nandakumar
Faculty	HOD	Principal

TEST PLAN FOR SUBJECT

Subject : SOFTWARE ENGINEERING ·   Faculty: G.SOWMIYA

Semester : IV

     Year: 2021-2022 .

Department : CSE

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1	INTERNAL TEST - I	27.04.22	21.04.22 .	
2	Internal Test II	14.05.22	20/5/22	
3.	Internal Test III	11.06.22	14/06/22	

Prepared By

Sign:

Name: G. SOWMIYA

Faculty

Approved By

S. PRABAKARAN.

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

RESULT ANALYSIS OF TEST

Subject : SE (CS8494)   Date : 21/4/22

Class : II   Department : CSE

Semester : IV

Exam details & date : Internal - I & 21/04/22

Faculty : G SOWMIYA

Number of students : 10

No. of students attended : 6

No. of students absent : 4

No. of students passed : 3

No. of students failed : 3

Percentage of failures : 50.1

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	3	2	—	—

|	Prepared By	Approved By
Sign:	G. Sowfa	
Name:	G. SOWMIYA	S. PRABAKARAN.
	Faculty	HD

RESULT ANALYSIS OF TEST

Subject : SE [CS8494]   Date : 20/5/22

Class : II   Department : CSE

Semester : IV

Exam details & date : Internal II & 20/5/22

Faculty : G SOWMIYA

Number of students : 10

No. of students attended : 9

No. of students absent : 1

No. of students passed : 6

No. of students failed : 3

Percentage of failures : 33%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	2	0	4	3	-

	Prepared By	Approved By
Sign:	G. Sufa	
Name:	G. SOWMIYA	S. PRABAKARAN.
	Faculty	HD
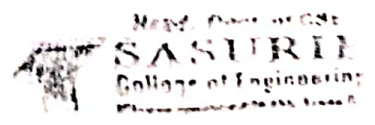
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

RESULT ANALYSIS OF TEST

Subject : SE [CS8494]   Date : 14/6/22

Class : II   Department : CSE

Semester : IV

Exam details & date : Model Exam [4/6/22]

Faculty : G.sowmiya

Number of students : 10

No. of students attended : 8

No. of students absent : 2

No. of students passed : 4

No. of students failed : 4

Percentage of failures : 50/.

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	4	2	1	

	Prepared By	Approved By
Sign:		
Name:	G.SOWMIYA	S.PRABAKARAN
	Faculty	HD

Head, Dept of CSE
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Dr.M.VIJAYAKUMAR ME., Ph.D.,
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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

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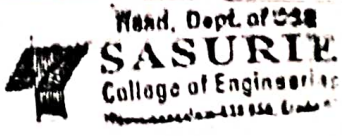## CORRECTIVE ACTION REPORT

Dept : CSE

Subject : Software Engineering

Year: II

Semester: IV

S.No	Internal Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
1	Internal Test I	50 %	Concentrate on 16mark 90% question	ASSIGNMENT Given	24.4.22	
2	Internal Test II	66%	16mark 90% not written well	Assignment Given	28.5.22	
3	Internal Test III	50%	16mark 90% not written definitions correctly	Assignment Given	16.6.22	

	Prepared By		Approved By
Sign:	G. Sowya		
Name:	G SOWMIYA		S. PRABAKARAN
	Faculty		HD

QUALITY OBJECTIVE MONITORING RECORD

Department : C SE

Year : II

Semester : IV

Subject : Software Engineering

S.No	Quality Objective	Internal Test-I		Internal Test-II		Model Test-I	
		Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
1	To make student obtain knowledge on Software Engineering	90%	50%	90%	66%	90%	50%

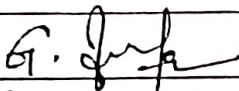|	Prepared By	Approved By
Sign:	G. Sowmya (signature)	(signature)
Name:	G. SOWMIYA	S. PRABAKARAN.
	Faculty	HD

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SASURIE INSTITUTIONS

SASURIE
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Vijayamangalam, Tirupur

Academic Year 2021 - 2022 EVEN Semester

MARK LIST

Department: Computer Science and Engineering
Year/Sem:II / IV

Sl. No	Register Number	Student's Name	INTERNAL MARK 1	INTERNAL MARK 2	MODEL EXAM MARK
1	732420104001	BALAJI.M	39	86	54
2	732420104002	DEPAKAR.B	74	84	78
3	732420104003	DHAVIN.R		32	86
4	732420104004	KIRUBAKARAN.M	25	21	26
5	732420104005	KOWSALYA.A	AB	AB	AB
6	732420104006	NIVETHA.S	52	74	35
7	732420104007	RAGUPATHI.M	AB	4	AB
8	732420104008	SUDHAKAR.M	62	68	54
9	732420104009	SUDHARSON.R	34	59	42
10	732420104010	VIGNESH.M		54	50

SIGN		
NAME	G.SOWMIYA	S.Prabhakaran
	FACULTY	HOD

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Vijayamangalam, Tirupur

INTERNAL ASSESMENT - II			Date/Session	20.05.2022/FN	Marks		50
Course code	CS8494	Course Title	SOFTWARE ENGINEERING				
Regulation	2021	Duration	1.5 Hours	Academic Year		2021-2022	
Year	II	Semester	IV	Department		CSE	

COURSE OUTCOMES

CO1:	Identify the key activities in managing a software project.
CO2:	Compare different process models.
CO3:	Concepts of requirements engineering and Analysis Modeling.
CO4:	Apply systematic procedure for software design and deployment.
CO5:	Compare and contrast the various testing and maintenance.
CO6	Manage project schedule, estimate project cost and effort required.

Q.No.	Question	CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)		
1	Define Quality Function Development (QFD)	CO2	R
2	Write a note on a FURPS model.	CO2	U
3	What is the purpose of data dictionary?	CO1	R
4	What is the purpose of Petri Net?	CO2	U
5	List the characteristic of a good SRS.	CO2	U
6	What are the linkages between data flow and E-R Diagram?	CO3	U
7	What are the golden roles for an interface design?	CO3	R
8	Define Feasibility study and list the types.	CO3	R
9	How are the requirements validated?	CO2	R
10	Draw the diagram to demonstrate the architectural styles	CO3	U

PART B
(Answer all the Questions 2 x 15 = 30 Marks)

11a	Discuss about the design concept in software development process.	CO1	E
	OR		
11b	Discuss about user interface a design of software with a example and neat sketch.	CO2	E
12a	What is software architecture? Describe in detail different type of software architecture will illustrations?	CO3	C
	OR		
12b	Explain the cohesion and coupling types with example	CO2	U

Course Faculty
17/5/22

(Name/Sign/Date)
G. SOWMIYA

HoD
01/5/22

(Name/Sign/Date)
(S. Prabakaran)

Principal

(Name/Sign/Date)
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
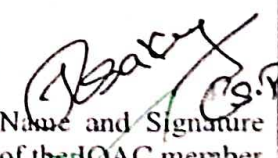Vijayamangalam - 638 056, Tirupur (Dt).

Internal Assessment Test Answer Book

Name	M. Balaji			Year/ Semester/Section		II / IV / A
Register Number	B2420104001	Date/Session	20.5.22/FN	Department		CSE
Course code	CS8494	Course Title	Software Engineering			
Internal Assessment Test		IAT 1 ☐	IAT 2 ☑	IAT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date		M. Athul 20/5/22 [M. Arunkumar]				

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B/ Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		Total Marks
1	✓	1	11	✓	12				12
2	✓	2	12			✓	12		12
3	✓	2	13						
4	✓	2	14						
5	✓	2	15						
6	✓	2	16						
7	✓	2					Grand Total		24
8	✓	2							
9	✓	2	43/50						
10	✓	2			Name and Signature of the Examiner with date				
Total		19	Grand Total						

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	17	25	08	—	—	—	50
Marks Obtained	14	21	08	—	—	—	43

IQAC Audit - Remarks

Marks are verified

Name and Signature of the IQAC member [S. Prabhakaran]

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Assignment Question Paper

Assignment – 02			Date of Issue:	12.05.2022	Marks	10
Course code	CS8494	Course Title	SOFTWARE ENGINEERING			
Year	II	Semester/Section	IV / A	Date of Submission:	25.05.2022	

Q.No	Questions	CO
1	Explain in detail about white box testing.	CO5
2	Explain in detail about black box testing.	CO5

Name and Signature of the Faculty Incharge

[G.SOWMIYA]

HoD/CSE

Dr.M.VIJAYAKUMAR ME., Ph.D.
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Assignment Answer Sheet

Name of the Student : M Sudhakar

AU Register Number: 732420104008

Assignment – 02			Date of Issue:	12.05.2022	Marks	10
Course code	CS8494	Course Title	SOFTWARE ENGINEERING			
Year	II	Semester/Section	IV / A	Date of Submission:	25.05.2022	

Q.No	Questions	CO
1	Explain in detail about white box testing.	CO5
2	Explain in detail about black box testing.	CO5

Mark Allocation

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

Name and Signature of the Faculty Incharge

G. Sowmiya .

HoD/CSE

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).