



SASURIE COLLEGE OF ENGINEERING

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



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	Contents - Course File
2	Students Name List
3	Students Arrear List
4	Subject Information Record
5	Syllabus
6	Lesson Plan
7	Test Plan For Subject
8	Result Analysis of Test
9	Corrective Action Report
10	Quality Objective Monitoring Record
11	Consolidated Internal Mark Statement
12	Test Question paper
13	Test Answer Sheet
14	Assignment Question paper
15	Assignment Answer Sheet

Department : CCE
 Subject Code & Name : CS67024 & Resource Management Techniques
 Class & Batch : IV - CCE - 2016-2020
 Semester : VII

CONTENTS - COURSE FILE

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

Sign:	Prepared By A.P. Saravanan	Approved By J. Srinath
Name:	A P Saravanan	J. Srinath
	Faculty	HD

Me

STUDENT'S NAME LIST

YEAR:IV CSE

SEM:VII SEM

S.No	Register Number	Name of the student	REMARKS
1	732416104001	ABBAS J	REGULAR
2	732416104002	ABINASH V	REGULAR
3	732416104003	AJITH KUMAR A	REGULAR
4	732416104004	ARAVIND A	REGULAR
5	732416104006	BOOMA R	REGULAR
6	732416104007	CHANDRU M	REGULAR
7	732416104008	DEEPAK RAJ K	REGULAR
8	732416104009	DEVAPRASAD S	REGULAR
9	732416104010	DHINESHKUMAR M	REGULAR
10	732416104011	DINESH V	REGULAR
11	732416104012	GAYATHRI G	REGULAR
12	732416104013	GOKULA KRISHNAN R	REGULAR
13	732416104014	HARIHARAN R	REGULAR
14	732416104015	HARIPRAKASH B	REGULAR
15	732416104016	HARIPRASATH N	REGULAR
16	732416104017	IMMANUVEL G	REGULAR
17	732416104019	JOTHI R	REGULAR
18	732416104020	KAMALI P	REGULAR
19	732416104021	KANIMOZHI D	REGULAR
20	732416104022	KANIMOZHI P	REGULAR
21	732416104023	KASTHURI G	REGULAR
22	732416104024	KAVITHA N	REGULAR
23	732416104025	KOKILAPRIYA P	REGULAR
24	732416104027	KRISHNAMOORTHY P	REGULAR
25	732416104028	KUMAR R	REGULAR
26	732416104029	LOURDU JERMIYA L	REGULAR
27	732416104030	MAHESHWARI L	REGULAR
28	732416104031	MOHANRAJ P	REGULAR

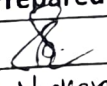

me

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

29	732416104032	MOHANRAJ S	REGULAR
30	732416104033	MURUKANANDAM B	REGULAR
31	732416104034	MYTHILI P	REGULAR
32	732416104035	NIKITHA M	REGULAR
33	732416104036	PAVITHRA B	REGULAR
34	732416104037	PRAJITHA A	REGULAR
35	732416104038	PRIYADHARSHINI M	REGULAR
36	732416104039	PRIYADHARSHINI S	REGULAR
37	732416104040	PRIYANKA T	REGULAR
38	732416104041	RAMANIVIDHYA N	REGULAR
39	732416104042	RANJANI V	REGULAR
40	732416104043	SANDHIYA K	REGULAR
41	732416104044	SANTHOSH K S	REGULAR
42	732416104045	SARANYA R	REGULAR
43	732416104046	SARANYA U	REGULAR
44	732416104047	SOWMIYA R	REGULAR
45	732416104048	SOWRABI N	REGULAR
46	732416104049	SREERAJ R	REGULAR
47	732416104050	SWETHA R	REGULAR
48	732416104051	VAISHNAVI S	REGULAR
49	732416104053	YOGAPRIYA B	REGULAR
50	732416104301	MOHANRAJ V	REGULAR
51	732416104702	PREAMI L	TRANSFER
52	737216104703	VELLAPANDI M	TRANSFER

	Prepared by	Verified by
Sign:		
Name:	Prabhakaran. S	J Justina Princy Thilagavathy
	CLASS ADVISOR	HD


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


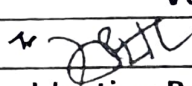
STUDENT'S ARREAR LIST

YEAR:IV CSE

SEM:VII SEM

S.No	Register Number	Name of the student	No.of Arrears
1	732416104001	ABBAS J	8
2	732416104002	ABINASH V	13
3	732416104003	AJITH KUMAR A	2
4	732416104004	ARAVIND A	0
5	732416104006	BOOMA R	1
6	732416104007	CHANDRU M	1
7	732416104008	DEEPAK RAJ K	19
8	732416104009	DEVAPRASAD S	6
9	732416104010	DHINESHKUMAR M	3
10	732416104011	DINESH V	7
11	732416104012	GAYATHRI G	0
12	732416104013	GOKULA KRISHNAN R	1
13	732416104014	HARIHARAN R	1
14	732416104015	HARIPRAKASH B	18
15	732416104016	HARIPRASATH N	8
16	732416104017	IMMANUVEL G	12
17	732416104019	JOTHI R	0
18	732416104020	KAMALI P	0
19	732416104021	KANIMOZHI D	4
20	732416104022	KANIMOZHI P	0
21	732416104023	KASTHURI G	1
22	732416104024	KAVITHA N	12
23	732416104025	KOKILAPRIYA P	4
24	732416104027	KRISHNAMOORTHI P	19
25	732416104028	KUMAR R	9
26	732416104029	LOURDU JERMIYA L	13
27	732416104030	MAHESHWARI L	1
28	732416104031	MOHANRAJ P	2
29	732416104032	MOHANRAJ S	12
30	732416104033	MURUKANANDAM B	15
31	732416104034	MYTHILI P	0

32	732416104035	NIKITHA M	0
33	732416104036	PAVITHRA B	1
34	732416104037	PRAJITHA A	1
35	732416104038	PRIYADHARSHINI M	0
36	732416104039	PRIYADHARSHINI S	23
37	732416104040	PRIYANKA T	0
38	732416104041	RAMANIVIDHYA N	3
39	732416104042	RANJANI V	0
40	732416104043	SANDHIYA K	0
41	732416104044	SANTHOSH K S	13
42	732416104045	SARANYA R	1
43	732416104046	SARANYA U	0
44	732416104047	SOWMIYA R	6
45	732416104048	SOWRABI N	0
46	732416104049	SREERAJ R	16
47	732416104050	SWETHA R	1
48	732416104051	VAISHNAVI S	1
49	732416104053	YOGAPRIYA B	1
50	732416104301	MOHANRAJ V	14
51	732416104702	PREAMI L	10
52	737216104703	VELLAPANDI M	7

	Prepared by	Verified by
Sign:		
Name:	Prabha Lakshmi S	J Justina Princy Thilagavathy
	CLASS ADVISOR	HD

Me 

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

SUBJECT INFORMATION RECORD

Department : CSE

Subject : Resource Management Techniques

Year : IV

Semester : VII

Last year handled by : A.P. Saravanan


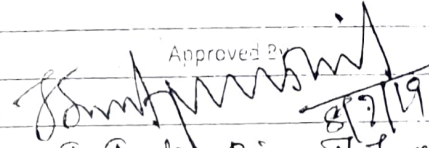
Percentage of Result (last year) : 59 %

Quality Objectives

- * To know about the basic concepts of operation research.
- * To know the basic concepts of networks.

Reference Book

- * Pannor sekram 'operation Research' Prentice Hall of India.
- * Vohra 'Quantitative Techniques in management' Tata Mc Graw Hill - 2002.

	Prepared By	Approved By
Sign:		
Name:	A.P. Saravanan	J. Justin Princy
	Faculty	HD

OBJECTIVES:

The student should be made to:

- Be familiar with resource management techniques.
- Learn to solve problems in linear programming and Integer programming
- Be exposed to CPM and PERT

UNIT I LINEAR PROGRAMMING

Principal components of decision problem – Modeling phases – LP Formulation and graphic solution – Resource allocation problems – Simplex method – Sensitivity analysis. 9

UNIT II DUALITY AND NETWORKS

Definition of dual problem – Primal – Dual relationships – Dual simplex methods – Post optimality analysis – Transportation and assignment model - Shortest route problem. 9

UNIT III INTEGER PROGRAMMING

Cutting plan algorithm – Branch and bound methods, Multistage (Dynamic) programming. 9

UNIT IV CLASSICAL OPTIMISATION THEORY:

Unconstrained external problems, Newton – Raphson method – Equality constraints – Jacobean methods – Lagrangian method – Kuhn – Tucker conditions – Simple problems. 9

UNIT V OBJECT SCHEDULING:

Network diagram representation – Critical path method – Time charts and resource leveling – PERT. 9

TOTAL: 45 PERIODS

OUTCOMES:

Upon Completion of the course, the students should be able to:

- Solve optimization problems using simplex method.
- Apply integer programming and linear programming to solve real-life applications.
- Use PERT and CPM for problems in project management

TEXT BOOK:

1. H.A. Taha, "Operation Research", Prentice Hall of India, 2002.

REFERENCES:

1. Paneer Selvam, 'Operations Research', Prentice Hall of India, 2002
2. Anderson 'Quantitative Methods for Business', 8th Edition, Thomson Learning, 2002.
3. Winston 'Operation Research', Thomson Learning, 2003.
4. Vohra, 'Quantitative Techniques in Management', Tata Mc Graw Hill, 2002.
5. Anand Sarma, 'Operation Research', Himalaya Publishing House, 2003.

J. Sambasivam
8/07/19

M

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

LESSON PLAN SCHEDULE

Department: COMPUTER SCIENCE ENGINEERING
Faculty Name: **A.P. SARAVANAN**
Subject Code & Title: RESOURCE MANAGEMENT TECHNIQUES (RMT)
Class: IV BT (CSE)

Date: 01.07.19
Semester: VII

S.No	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD
	Date	Period				Date	Period	
UNIT-I LINEAR PROGRAMMING								
1	01.07.19	7	Introduction L.P.P	1	1.3	1.7.19	7	
2	01.07.19	8	L.P.P Problem	1	1.3	1.7.19	8	
3	02.07.19	6	Graphical Method	1	1.3	2.7.19	4	
4	03.07.19	5	Graphical solution-Problem	1	1.3	2.7.19	5	
5	04.07.19	3	Simplex method	1	1.3	3.7.19	5	
6	04.07.19	4	Simplex method -Problem	1	1.3	5.7.19	2	
7	06.07.19	1	Big M Method	1	1.3	8.7.19	5,6	
8	06.07.19	2	Big M -Problem	1	1.3	8.7.19	7	<i>[Signature]</i> 8/7
9	08.07.19	7	Sensitivity Analysis	1	1.3	8.7.19	8	
UNIT-II DUALITY AND NETWORKS								
10	08.07.19	8	Duality in L.P.P	1	1.3	9.7.19	6	
11	09.07.19	6	Duality Problem	1	1.3	10.7.19	5	
12	10.07.19	5	Dual Simplex method	1	1.3	10.7.19	7	
13	11.07.19	3	Problem on Dual simplex method	1	1.3	10.7.19	8	
14	11.07.19	4	Transportation -Using North west corner	1	1.3	11.7.19	3	
15	13.07.19	2	lowest cost entry method	1	1.3	11.7.19	4	
16	15.07.19	7	Vogel's Approximation	1	1.3	12.7.19 15.7.19	6,5	<i>[Signature]</i> 12/7
17	15.07.19	8	Assignment problem	1	1.3	15.7.19 16.7.19	7,8 6,8	

[Signature]
DR. M. VIJAYAKUMAR M.E., Ph.D.,
PRINCIPAL

LESSON PLAN SCHEDULE

NAME OF THE FACULTY: _____

Date: _____

A.P. SRIVANAN

Semester: _____

COURSE NAME: _____

COURSE: _____

Sl. No.	Proposed		Details of Topic Covered	TA	Ref.	Actual		No.
	Date	Period				Date	Period	
19	17.07.19	6	Travelling salesman problem	1	1.3	17.7.19	8	
UNIT-III INTEGER PROGRAMMING								
20	17.07.19	8	Cutting plane method	1	1.3	22.7.19	7	
21	18.07.19	3	Gomory's fractional cut constraint problem	1	1.3	22.7.19 23.7.19	8 5	
21	18.07.19	4	Problem on Gomory's Fractional cut	1	1.3	24.7.19 25.7.19	5 3,4	
22	18.07.19	6	Problem on Mixed integer programming	1	1.3	27.7.19	2	
23	18.07.19	5	Gomory's Mixed integer programming	1	1.3	29.7.19	7	
24	01.08.19	3	Branch Bound method	1	1.3	29.7.19	8	
25	01.08.19	4	Problem on Branch Bound method	1	1.3	30.7.19	5	
26	05.08.19	7	Dynamic Programming	1	1.3	30.7.19	6	
27	05.08.19	8	Multi stage Programming	1	1.3	30.7.19	6	
UNIT-IV CLASSICAL OPTIMISATION THEORY								
28	06.08.19	6	General N.L.P.P. Introduction	1	1.3	1.8.19	3	
29	07.08.19	5	N.L.P. Problems - one constraint	1	1.3	1.8.19	4	
30	08.08.19	3	Problems under Non linear programming	1	1.3	5.8.19	7	
31	08.08.19	4	Lagrangian Function	1	1.3	5.8.19	8	
32	19.08.19	7	Problems under Lagrangian Functions	1	1.3	7.8.19	5	
33	19.08.19	8	Kuhn-Tucker conditions	1	1.3	7.8.19	7	
34	20.08.19	6	Problems under Kuhn-Tucker conditions	1	1.3	7.8.19	8	
35	23.08.19	5	Jacobian Method	1	1.3	6.8.19	6	
36	03.09.19	6	Problems under Jacobian Method	1	1.3	19.8.19	7	

Dr.M.VIJAYAKUMAR ME., P
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING

Vijayamangalam - 638 056, Tirupur (Dt).

LESSON PLAN SCHEDULE

DEPARTMENT OF ELECTRICAL ENGINEERING

A. P. SARAVANAN

RESOURCE MANAGEMENT TECHNOLOGIES (RMT)

UNIT V

S.No	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD	
	Date	Period				Date	Period		
UNIT V OBJECT SCHEDULING									
38	19.09.19	3	Network Diagram Introduction	1	1.3	19.8.19	8	<i>[Signature]</i>	
39	20.09.19	3	Network construction Problem	1	1.3	20.8.19	5		
40	04.09.19	4	Problem based on Network construction	1	1.3	20.8.19	6		
41	09.09.19	7	Critical Path Method	1	1.3	21.8.19	5		
42	09.09.19	8	Problem under Critical Path Method	1	1.3	21.8.19	6		
43	11.09.19	5	Time Analysis for Network	1	1.3	24.8.19	1		
44	12.09.19	3	PERT Analysis	1	1.3	24.8.19	2		
44	12.09.19	4	PERT Analysis	1	1.3	26.8.19	7		<i>[Signature]</i>
45	16.09.19	7,8	Problems based on PERT Analysis	1	1.3	26.8.19	8		

Reference books (Ref):

1. H.A. Taha, "Operation Research", Prentice Hall of India, 2002.
2. Panner Selvam, "Operations Research", Prentice Hall of India, 2002
3. Dr. G. Balaji Balaji publishers Chennai

Teaching Aids (TA):

1. Conventional Teaching - CT
2. Power Point Presentation - PPT
3. Model Display - MD
4. Simulation - SIM
5. Practical Demonstration - PD
6. Animated Videos - AV
7. Cross Words - CW
8. Question and Answer - QA

Prepared by <i>[Signature]</i> A. P. SARAVANAN Faculty	Verified by <i>[Signature]</i> Prasuna Princy Thilagavathy HD	Authorized by <i>[Signature]</i> Dr. K. Chandrasekaran Principal PRINCIPAL
--	---	---

[Signature]
Dr. M. VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL

TEST PLAN FOR SUBJECT

Subject : RMT



Faculty: SARAVANAN

Semester : VII

Year: IV

Department : CSE

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1	Internal Test - I	22.07.19 to 29.07.19	09.08.19	
2	Internal test - II		17.09.19	
3	model Test		16.10.19	

	Prepared By	Approved By
Sign:		
Name:	A.P. SARAVANAN	J. Sivarath
	Faculty	HD

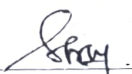
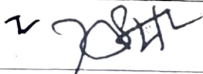
RESULT ANALYSIS OF TEST

Subject : RMT Date : 25.9.19
 Class : IV - CSE Department : CSE
 Semester : VII

Exam details & date : Internal test - II & 17.09.19.
 Faculty : A.P. Saravanan
 Number of students : 52
 No. of students attended : 47
 No. of students absent : 05
 No. of students passed : 29
 No. of students failed : 18
 Percentage of failures : 38 %

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	6	18	13	9

	Prepared By	Approved By
Sign:		
Name:	A.P. Saravanan	J. Sivanth
	Faculty	HD

Department of Electronics and Communication Engineering

RESULT ANALYSIS OF TEST

Subject : RMT Date : 24.10.19
 Class : IV - CSE Department : CSE
 Semester : VI
 Exam details & date : MODEL EXAM & 16.10.19.
 Faculty : A.P. Saravanan.
 Number of students : 52.
 No. of students attended : 47
 No. of students absent : 05
 No. of students passed : 27
 No. of students failed : 20
 Percentage of failures : 42%.

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	NIL	6	19	16	6

	Prepared By	Approved By
Sign:	A.P. Saravanan	J. Srikanth
Name:	A.P. Saravanan	J. Srikanth
	Faculty	HD

(Accredited by NAAC)

CORRECTIVE ACTION REPORT

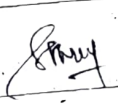
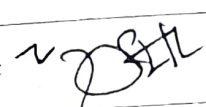
DEPT: CSE

YEAR: IV

SUBJECT: RMT

SEMESTER: VII

S.No	Internal Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
1	I	72%	Careless mistakes	Assignment given	20.08.19	
2	II	62%	Table calculator mistakes. values not properly calculated	Assignment given		
3	III	58%	Formula mistakes	Assignment given		

Prepared by	Verified by
A.P. 	
Subject Faculty name	HOD


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



QUALITY OBJECTIVE MONITORING RECORD

Department : CSE
Year : IV
Semester : VI
Subject : PMT

S.No	Quality Objective	Internal Test-I		Internal Test-II		Internal Test-III	
		Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
1	To produce 80% of result	80%	72%	80%	62%	80%	58%

	Prepared By	Approved By
Sign:	<i>[Signature]</i>	<i>[Signature]</i>
Name:	A.P. Saravanan.	J. Senthil
	Faculty	HD





SASURIE
College of Engineering
Vijayamangalam

CONSOLIDATED INTERNAL MARK STATEMENT

YEAR: IV CSE
SEM: VII SEM

Dept : CSE

SUB CODE / NAME : CS6704 / RESOURCE MANAGEMENT TECHNIQUES

S.No	Register Number	Name of the student	ST I	ST II	ST III	INT I	ST - IV	INT - II	MODUL
			13.07.19	17.07.19	27.07.19	9.08.19	31.08.19	17.09.19	16.10.19
1	732416104001	ABBAS J	AA	AA	AA	50	AA	84	
2	732416104002	ABINASH V	28	AA	AA	52	AA	40	
3	732416104003	AJITH KUMAR A	AA	40	AA	44	80	74	
4	732416104004	ARAVIND A	AA	60	60	84	80	81	
5	732416104006	BOOMA R	80	68	AA	90	80	70	
6	732416104007	CHANDRU M	84	40	40	84	64	84	
7	732416104008	DEEPAK RAJ K	60	60	AA	60	32	84	
8	732416104009	DEVAPRASAD S	44	44	84	72	AA	61	
9	732416104010	DHINESHKUMAR M	40	20	76	80	AA	72	
10	732416104011	DINESH V	56	24	AA	70	36	78	
11	732416104012	GAYATHRI G	92	96	100	96	84	100	
12	732416104013	GOKULA KRISHNAN R	64	60	40	74	76	90	
13	732416104014	HARIHARAN R	AA	60	AA	90	68	96	
14	732416104015	HARIPRAKASH B	AA	AA	AA	28	36	51	
15	732416104016	HARIPRASATH N	32	64	32	84	60	76	
16	732416104017	IMMANUVEL G	AA	AA	AA	30	AA	56	
17	732416104019	JOTHI R	84	76	76	90	48	94	
18	732416104020	KAMALI P	64	AA	AA	78	60	54	
19	732416104021	KANIMOZHI D	52	72	64	80	56	70	
20	732416104022	KANIMOZHI P	80	AA	72	96	AA	60	
21	732416104023	KASTHURI G	68	76	68	90	24	61	
22	732416104024	KAVITHA N	AA	24	20	46	8	22	
23	732416104025	KOKILAPRIYA P	AA	84	72	54	64	74	
24	732416104027	KRISHNAMOORTHY P	AA	AA	AA	AA	AA	AA	
25	732416104028	KUMAR R	AA	40	40	82	32	72	
26	732416104029	LOURDU JERMIYA L	40	60	52	90	AA	64	
27	732416104030	MAHESHWARI L	60	80	88	96	84	84	
28	732416104031	MOHANRAJ P	32	20	AA	64	AA	61	
29	732416104032	MOHANRAJ S	AA	60	AA	24	11	11	
30	732416104033	MURUKANANDAM B	AA	40	8	20	36	44	
31	732416104034	MYTHILI P	76	76	92	96	76	84	
32	732416104035	NIKITHA M	96	100	100	76	100	100	
33	732416104036	PAVITHRA B	72	56	88	82	AA	84	
34	732416104037	PRAJITHA A	68	62	80	86	AA	84	
35	732416104038	PRIYADHARSHINI M	92	AA	AA	82	64	84	

Dr. M. VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

36	732416104039	PRIYADHARSHINI S	AA	16	60	40	AA	AA	2
37	732416104040	PRIYANKA T	96	92	92	84	48	100	6
38	732416104041	RAMANIVIDHYA N	80	64	88	96	64	82	8
39	732416104042	RANJANI V	60	84	80	98	76	60	7
40	732416104043	SANDHIYA K	84	68	96	96	60	96	8
41	732416104044	SANTHOSH K S	32	20	AA	34	28	42	5
42	732416104045	SARANYA R	64	92	84	96	OD	OD	0
43	732416104046	SARANYA U	88	88	76	84	56	64	8
44	732416104047	SOWMIYA R	AA	40	92	74	80	62	7
45	732416104048	SOWRABI N	64	96	92	92	84	80	8
46	732416104049	SREERAJ R	AA	AA	AA	24	48	34	5
47	732416104050	SWETHA R	24	64	84	74	64	82	7
48	732416104051	VAISHNAVI S	AA	48	72	70	44	72	7
49	732416104053	YOGAPRIYA B	64	76	80	98	52	70	8
50	732416104301	MOHANRAJ V	64	60	56	82	80	48	7
51	732416104702	PREAMI L	AA	AA	AA	AA	AA	AA	AA
52	737216104703	VELLAPANDI M	-	-	-	86	76	54	82

	Prepared by	Verified by
Sign:	A.P. Saravanan	<i>[Signature]</i>
Name:	A.P. Saravanan	J. Sivarath
	Faculty	HD


 DR. N. VIJAYAROMAN M.E., PH.D.
 PRINCIPAL
 SAGURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

Register Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



SASURIE
College of Engineering
Vijayamangalam, Tirupur.

INTERNAL TEST - I

Course code	CS6704	Course Title	RESOURCE MANAGEMENT TECHNIQUES (SET A)			Date/Session	10.08.2019/FN	Marks	50
Regulation	2017	Duration	90 MINS	Academic Year	2019-2020	Year	IV	Semester	VII
Department	CSE								

COURSE OUTCOMES

CO1:	Solve optimization problems using simplex method
CO2:	Apply integer programming and linear programming to solve real-life applications
CO3:	Use PERT and CPM for problems in project management

Q.No.	Question	CO	BTS
-------	----------	----	-----

PART A
(Answer all the Questions 10 x 2 = 20 Marks)

1	What do you mean by a general LPP?	CO1	R
2	Define feasible solution.	CO1	U
3	What is artificial variable technique?	CO2	R
4	Define slack variables.	CO1	U
5	Define surplus variables	CO2	U
6	Write the standard form of LPP in Matrix form.	CO1	U
7	State the characteristics of the standard form of L.P.P.	CO2	R
8	State the applications of operations research?	CO1	R
9	How dual simplex method starts?	CO1	R
10	Define basic solution to an LPP	CO1	U

Mre
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL

PART B

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

11a	<p>(i) Food X contains 6 units of vitamin A per gram and 7 units of vitamin B per gram and costs 12 paise per gram. Food Y contains 8 units of vitamin A per gram and 12 units of vitamin B and costs 20 paise per gram. The daily minimum requirements of vitamin A and vitamin B are 100 units and 120 units respectively. Find the minimum cost of product mix. (7)</p> <p>(ii) Use Graphical method to find (8) Minimum of $z=4x_1+2x_2$ Subject to constraints $x_1+2x_2 \geq 2, 3x_1+x_2 \geq 3, 4x_1+3x_2 \geq 6, x_1, x_2 \geq 0.$</p>	CO1	E
OR			
11b	<p>(i) Use Graphical method to find $\text{Max } z = 6x_1 + 8x_2$ (7) Subject to $5x_1+10x_2 \leq 60$ $4x_1 + 4x_2 \leq 60$ $x_1 \text{ and } x_2 \geq 0$</p> <p>(ii) Use simplex method to find (8) Minimize $z = x_2 - 3x_3 + 2x_5$ Subject to the constraints $3x_2 - x_3 + 2x_5 \leq 7$ $-2x_2 + 4x_3 \leq 12$ $-4x_2 + 3x_3 + 8x_5 \leq 10$ $x_2, x_3, x_5 \geq 0$</p>	CO1	E
12a	<p>Use Big M – method to Maximize $z = 3x_1 - x_2$ Subject to the constraints $2x_1 + x_2 \geq 2$ $x_1 + 3x_2 \leq 3$ $x_2 \leq 4$ $x_1, x_2 \geq 0$</p>	CO2	C
OR			
12b	<p>Use Dual simplex method to solve L.P.P Maximize $z = 3x_1 - 2x_2$ Subject to the constraints $x_1 + x_2 \geq 1$ $x_1 + x_2 \leq 7$ $x_1 + 2x_2 \geq 10$ $x_2 \leq 3$ $x_1, x_2 \geq 0.$</p>	CO2	U

A.P. S. 9/8/19
Course Faculty

(Name/Sign/Date)

A.P. Srinivasan

John Paul
HoD 9/8/19

(Name/Sign/Date)

J.J. Justina Pourny

Thilagathy

U.P. S. 9/8/19
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	P. Kokila Puya			Year/ Semester/Section	IV / III / A
Register Number	132416104025	Date/Session	10.8.19 / FN	Department	CSE
Course code	CS6704	Course Title	Resource Management Techniques		
Internal Assessment Test	IAT 1 <input checked="" type="checkbox"/>	IAT 2 <input type="checkbox"/>	IAT 3 <input type="checkbox"/>	Model	<input type="checkbox"/>
Name and Signature of the Invigilator with date	Cp 7/10/8/19 [Gowri]				

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	b	
					Marks	Marks	
1	✓	2	11		✓	076 (11) 5	11
2	✓	2	12				
3	✓	2	13				
4	✓	2	14				
5	✓	2	15				
6	✓	2	16				
7	✓	2	Grand Total				11
8	✓	2	27/50 Grand Total				A p. S. Govindarajan A p. S. Govindarajan 7/10/8/19 Name and Signature of the Examiner with date
9	-	0					
10	✓	0					
Total		16					

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	29	21	-	-	-	-	50
Marks Obtained	21	06	-	-	-	-	27
IQAC Audit - Remarks							
Marks are verified							[Signature] Name and Signature of the IQAC member

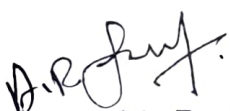



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Assignment Question Paper

Assignment - 01		Date of Issue:	22.07.2019	Marks	10
Course code	CS6704	Course Title	RESOURCE MANAGEMENT TECHNIQUES		
Year	IV	Semester/Section	VII/A	Date of Submission:	26.07.2019

Q.No	Questions	CO
1	Big m: $\min z = 4x_1 + x_2$ Subject to $3x_1 + 4x_2 \geq 20$ $x_1 + 5x_2 \geq 15$ $x_1, x_2 \geq 0$	CO1
2	Simplex method: Min $z = x_2 - 3x_3 + 2x_5$ Subject to $3x_2 - x_3 + 2x_5 \leq 7$ $-2x_2 + 4x_3 \leq 12$ $-4x_2 + 3x_3 + 8x_5 \leq 10$ $x_2, x_3, x_5 \geq 0$	CO1


Name and Signature of the Faculty Incharge
A.P. Saravanan


HoD/CSE


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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Assignment Answer Sheet

Name of the Student : Mohan Raj . P
AU Register Number: 732416104031

Assignment - 01		Date of Issue:	22.07.2019	Marks	10
Course code	CS6704	Course Title	RESOURCE MANAGEMENT TECHNIQUES		
Year	IV	Semester/Section	VII / A	Date of Submission:	26.07.2019

Q.No	Questions	CO
1	Big m: $\min z = 4x_1 + x_2$ Subject to $3x_1 + 4x_2 \geq 20$ $x_1 + 5x_2 \geq 15$ $x_1, x_2 \geq 0$	CO1
2	Simplex method: Min $z = x_2 - 3x_3 + 2x_5$ Subject to $3x_2 - x_3 + 2x_5 \leq 7$ $-2x_2 + 4x_3 \leq 12$ $-4x_2 + 3x_3 + 8x_5 \leq 10$ $x_2, x_3, x_5 \geq 0$	CO1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	5
Presentation Quality	2	2
Timely submission	2	2
Total marks	10	9

Name and Signature of the Faculty Incharge

A.P. Saravanan

Dr. M. Vijayakumar
HoD/CSE

Dr. M. VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tiruppur (Dt).