



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



INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





Criterion 1	Curricular Aspects	100
CHICHOH I	Carriediai Fispects	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	Individual Time Table
3	Students Name List
4	Subject Information Record
5	Syllabus
6	Corrective Action Report
7	Lesson plan
8	Test Plan For Subject
9	Result Analysis Of Test
10	Quality Objective Monitoring Record
11	Corrective Action Report
12	Internal Test Question Paper
13	Internal Test Paper
14	Assignment Question Paper
15	Assignment Answer Sheet



Department : Civil Engineering.

Subject Code & Name : OML 751 & Tasting of Materials

Class & Batch : IV & 2020-21

Semester : VII 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	Quality objective monitoring record	
9	Internal test mark sheet(Consolidated)	Y
10	Internal test question paper	1
11	Model question paper	
12	Slip test question paper	
13	Sample Answer paper for all test(Min-3)	
14	Assignment – schedule and paper	
15	Question bank	
16	Sample university question papers(min 5 QP-recent exam)	
17	Personal Log book – Updated	
18	Lecture Notes	

	Prepared By	Verified By	Approved By
Sign:	S.A. Ne	R PSu-15	J.S Suntanular
Name:	S. A. Ramash	R. Prabhakaran	Dr.T.S.Sivakumara
	Faculty	HOD	Principal

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



INDIVIDUAL TIME TABLE Department of Mechanical Engineering

ENIC YEAR: 2023-2024

Semester: ODD

YEAR/SEM: IV/VII

LTY NAME:								YEA	AR/SEM:	17.7711	
HOUR	1	11	10.40 AM	111	IV	12.35 PM	V	VI	2.50 PM	VII	Viii
DAY/ TIME	9.00 AM to 9.50 AM	9.50 AM to 10.40 AM	to 10.55 AM	10.55 AM to 11.45 AM	11.45 AM to 12.35 PM	to 1.20 PM	1.20 PM TO 2.05 PM	2.05 PM TO 2.50 PM	TO 3.05PM	3.05 PM to 3.50 PM	3.50 PM to 4.30 PM
MONDAY					1						
TUESDAY		том									том
EDNESDAY	том		Break			Lunch			Break		
HURSDAY		4,14	Dieak	том			1	, ,			
FRIDAY		2		том			1 1	1 .			
ATURDAY		44				1 13	, том				
						* ;					

lo	Course Code	Course Name	Acronym	Name of the Staff & Dept.	Hours/Week
-	0.4.754	Taking of Materials	TOM	Mr.S.A.Ramesh AP/Mech	6
	OML751	Testing of Materials	.! "!	TOTAL	6

		Verified by	Authorized by
	Prepared by	Vermed 51	1 /
1:	D.D.	G.A.M.	End & South
	had.	Mr.S.A.Ramesh	Dr.M. Jijayakumar
ne:	O.D.Naveen	HOD	PRINCIPAL
	TIME TABLE I/C		

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 055, Tirupur (Dt).



STUDENTS NAME LIST

Academic Year - 2020 - 2021

ODD SEMESTER

Department: Civil

Year/Sem: IV/VII

S.No.	Register Number	NAME
1.	732417103001	BASKARAN K
2.	732417103002	GAYATHRI N
3.	732417103003	GOWTHAM P
4.	732417103004	LAVANYA M
5.	732417103005	NAVEENA S
6.	732417103006	NIVETHA S
7.	732417103007	SANGAR G
8.	732417103008	SURYA N
9.	732417103009	THARUNKUMAR J
10.	732417103010	VAISHNĄVI P
11.	732417103011	VALLARASU M

	Prepared By 💢	Verified By	Approved By
Sign:	SANCE	R. P.S.	7.5. 3-1.00
Name:	S.A. Ramesk	R. Probhakovan	Dr. T. S. Sivakumar.
	Faculty	HOD,	Principal

ma

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



SUBJECT INFORMATION RECORD

Department

: Testing of Materials

Subject

Year

: IV

Semester

: VII

Last year handled by

: S.A. Ramesh

Percentage of Result (last year)

75 1.

Quality Objectives

1. Identity he types of testing in indom

2. Specify me basics of testing 2 methods

Reference Book

1. Balder vg . T. Jayuan "practial NDT +

2. Callib BD "Elemes of I day different

C:	Prepared By	Approved By
Sign: Name:	S. Ann	SA-nungar
ivaine:	S.A.Ramesh	SA-RADARWAYAKUMARME, Ph.D.
	Faculty	PRINCIPAL PRINCIPAL SASURIE COLLEGE OF ENGINEERING,
		Vijayamangalam - 638 056, Tirupur (Dt).

OBJECTIVE:
To understand the various destructive and non destructive testing methods of materials and its industrial applications.

INTRODUCTION TO MATERIALS TESTING

Overview of materials, Classification of material testing, Purpose of testing, Selection of material. Development of testing, Testing organizations and its committee, Testing standards, Result Analysis, Advantages of testing.

Introduction to mechanical testing, Hardness test (Vickers, Brinell, Rockwell), Tensile test, Impact test (Ized, Charpy) - Principles, Techniques, Methods, Advantages and Limitations, Applications. Bend test, Shear test, Creep and Fatigue test - Principles, Techniques, Methods, Advantages and Limitations, Applications.

Visual inspection, Liquid penetrant test, Magnetic particle test, Thermography test - Principles, Techniques, Advantages and Limitations, Applications. Radiographic test, Eddy current test, Ultrasonic test, Acoustic emission- Principles, Techniques, Methods, Advantages and Limitations, Applications. 9

Macroscopic and Microscopic observations, Optical and Electron microscopy (SEM and TEM) -MATERIAL CHARACTERIZATION TESTING Principles, Types, Advantages and Limitations, Applications. Diffraction techniques, Spectroscopic Techniques, Electrical and Magnetic Techniques- Principles, Types, Advantages and Limitations, Applications.

Thermal Testing: Differential scanning calorimetry, Differential thermal analysis; Thermomechanical and Dynamic mechanical analysis: Principles, Advantages, Applications, 3 Chemical Testing: X-Ray Fluorescence, Elemental Analysis by Inductively Coupled Plasma-Optical Emission Spectroscopy and Plasma-Mass Spectrometry. **TOTAL: 45 PERIODS**

Identify suitable testing technique to inspect industrial component **OUTCOMES:**

Ability to use the different technique and know its applications and limitations

1. Baldev Raj, T.Jayakumar, M.Thavaslmuthu "Practical Non-Destructive Testing", Narosa 2. Cullity, B. D., "Elements of X-ray diffraction", 3rd Edition, Addison-Wesley Company Inc., New

3. P. Field Foster, "The Mechanical Testing of Metals and Alloys" 7th Edition, Cousens Press, 2007.

1. Metals Handbook: Mechanical testing, (Volume 8) ASM Handbook Committee, 9th Edition, 2. ASM Metals Handbook, "Non-Destructive Evaluation and Quality Control", American Society of

3. Brandon D.G., "Modern Techniques in Metallography", Von Nostrand Inc. NJ. 015A, 1986.

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

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



CORRECTIVE ACTION REPORT

Dept.	. civil	Enlashler3	Year	*	IV
Subject	Testing of	Materials	Semester	:	VII

S.No	Unit Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
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2	UT-2	(00 K	-			
3	UT-3	100%.	- A	· ·		
4	07-5	(001.	with the control of t			
5	UT-5	100%	·	· ·		
d	modelGran	100 %				•
7	model con -	100 F.		_		

Prepared By	Approved By
S.A. Mus	SAMO
20	s.A. Ramesh
Faculty	HOD
	S.A.Ramesh

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



(Accredited by NAAC, Under 21 and 128 status) **LESSON PLAN**

Faculty Name

: S. A. Rames A

Designation Assistant Professor

Semester/Year VII / IV

Department Subject / Code

Civil

8

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Tasting of motorials

Academic Year Actual Ref. Remarks Proposed TA Details of Topic Covered S.No. Period Date Period Date UNIT-P INTRODUCTION TO MATERIALS JEJTING. overview of materials 12/7/2 3 2)7/20 2 classification of material destra ココナンか 14/21 3 purpose of testing 15/1/20 5 3 stection of materials 12/120 9 3 DONOLOPMONT OF to ting organizator und iti com x 1= 120 S 0/4/20 ١ testing standards 3 diadysis Advantages of testing 3 MECHANICAL TESTING 2 E/=1/-Introduction to machainal to 2 10 25/7/26 5 25/2/21 11 SIFLES 8 Hardnoss tos-23/3/36 12 22/2/21 ELOT 9/12/10T 3 Emport tost (Fred Charrey) 3 13 28 12120 Bond TPJ1 14 293120 3 118 28 δ 15 Sho.01 +01+ 115/30 3 16 CADOP +OST 3 दाश्वाह fortigue test 3 1/2/20 9 17 overvior of rechanical terting 18 2/8/20 visual inspection 8/8/20 R olalo PENDERONG T 3 1019 120 3 20 Magnetic particle +104 תבו פונו 3 21 112/20 Thiomography 3 2 22 Radiographic 1921 3 23 Eddy Current test 3 24 3 HIST sinourilly depussio Drussion 3

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



SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 055, Tirupur (Dt).



(Accredited by NAAC, Under 21 and 128 status) **LESSON PLAN**

Faculty Name

: S.n Ramesh

Department

CIVIL ONL 151

Subject / Code Academic Year

OWT 121

Designation, Assistant Professor

S.No.	Prop	-	Details of Topic Covered	TA	Ret.		tual	Remarks
-	Date	Period		L	1	Date	Period	
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33	510120	2	specturapic techniques	3_		العالما	2	c_i
34	5/9/20	8	Clorarcal Techniques	3	1	519/23	_\$	8
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36	819120	3	TIM 10 WONROWS	3	,	हीवीश्र	3	
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40	1610/20	5	Thomomechanical)	2	14 aloo	5	11
41	ia lalzo	8	chemical testing	3	2	olubo	8	1
42	مداوارد	3	X-Ray - Thuresconce	3	2	21/9/20	3	
43	מבופונם	3	Elemental andlysis by	3	2	2010/2	3	
44	26191	8	Optical Friesian Sproctrosupy	3	2	2 मिक्स	8	
45	selalan	3	playma-NOSI Starrandry	3	2	20 Alzal	3	

Reference books (Ref):

Teaching Aids (TA):

- 1. Black Board with Chalk
- 2 Overhead Projector
- 3 LCD Projector

4 Others (Field vists, Charts, Cutset Models)

	Prepared by	Nerified by	Authorized by
sien	S.A.11.V	N. Vien	7.5. Sulu 3"
Name	5.B. Ramash	N. Velligiri	Dr. T.S. Sivakumary
	Faculty	ноб	PRINCIPAL O
			1

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

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



TEST PLAN FOR SUBJECT

Subject

: Testing of materials

Faculty: S. A. Rumesh

Semester

Year: \V

Department: Civil Engineering

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	Unit test-I	4.8.20	4.8-20	
2.	Unit test-II	2.8.20	2. 8.20	
3.	Unit test - III	26.9.20	26.8.20	2 12 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
4.	Unit test-IV	6. 10-20	6.10.20	
5.	Unit test-V	13.10.20	13. 10. 20	
6	naoidaltest - I	28.10.20	2810.20	9
7.	mockl enam - II	7.11.20	7 · 11 · 20	v

	Prepared By	Approved By
Sign:	S.A. Mary	R.PS-
Name:	S.A. Ramashi	R. Prakhaharan
	Faculty	HOD



-	h .	
201	10	-

: Tosting of Meterials.

Date : 6- 9.20

Class

IV.

Department: Civi

Semester

V11

Exam details & date

: Unit Test

Faculty

: S.A. Ranesh

Number of students

: 11

No. of students attended

: 11

No. of students absent

: —

No. of students passed

11

No. of students failed

Percentage of failures

: 07.

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students		-	£ %	-	

	Prepared By	Approved By
Sign:	5 A. Mury	R. PSg
Name:	S.A. Ramesh	R. Probakana
	Faculty	HODENO

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vilay amangalam - 533 058, Ticapur (20).



Subi	oct

: Testing of Meterials.

Date : 1 . 9 . 1.0

Class

Department: Civi

Semester

Exam details & date

: Unit Test - II 29.8.23 : S.A. Ramesh

Faculty

Number of students

11

No. of students attended

: 11

No. of students absent

No. of students passed

No. of students failed

Percentage of failures

: 0%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	. –	-	11	-	_

	Prepared By	Approved By
Sign:	5 A. Nurs	R. PSug
Name:	S.A. Ramesh	R. Probhakavan
,	Faculty	HOD



c	١.,		
Su	DI	e	ct

: Testing of Meterials.

Date: 28-9.20

Class

Department: CIVI

Semester

Exam details & date

: Unit Test - II 29.9.20 : S.A. Ramesh.

Faculty

Number of students

11

No. of students attended

: 11

No. of students absent

No. of students passed

: 11

No. of students failed

Percentage of failures

: 0%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	_	_	17	4	_

	Prepared By	Approved By
Sign:	5 A. Muris	R. PSug
Name:	S.A. Ramesh	R. Probhakaran
	Faculty	HOD Mo
		DEM.VIJAYAKUMAR ME., PI

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





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2	u	U	ŧ	е	a

: Testing of Metarials.

Date : 8-1010

Class

Department: Cnv r

Semester

Exam details & date

: Unit Test - IV 5,6-10-20 : S.A. Ramesh

Faculty

Number of students

No. of students attended

No. of students absent

No. of students passed

No. of students failed

Percentage of failures

: 0%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	31-100
No. of Students		-	11	-	

	Prepared By	Approved By
Sign:	S A. Numes	RFS
Name:	S.A. Ramesh	R. Pilhakama
	Faculty	DOMPRIAYARUMAR WE TO
		SASURE ON LEGE OF ENGINERONG Vision annapolation and total from the fire



SASURIE

Approved by ARCTE, New Duty, Iffiliated to Arma University Channel

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Street like	100	SERVICE SPACE	۰

: Testing of Metables

Date : (5.40)0

Class

N W

Department Crists

Sementer

181

Exam details & date

: Unit Test - V & 13.10.20

Faculty

: S.A. Ranesh

Number of students

- 1000

No. of students attended

- House

No. of students absent

: —

No. of students passed

7 1

No. of students failed

= __

Percentage of failures

: 07.

RESULT DATA:

Marks	0-25	25-50	51-75	75-90	91-100
No. of Students		To the state of th	1/	Company Company	

	Prepared By	Approved By		
Sign:	5 8. Numer	R. PS-3		
Name:	S.A. Ramein	R. Prahakanan		
-	Faculty	Dr.M.VIJAYAKUMAR INC.		



QUALITY OBJECTIVE MONITORING RECORD

Department: Mechanical Engineering

Year : IV

Semester : [/1]

Subject : Tosting of materials

		Unit	Test-I	Unit "	l'est-ll	Unit 7	est-III	Unit 7	est-IV	Unit	Fest-V
	Quality Objectiv e.	Expecting result	Obtained result	Expecting result	Obtained result	Expecting result	Obtained result	Expecting result	Obtained result	Expecting result	Obtained result
an construction of the con	1, 40 1, 10	leoy.	(so:t-	601-	loor	100%	1001-	100x	100y.	100%	Jaux
Printed and the control of the contr	70 ref 100x 1	1900 Exan	sel T (oor	9	100%.	-					

	Prepared By	Approved By
Sign:	S.A. rung	S. A. Am
Name:	S. A-Ramesy	S-A-Ramosly
	Faculty	Dr.M.VIJAYAKUMAR ME., Ph.D.
	The state of the s	SASURIE COLLEGE OF ENGINEERING.



CORRECTIVE ACTION REPORT

Dept.

c ivil

Year

Subject

: Testing of Materials

Semester

					4	
S.No	Unit Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
l	UT-1	(00%.)		_	
2	UT-2	(00 K	_	_	_	
3	UT-3	100 %.	1		_	8
4	07-5	(001.		,	_	
2	いて -5	100%	-	-	_	4
6	model Gras	- 100 %		-	_	
7	model com -II	100 F.	_	_		

	Prepared By	Approved By
Sign:	S.A.M	SAmuel
Name:	S.A. Ramesh	S.A. Ramosh
	Faculty	IIOD WO

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



	Model Exam	ination	Date/Session	28.10.2020 Mi	irks 100			
Course	OML751	Course Title	TESTING OF MATERIALS					
Regula	tion 2017	Duration	3 Hours	Academic Year	2020-2021			
Year	IV	Semester	VII	Department	CIVIL			
COUR!	SE OUTCOMES							
CO1:	Identify suitable	testing technique to	inspect industri	al component				
CO2:	Ability to use the	different technique	and know its ap	oplication and limit	ations			
CO3:	-	Analyze complex situations and make informed decisions that consider ethical, legal, and societal implication						
CO4:	Maintain transpa judgment.	rency and avoid situ	ations that coul	l compromise their	professional			
CO5:	Global perspectiv	ve on ethical issues a	and practices in	Engineering.				

Q.N	Question	CO	BTS
0.	PART A		
	(Answer all the Questions $10 \times 2 = 20 \text{ Marks}$)		
1	What is the need for standards in testing	COI	RE
2	What is the difference between Destructive Testing and Non Destructive testing?	COL	RE
3	Why the tensile samples are dog-bone shaped	COI	RE
4	What is the significant difference between Rockwell hardness testing and Vicker's hardness testing?	CO1	RE
5	State the principle of liquid penetrates testing.	CO1	EV
6	What is the purpose of lead in testing?	CO2	RE
7	Why electron microscope gives better resolution than optical microscope?	CO2	RE
S	What is the difference between Energy dispersive and wave dispersive spectroscopy?	CO2	RE
9	What does Differential scanning calorimeter do and how does it work?	CO2	RE
10	What are the basic components of Mass Spectrometer?	CO2	RE
	PART B		
	(Answer all the Questions 5 x 13 =65 Marks)		
la	Explain briefly about the classification of materials testing and testing standards	COI	EV
	OR .		
11	Discuss briefly the testing organization and its committees	COL	CR
	Draw S-N diagram (schematic) for mold steel and for Aluminum Explain how S-N diagram is plotted	CO1	CR
2b	Write briefly about the constant load creep testing machines	COI	UN
3 a	Explain Magnetic particle testing and why metals with low coercive force s difficult to test in Magnetic particle inspection technique	CO1	EV
	OR		
3 b	Explain the principle, advantages and limitations of Acoustic emission techniques	CO2	EV
4 a	Explain the interaction of electron beam with matter and explain how they are used to analyse the structural and compositional features	CLAN	EV

Dr.M.VIJAYAKUMAR ME., Ph.D.,
FRINCIPAL
SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 656. Tirupur (Dt).

	OK MO	1			
146	Explain any two magnetic techniques used for characterization of materials	COL	EV		
153	Explain the principle and applications of thermo-mechanical and dynamic mechanical analysis	(6)	EV		
	UR				
156	Explain how Optical Emission Spectroscopy works and mention its limitations	(05	EV		
-	PART C (Answer all the Questions 1 x 15 = 15 Marks)				
16 1	6 a How Ductile to Brittle Transition Temperature (DB111 is determined from toughness versus temperature riot and explain the factors affecting DBTT OR				
165	(i) When a magnetic field strength of 0.2. Tesla is applied on an electromagnetic lens perpendicular to the electron beam direction with an applied voltage of 20 kV, what would be the radius of 15-11 kg and charge is electron beam (Mass of electron is 9.109.10.19 coulombs (T)	CO5	RE		
	 (ii) Discuss on the effect of various parameters on the Depth of penetration im Eddy current testing (3) 				

S.A. Mayor Course Faculty

(Name /Sign / Date)

S. A. Ramesh

S.A. mun Sopte

(Name /Sign / Date), S. A. Rouwsh Principal

(Name /Sign / Date)

DEMINITARY ME, Ph.
PRINCIPAL
SASURE COLLEGE OF ENGINEERING

SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 256, Tirupur (OU.



College of Engineering

Internal Assessment Test Answer Book

Name	Nivetha	2		Year/ Scmester/Scetio	יי נט טונ
Register Number	732417103006	Date/Session	2810.2023	Department	CIVIL
Course code	OML 751	Course Title	Testing	of naterial	
Internal Assessment Test IAT 1			IAT 2	IAT 3 N	lodel 🔽
Name and Signature of the Invigilator with date			G.	fla of 28 (10/23	

Instructi	ion to	the Student:	Put tick mar	k to t	he question a	ttended	l in the column	n against question.
I	Part	A		Part B/ Part C				
	V		0.210	1	a	/	b	Total Marks
Q. No.		Marks	Q. NO.		Marks		Marks	
1	/	2_	11				12	12
2	~	2	12			 	11	11
3		2	13			/	10	10
4	~	2	14		_		_	_
5		2	15			/	10	(0
6		2	16				8	8
7	-	2					and Total	51
8		2			S. A. PAMGON. S. A. Margania			
9		2				C ∧	10 000	
10		2_	71			>. F).	pm 33/10	
Total	-	20	Gra	nd T	otal	Name and Signature of the Examiner with date		Signature

/		To be fil	lled by the	examiner			
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	36	64	_	_	-	_	100
Marks Obtained	23	3-8	_	_	_	- "	NF
	IQAC	C Audit - Re	marks			1	1900

Month Verified



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



DEPARTMENT OF CIVIL ENGINEERING

Assignment Question Paper

Assignment – 01			Date of Issue:	10.09.202 0	larks	10
Course code	OML751	Course Title	Testing of Materials			
Year	IV	Semester/Section	VII	Date of Submission:	25.09.2	020

Q.No	Questions		
1	Describe the selection of materials	C01	
2	Explain the classification of materials	C01	

S.A. Www. Jolow 20
Name and Signature of the Faculty Incharge

S.A. Ramesh

HoD/Civil

N. Vellingiri

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



Assignment Answer Sheet

Name of the Student : 8, Nhetha

AU Register Number: 732417103006

	Assignment - 01		Date of Issue:	10 09 2026	Marks	6/9
Course code	OML751	Course Title	Testing of Materia	14		
Year	IV	Semester/Section	VII	Date of Submission:	25.09.202	3

Q.No	Questions	co
I	Describe the selection of materials	COI
2	Explain the classification of materials	COI

Mark Allocation

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

Name and Signature of the Faculty Incharge

S.A. Ramesh

HoD/Civil

Vijayamangalam - \$33 (56, Tinupur jOri,



DEPARTMENT OF CIVIL ENGINEERING

Tutorial Question Paper

Tutorial – 01			Date of Issue:	28.07.2018	Marks	10
Course code	CE8392	Course Title	APPLIED HYDRAULICS ENGINEERING			

Q.No	Questions	CO
1	A rectangular channel of 2 m deep and 8 m wide is running full of water. The slope of the bed of the channel is 1 in 950. Take Chezy's constant as 50. Calculate the discharge through the channel.	C402.1
2	Determine the most economical section of rectangular section carrying water at the rate of 0.6 cumecs. The bed slope of the channel is 1 in 2000. Assume Chezy's constant C=50.	C402.1
3	In a given channel y_0 and y_c are two fixed depths, if Q, n and S_0 are fixed. Also, there are three possible relations between y_0 and y_c . Further, there are two cases where y_0 does not exist. Based on these, how the channels are classified?	C402.1

V. Mung 20/1/18

Name and Signature of the Faculty Incharge

V. Maraikumar

HoD/Civil

2. Prabakasan

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

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



DEPARTMENT OF CIVIL ENGINEERING

Tutorial Answer Sheet

Name of the Student : BASKARAN K

AU Register Number: 732117 (0300)

						10
1 11.01.1111			Date of Issue:		Marks	10
Course code	CE8392	Course Title		AULICS ENGINEER		
Year	IV	Semester/Section	VII / A & B	Date of Submissio	n: 18.09.	7011/

Q.No	Questions	CO
a ^p	A rectangular channel of 2 m deep and 8 m wide is running full of water. The slope of the bed of the channel is 1 in 950. Take Chezy's constant as 50. Calculate the discharge through the channel.	C402.1
2	Determine the most economical section of rectangular section carrying water at the rate of 0.6 cumecs. The bed slope of the channel is 1 in 2000. Assume Chezy's constant C=50.	C402.1
3	In a given channel y_0 and y_0 are two fixed depths, if Q, n and S ₀ are fixed. Also, there are three possible relations between y_0 and y_0 . Further, there are two cases where y_0 does not exist. Based on these, how the channels are classified?	C402.5

Mark Allocation

Rubrics	Marks Allocated	Marks obtained	
Problem solving approach	6	6	
Correctness of Answer	2	2	
Timely submission	2	2	
Total marks	10	10	

V. Muf28/7/18
Name and Signature of the Faculty Incharge

V. Monojkumar

HoD/Civil 7

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

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