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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
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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

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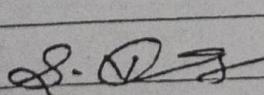
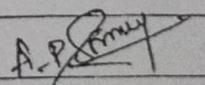
S.No	Description
1	Contents - Course File
2	Time table
3	Students Name List
4	Syllabus
5	Subject Information Record
6	Lesson Plan Schedule
7	Test plan for the Subject
8	Result Analysis
9	Corrective Action Report
10	Quality Objective monitoring record
11	Model Question paper
12	Internal Assessment test Answer Book
13	Assignment question paper
14	Assignment answer sheet

NAME LIST OF THE STUDENTS

Department : S&H
 Class : I EEEE
 Academic Year : 2019-2020

S.No.	Register No.	Name of the Student	Reg/Lat/Re-admn
1	732419105001	AJITH KUMAR S	REGULAR
2	732419105002	DINESH M	REGULAR
3	732419105003	MOHAN S	REGULAR
4	732419105004	NAVEENKUMAR A	REGULAR
5	732419105005	PRAVEEN KUMAR M	REGULAR

19

	Prepared By	Verified By
Sign		
Name	S VENKATESAN Class Advisor	I.JEENA RAJATHY
		HD SASURIE College of Engineering Villiyamangalam, Tirupur - 633 056

Dr.M.VIJAYAKUMAR M.E., Ph.D.,

PRINCIPAL



SASURIE COLLEGE OF ENGINEERING

Villiyamangalam - 633 056, Tirupur (O) :

SUBJECT INFORMATION RECORD

Department

: S8II

Subject

: Engineering Chemistry -

Year

: I

Semester

: I

Last year handled by

: B.Asha.

Percentage of Result (last year)

: 68.5%

Quality Objectives

: To know the basic info of water treatment & eng application Basic concept - base mechanism.

Reference Book

(i) S.S Dora & S.S Uma
"A Text book of engineering chemistry"

(ii) Engineering Chemistry
SRI KRISHNA PUBLICATION

	Prepared By	Approved By
Sign:	J. M. V. MUTHILI	I. J. RAJATHY
Name:	V. MUTHILI	I. JEENA RAJATHY

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



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

SASURIE
College of Engineering
Vijayamangalam, Tirupur - 638 056



TEST PLAN FOR SUBJECT

Subject : Engineering chemistry-I Faculty:

Semester : I Year: I

Department : SQH

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1	Slip Test I	06.09.19	06.09.19	
2	Slip Test II	26.09.19	26.09.19	
3	Slip Test III	15.10.19	15.10.19	
4	Slip Test -IV	15.10.19	15.10.19	
5	Internal Test I	16.09.19	16.09.19	
6	Internal Test II	22.10.19	22.10.19	

	Prepared By	Approved By
Sign:	V. Mythili	I. Jeena Rajathy
Name:	V. MYTHILI	I. JEENA RAJATHY
Faculty		HD

RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : Engineering chemistry - Date : 18.9.19
 Class : I-EEE Department : S & H
 Semester : I
 Exam details & date : Internal Test - I. 16.9.19
 Faculty : V.mythili.
 Number of students : 05
 No. of students attended : 05
 No. of students absent : -
 No. of students passed : 2
 No. of students failed : 3
 Percentage of failures : 60.

RESULT DATA:

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

Prepared By	Approved By
Sign:	
Name: V. MYTHILI	I. JEENA RAJATHY
Faculty	HD

STUDENT
Enrollment No. 20190000000000000000
Date of Birth: 10/10/2000

Dr. M. VIJAYAKUMAR ME., Ph.D.
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CORRECTIVE ACTION REPORT

• Dept. : SF II Year : I
 Subject : Engineering Chemistry - I Semester : I

NON CONFORMANCE REPORT

Expected Result in 80% but achieved
only 40%.

DATE: 24/10/19.

V. m/f/s
Faculty Sig.

ROOT CAUSE ANALYSIS

Lack of deviation knowledge & time
management

DATE: 24/10/19.

V. m/f/s
Faculty Sig.

CORRECTIVE ACTION

Retest will be conducted.

DATE: 24/10/19.

V. m/f/s
Faculty Sig.

VERIFICATION OF CORRECTIVE ACTION

DATE: 24/10/19.

V. m/f/s
Faculty Sig.

	Prepared By	Approved By
Sign:	V. m/f/s	I. Jeen
Name: Dr. M. VIJAYAKUMAR, M.Tech. PRINCIPAL SASURIE COLLEGE OF ENGINEERING Vijaynagar - 633 056, Tirupur (Tn).	N. M. M. H. L.	I. JEENA RAJATHY

RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : Engineering chemistry - I Date : 18.11.19
 Class : I CIVIL Department : S&H
 Semester : I
 Exam details & date : 16.11.19 MODEL EXAMINATION
 Faculty : V. MYTHILI
 Number of students : 5
 No. of students attended : 5
 No. of students absent : 0
 No. of students passed : 1
 No. of students failed : 4
 Percentage of failures : 80

RESULT DATA:

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

	Prepared By	Approved By
Sign:	V. MYTHILI	I. JEENA RAJATHY.
Name:	V. MYTHILI	I. JEENA RAJATHY.
	Faculty	HD

S1KU2R2



Head of QM Department
SASURIE
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 Vijayamangalam - 638 056, Tirupur (Dt).

Rev 0.0

D. 2



CORRECTIVE ACTION REPORT

Dept. : SP-II

Year : I

Subject

Engineering Chemistry - I Semester : I

NON CONFORMANCE REPORT

Expected result in 100%. but
achieved only 0%.

DATE: 18/11/19.

V.mjk

ROOT CAUSE ANALYSIS

Lack in equation balancing to
Derivation

DATE: 18/11/19.

V.mjk.

CORRECTIVE ACTION

Assignment given.

DATE: 18/11/19.

V.mjk.
Faculty Sign

VERIFICATION OF CORRECTIVE ACTION

DATE: 18/11/19.

V.mjk.
Faculty Sign

	Prepared By	Approved By
Sign:	V.mjk	I.Jeo D.
Name:	V.M. VIJAYAKUMAR, Faculty	T.JEENA RAJATHY
	Dr. M. VIJAYAKUMAR M.E., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (D)	HD SASURIE College of Engineering Tirupur - 638 056





QUALITY OBJECTIVE MONITORING RECORD

Department : 8PH

Year : I

Semester : I

Subject : Engineering Chemistry - I

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
	To achieve 100% of result in this academic year	80.	40.	80	40.	100	0.

	Prepared By	Approved By
Sign:	V. mythili	I. Jeena Rajathy.
Name:	V. mythili	I. JEENA RAJATHY.



OR

11b	(i) Explain reverse osmosis process and its advantages. (10) (ii) Difference between temporary and permanent hardness. (6)	CO1 CO1
12a	(i) Derive Langmair adsorption isotherm. What are its limitations ?(8) (ii) Derive Freundlich's adsorption isotherm. What are its limitation. ? (8)	CO2 CO2
12b	OR (i) Derive Michaelis-Menton equation for the rate of an enzyme catalysed reaction. Draw the rate curve and explain how [S] influence the rate. (10) (ii) Discuss the various type of acid-base catalytic reactions. (6)	CO2 CO2
13 a	(i) Discuss one component (water) system in detail. (10) (ii) Differentiate between hardening and nitriding heat treatment process(6)	CO3 CO3
13b	OR (i) Discuss two component (Pb-Ag) system. (10) (i) What arc the significance of alloying. (6)	CO3 CO3
14a	(i) How are fuels classified? Give example for each it. (6) (ii) Distinguish between ultimate and proximate analysis. (10)	CO4 CO4
14b	OR (i) Explain the function of Orsat process. (8) (ii) What are LPG and CNG? Discuss the advantages of LPG over gaseous fuel and CNG over LPG. (8)	CO4 CO4
15a	(i) Explain the working of a Hydrogen Oxygen fuel cell. (8) (ii) Distinguish between Nuclear fusion and Nuclear fission. (8)	CO5 CO5
15b	OR (i) Describe the breeder reactor. (8) (ii) Explain the working of a lead acid battery. (8)	CO5 CO5

V.M.VIJAYAKUMAR
V.M.VIJAYAKUMAR
Course Faculty

(Name /Sign / Date)



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Vijayamangalam - 638 056, Tirupur (Dl).

R. JEEVANA RAJATHY
HoD

(Name /Sign / Date)

I. JEEVANA RAJATHY

Principal
(Name / Sign / Date)

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





DEPARTMENT OF SCIENCE & HUMANITIES

Assignment Question Paper

Assignment - 01			Date of Issue:	02.09.2019	Marks	10
Course code	CY8151	Course Title	Engineering chemistry			
Year	I	Semester/Section	I / A & B	Date of Submission:	09.09.2019	

Q.No	Questions	CO
1	Estimation of hardness by EDTA Method	CO1
2	Differences between Zeolite and Demineralisation process	CO1

V. mylai *V. mythili*
Name and Signature of the Faculty Incharge

R. Geeranjith
HoD/S&H

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

Me
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PRINCIPAL



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