



# 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)

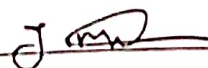

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

#### Table of Contents

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

Department : **S&H**  
 Subject Code & Name : **GTE8291, Environmental Science and engineering**  
 Class & Batch : **EEE, 2018-19**  
 Semester : **II**

S.NO	CONTENTS - COURSE FILE 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	
17	Tutorial Class - schedule and content	
18	Assignment - schedule and paper	
19	PPT - handout	
20	Video - Animation - Soft copy	
21	Question bank	
22	Sample university question papers(min 5 QP-recent exam)	
23	Personal Log book - Updated	
24	Lecture Note	
25	Special Class if any, Approval letter, Schedule, content covered.	

	Prepared By	Approved By
Sign:		
Name:	<b>J. MOHAMMED ALI</b> Faculty	<b>I. JEENA RAJATHY</b> HD



SASURIE  
College of Engineering

CLASS TIME TABLE  
Department : Science and Humanities

FACULTY NAME: J. MOHAMMED ALI

CLASS: EEE

Semester : II (2018-2019)

DAY/TIME	8 55 TO 9 00 a.m	I 9 00 TO 9 50	II 9 50 TO 10 40	10 40 TO 10 55	III 10 55 TO 11 45	IV 11 45 TO 12 35 p.m	12 35 p.m TO 1 20 p.m	V 1 20 TO 2 05	VI 2 05 TO 2 50	2 50 TO 3 00	VII 3 00 TO 3 45	VIII 3 45 TO 4 30 p.m	
MONDAY	PRAYER		EVS	BREAK			LUNCH						
TUESDAY						EVS							
WEDNESDAY													
THURSDAY												EVS	EVS
FRIDAY		EVS	EVS										
SATURDAY													

	Prepared by	Verified by	APPROVAL BY	Authorized by
Sign				
Name	P.T Kiruthika	I. Jeena Rajathy	Mrs. P. Mutuga Priya	Dr. K. Pandurajan
	TIME TABLE I/C	HD	IQAC Auditing Head	Principal

Head of B&H Department  
SASURIE  
College of Engineering  
Vijayamangalam, Tirupur - 638 056

PRINCIPAL  
SASURIE  
College of Engineering

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



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Vijayamangalam, Tiruppur

DEPARTMENT OF SCIENCE AND HUMANITIES

NAME LIST

CLASS: I EEE

S.NO	REG.NO	STUDENTS NAME	DEPT	REMARKS
1	732418105001	BHARATHI A	EEE	
2	732418105002	JAYAPRIYA	EEE	

	Prepared by	Verified by	Authorized by
Sign			
Name	A.P.Saravanan	I Jeena Rajathy	Dr. K Pandiarajan
	Class Advisor	HD	Principal

Head of S&H Department  
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Dr. M. VIJAYAKUMAR M.E., Ph.D.,  
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GES291

## ENVIRONMENTAL SCIENCE AND ENGINEERING

### OBJECTIVES:

- To study the nature and facts about environment.
- To finding and implementing scientific, technological, economic and political solutions to environmental problems.
- To study the interrelationship between living organism and environment.
- To appreciate the importance of environment by assessing its impact on the human world; envision the surrounding environment, its functions and its value.
- To study the dynamic processes and understand the features of the earth's interior and surface.
- To study the integrated themes and biodiversity, natural resources, pollution control and waste management.

### UNIT I ENVIRONMENT, ECOSYSTEMS AND BIODIVERSITY

14

Definition, scope and importance of environment – need for public awareness – concept of an ecosystem – structure and function of an ecosystem – producers, consumers and decomposers – energy flow in the ecosystem – ecological succession – food chains, food webs and ecological pyramids – Introduction, types, characteristic features, structure and function of the (a) forest ecosystem (b) grassland ecosystem (c) desert ecosystem (d) aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) – Introduction to biodiversity definition: genetic, species and ecosystem diversity – biogeographical classification of India – value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values – Biodiversity at global, national and local levels – India as a mega-diversity nation – hot-spots of biodiversity – threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – endangered and endemic species of India – conservation of biodiversity: In-situ and ex-situ conservation of biodiversity. Field study of common plants, insects, birds: Field study of simple ecosystems – pond, river, hill slopes, etc.

### UNIT II ENVIRONMENTAL POLLUTION

8

Definition – causes, effects and control measures of: (a) Air pollution (b) Water pollution (c) Soil pollution (d) Marine pollution (e) Noise pollution (f) Thermal pollution (g) Nuclear hazards – solid waste management: causes, effects and control measures of municipal solid wastes – role of an individual in prevention of pollution – pollution case studies – disaster management: floods, earthquake, cyclone and landslides. Field study of local polluted site Urban / Rural / Industrial / Agricultural.

### UNIT III NATURAL RESOURCES

10

Forest resources: Use and over-exploitation, deforestation, case studies- timber extraction, mining, dams and their effects on forests and tribal people – Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams, benefits and problems – Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies – Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources.

case studies – Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification – role of an individual in conservation of natural resources – Equitable use of resources for sustainable lifestyles. Field study of local area to document environmental assets – river / forest / grassland / hill / mountain.

#### UNIT IV SOCIAL ISSUES AND THE ENVIRONMENT 7

From unsustainable to sustainable development - urban problems related to energy water conservation, rain water harvesting, watershed management – resettlement and rehabilitation of people; its problems and concerns, case studies – role of non-governmental organization- environmental ethics: Issues and possible solutions – climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. – wasteland reclamation – consumerism and waste products – environment production act – Air (Prevention and Control of Pollution) act – Water (Prevention and control of Pollution) act – Wildlife protection act – Forest conservation act – enforcement machinery involved in environmental legislation- central and state pollution control boards- Public awareness.

#### UNIT V HUMAN POPULATION AND THE ENVIRONMENT 6

Population growth, variation among nations – population explosion – family welfare programme – environment and human health – human rights – value education – HIV / AIDS – women and child welfare – role of information technology in environment and human health – Case studies.

TOTAL: 45 PERIODS

#### OUTCOMES:

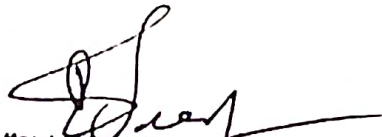
- Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection.
- One will obtain knowledge on the following after completing the course.
- Public awareness of environmental is at infant stage.
- Ignorance and incomplete knowledge has lead to misconceptions
- Development and improvement in std. of living has lead to serious environmental disasters


#### TEXTBOOKS:

1. Benny Joseph, 'Environmental Science and Engineering', Tata McGraw-Hill, New Delhi, 2006.
2. Gilbert M.Masters, 'Introduction to Environmental Engineering and Science', 2nd edition, Pearson Education, 2004.

#### REFERENCES :

1. Dharmendra S. Sengar, 'Environmental law', Prentice hall of India PVT LTD, New Delhi, 2007.
2. Erach Bharucha, "Textbook of Environmental Studies". Universities Press(I) PVT. LTD, Hydrabad, 2015.
3. G. Tyler Miller and Scott E. Spoolman, "Environmental Science", Cengage Learning India PVT. LTD, Delhi, 2014.
4. Rajagopalan, R. 'Environmental Studies-From Crisis to Cure', Oxford University Press, 2005.

  
Head of SEH Department  
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### SUBJECT INFORMATION RECORD

Department : S&H

Subject : Environmental Science and engineering

Year : 2018-19

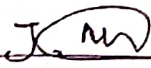
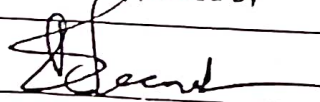
Semester : II

Last year handled by : S. Vijayalakshmi

Percentage of Result (last year) : 75%

Quality Objectives : To Produce above 80% result of this academic year.

1. Gilbert, M. Master, "Introduction to environmental engineering and science, 2<sup>nd</sup> edition Pearson education, 2004

	Prepared By	Approved By
Sign:		
Name:	J. MOHAMMED ALI	J. JEENA RAJATHY
	Faculty	HD





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LESSON PLAN

Department  
Faculty Name  
Subject Code & Title  
Class

WITH EEE  
J. MOHAMEDALI  
GE8291 ENVIRONMENTAL SCIENCE AND ENGINEERING  
1 Year

Date: 21.1.19  
Semester: II

S.No.	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD
	Date	Period				Date	Period	
<b>UNIT I ENVIRONMENT, ECOSYSTEMS AND BIODIVERSITY ( 14 hrs / 14 periods )</b>								
1	21.1.19	2	Definition, scope and importance of environment and need for public awareness	1.2	1.2	21.1.19	2	
2	22.1.19	1	concept of an ecosystem and structure and function of an ecosystem	1.2	1.2	22.1.19	1	
3	22.1.19	7	producers, consumers and decomposers, energy flow in the ecosystem and ecological succession	1.2	1.2	23.1.19	6	
4	24.1.19	8	food chains, food webs and ecological pyramids	1.2	1.2	24.1.19	5	
5	25.1.19	1	Introduction, types, characteristic features, structure and function of the (a) forest ecosystem (b) grassland ecosystem (c) desert ecosystem (d) aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	1.2	1.2	24.1.19	6	
							7	
							8	
6	25.1.19	2	Introduction to biodiversity definition genetic, species and ecosystem diversity	1.2	1.2	25.1.19	1	
7	28.1.19	2	biogeographical classification of India value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values	1.2	1.2	25.1.19	2	
8								
8	29.1.19	1	Biodiversity at global, national and local levels	1.2	1.2	25.1.19	7	
9	30.1.19	7	India as a mega-diversity nation	1.2	1.2	28.1.19	2	
10	31.1.19	8	hot-spots of biodiversity	1.2	1.2	28.1.19	8	
11	1.2.19	1	threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts	1.2	1.2	29.1.19	1	
12	1.2.19	2	endangered and endemic species of India	1.2	1.2			
13	21.2.19	2	conservation of biodiversity In-situ and ex-situ conservation of biodiversity. Field study of common plants, insects, birds; Field study of simple ecosystems	1.2	1.2	4.2.19	2	
							7	
14	5.2.19	1	pond, river, hill slopes, etc	1.2	1.2	8.2.19	8	
<b>UNIT II ENVIRONMENTAL POLLUTION ( 8 hrs / 8 periods )</b>								
14	7.2.19	7	Definition	1.2	1.2	11.2.19	2	

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

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16	7.2.19	8	causes, effects and control measures of: (a) Air pollution (b) Water pollution (c) Soil pollution (d) Marine pollution (e) Noise pollution (f) Thermal pollution (g) Nuclear hazards	1.2	1.2	14.2.19	7		
17	8.2.19	1	solid waste management: causes, effects and control measures of municipal solid wastes	1.2	1.2	14.2.19	8		
18	8.2.19	2	role of an individual in prevention of pollution	1.2	1.2	15.2.19	7		
19	11.2.19	2	pollution case studies	1.2	1.2	15.2.19	8		
20	12.2.19	4	disaster management: floods, earthquake, cyclone and landslides	1.2	1.2	15.2.19	8		
21	14.2.19	7	Field study of local polluted site	1.2	1.2	15.2.19	8		
22	14.2.19	8	Urban / Rural / Industrial / Agricultural	1.2	1.2	15.2.19	9		
<b>UNIT III NATURAL RESOURCES (10 hrs / 10 periods)</b>									
23	15.2.19	1	Forest resources: Use and over-exploitation, deforestation, case studies- timber extraction, mining, dams and their effects on forests and tribal people	1.2	1.2	7.3.19	7		
24	15.2.19	2	Water resources: Use and over- utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems	1.2	1.2	7.3.19	8		
25	18.2.19	2	Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies	1.2	1.2	16.3.19	2		
26	21.2.19	7	Food resources: World food problems, changes caused by agriculture and overgrazing.	1.2	1.2	18.3.19	8		
27	22.2.19	8	Effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies	1.2	1.2	18.3.19	8		
28	22.2.19	7	Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, case studies	1.2	1.2	15.3.19	8		
29	22.2.19	6	Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification	1.2	1.2	19.3.19	7		
30	25.2.19	2	role of an individual in conservation of natural resources	1.2	1.2	19.3.19	7		
31	26.2.19	4	Equitable use of resources for sustainable lifestyles. Field study of local area to document environmental assets	1.2	1.2	19.3.19	7		
32	26.2.19	4	River / forest / grassland / hill / mountain	1.2	1.2	19.3.19	7		
<b>UNIT IV SOCIAL ISSUES AND THE ENVIRONMENT (7 hrs / 7 periods)</b>									


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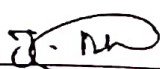
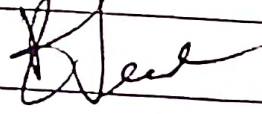
### TEST PLAN FOR SUBJECT

Subject : ENVIRONMENTAL SCIENCE. ENGINEERING Faculty: J. MOHAMMED ALI

Semester : II Year: 2018-19

Department : S&H

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	Internal Test - I	26.2.19	26.2.19	
2.	Internal Test - II	24.3.19 to 9.3.19	28.3.19	Symposium
3.	Internal Test - III	25.3.19 to 30.3.19	8.4.19	,

	Prepared By	Approved By
Sign:		
Name:	J. MOHAMMED ALI	I. JEENA RAJATHY
	Faculty	Head of S&H Department

33	28.2.19	7	From unsustainable to sustainable development urban problems related to energy	1.2	1.2	19.3.19	8	
34	28.2.19	8	water conservation, rain water harvesting, watershed management and resettlement and rehabilitation of people its problems and concerns, case studies	1.2	1.2	19.3.19	8	
35	1.3.19	7	role of non-governmental organization environmental ethics: Issues and possible solutions climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies	1.2	1.2	19.3.19	8	
36	1.3.19	8	wasteland reclamation consumerism and waste products environment production act	1.2	1.2	19.3.19	8	
37	5.3.19	4	Air (Prevention and Control of Pollution) act and Water (Prevention and control of Pollution) act	1.2	1.2	27.3.19	6	
38	7.3.19	7	Wildlife protection act Forest conservation act	1.2	1.2	27.3.19	6	
39	7.3.19	8	enforcement machinery involved in environmental legislation central and state pollution control boards Public awareness	1.2	1.2	27.3.19	6	
<b>UNIT V HUMAN POPULATION AND THE ENVIRONMENT (6 hrs / 6 periods )</b>								
40	8.3.19	7	Population growth, variation among nations	1.2	1.2	1.4.19	7	
41	8.3.19	8	population explosion family welfare programme	1.2	1.2	1.4.19	7	
42	11.3.19	2	environment and human health human rights	1.2	1.2	1.4.19	7	
43	12.3.19	4	value education HIV / AIDS	1.2	1.2	1.4.19	8	
44	14.3.19	7	women and child welfare	1.2	1.2	1.4.19	8	
45	14.3.19	8	role of information technology in environment and human health Case studies	1.2	1.2	1.4.19	8	

**Reference books (Ref):**

1. Dharmendra S. Sengar, 'Environmental law', Prentice hall of India PVT LTD, New Delhi, 2007.
2. Erach Bharucha, — Textbook of Environmental Studies||, Universities Press(I) PVT, LTD, Hyderabad, 2015.
3. Rajagopalan, R, 'Environmental Studies-From Crisis to Cure', Oxford University Press, 2005.
4. G. Tyler Miller and Scott E. Spoolman, —Environmental Science||, Cengage Learning India PVT, LTD, Delhi, 2014

**Teaching Aids (TA):**

1. Black Board with Chalk
2. LCD Projector
3. Others (Field visits, Charts, Cutset Models)

Sign	Prepared by	Verified by	Authorized by
Name:	J. MOHEEMEDIN Faculty	T. JEEVA RATHNA HoD	Dr. B. PANDIRAJAN Principal

Head of S&H Department  
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### RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : ENVIRONMENTAL Science and engineering Date : 28.2.19

Class : EEE Department : SEH

Semester : II

Exam details & date : Internal Test - I, 26.2.19

Faculty : J. MOHEMMED ALI

Number of students : 02

No. of students attended : 01

No. of students absent : 01

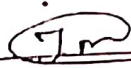
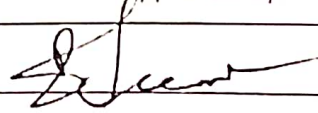
No. of students passed : 01

No. of students failed : -

Percentage of failures : -

**RESULT DATA:**

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

	Prepared By	Approved By
Sign:		
Name:	J. MOHEMMED ALI	J. JEENA RATATHY
	Faculty	HD

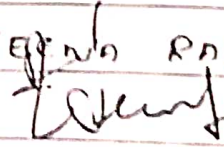
Dr. M. VIJAYAKUMAR M.S., Ph.D.  
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Head of SEH Department  
**SASURIE**  
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**CORRECTIVE ACTION REPORT**

Dept. : SEH Year : 2018-19  
 Subject : Environmental Science and Engineering Semester : II

NON CONFORMANCE REPORT	achieved 100% Result.	Faculty Sign
DATE: <u>28/2/19</u>		
ROOT CAUSE ANALYSIS	-	Faculty Sign
DATE: <u>28/2/19</u>		
CORRECTIVE ACTION	-	Faculty Sign
DATE: <u>28/2/19</u>		
VERIFICATION OF CORRECTIVE ACTION	✓ <u>Successful</u>	Faculty Sign
DATE: <u>28/2/19</u>		

	Prepared By	Approved By
Sign:	<u>J. MOHAMED ALI</u>	<u>J. JEEVA RAJATHY</u>
Name:		
	Faculty	Head of SEH Department

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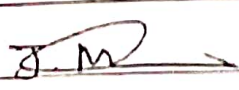
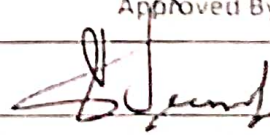
**Dr. M. VIJAYAKLIMAN** M.E., Ph.D.  
Professor  
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Vijayamaangalam - 638 056 Tirupur (Dt).

## RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : EV& Date : 2.3.19  
 Class : EEG Department : SBH  
 Semester : II  
 Exam details & date : Internal Test - II  
 Faculty : J. MOHEMMED ALI  
 Number of students : 02  
 No. of students attended : 01  
 No. of students absent : 01  
 No. of students passed : 01  
 No. of students failed : -  
 Percentage of failures : 0%.

### RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	-	-	-	-	01

	Prepared By	Approved By
Sign:		
Name:	J. MOHEMMED ALI	I. JEENU RAJAN
	Faculty	HD

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Head of SBH Department  
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College of Engineering  
Vijayamangalam, Tirupur-686 006

(11/01)

CORRECTIVE ACTION REPORT

Dept. : 21-3-19

Year : 2018-19

Subject : EVS

Semester : II

NON CONFORMANCE REPORT

Expected 100% result obtained 100%

DATE: 4.3.19

J.M.  
Faculty Sign

ROOT CAUSE ANALYSIS

DATE: 4.3.19

J.M.  
Faculty Sign

CORRECTIVE ACTION

DATE: 4.3.19

J.M.  
Faculty Sign

VERIFICATION OF CORRECTIVE ACTION

Verified

DATE: 4.3.19

J.M.  
Faculty Sign

	Prepared By	Approved By
Sign:	J.M.	
Name:	J. MOHAMMED ALI Faculty	I. DEENA RAJATHY HD
		Head of EAM Department


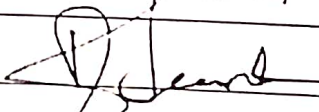


## RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject : EVS Date : 12.4.19  
 Class : EEE Department : S&M  
 Semester : II  
 Exam details & date : Model examination  
 Faculty : J. MOHAMMED ALI  
 Number of students : 02  
 No. of students attended : 01  
 No. of students absent : 01  
 No. of students passed : 01  
 No. of students failed : 02  
 Percentage of failures : 67.

### RESULT DATA:

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

	Prepared By	Approved By
Sign:		
Name:	J. MOHAMMED ALI	J. JEENA RAJATHI
	Faculty	HD

SC/AMC 3.10






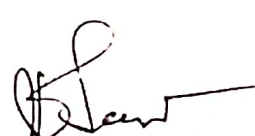
**Dr. M. VIJAYAKUMAR ME., Ph.D.**  
 PRINCIPAL  
**SASURIE COLLEGE OF ENGINEERING,**  
 Vijayamangalam - 638 056, Tirupur (Dt).

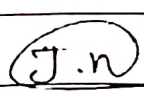
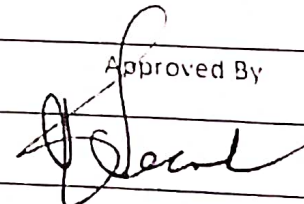
Head of S&M Department  
**SASURIE**  
 College of Engineering  
 Vijayamangalam, Tirupur - 638 056

CORRECTIVE ACTION REPORT

Dept. : S&H  
Subject : EVS

Year : 2018-19  
Semester : II

NON CONFORMANCE REPORT	
100% result was obtained	
DATE : 12.4.19	Faculty Sign
ROOT CAUSE ANALYSIS	
-	
DATE : 12.4.19	Faculty Sign
CORRECTIVE ACTION	
-	
DATE : 12.4.19	Faculty Sign
VERIFICATION OF CORRECTIVE ACTION	
Verified	
DATE : 12.4.19	Faculty Sign

	Prepared By	Approved By
Sign:		
Name:	J. MOHAMED ALI	J. JENA RAJATHY
	Faculty	HD



### QUALITY OBJECTIVE MONITORING RECORD

Department : S.R.J  
Year : 2018-19  
Semester : II  
Subject : Environmental science and engineering

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	expect best above 50% result	100%	100%	100%	100%	100%	100%

	Prepared By	Approved By
Sign:	<u>J.M.</u>	<u>[Signature]</u>
Name:	<u>J. MOHAMMED ALI</u>	<u>J. JEEVA SANKAR</u>
	Faculty	HD

Register Number: \_\_\_\_\_


  
SASURIE INSTITUTIONS

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College of Engineering  
Vijayamangalam - Tirupur

Model Examination - I			Date/Session	08.04.2019 / EN	Marks	100
Course code	GE8291	Course Title	Environmental Science and Engineering			
Regulation	2017	Duration	3 Hours	Academic Year	2018 -2019	
Year	I	Semester	II	Department	EEE	
<b>COURSE OUTCOMES</b>						
CO1:	Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection					
CO2:	One will obtain knowledge on the following after completing the course.					
CO3:	Public awareness of environmental is at infant stage.					
CO4:	Ignorance and incomplete knowledge has lead to misconceptions					
CO5:	Development and improvement in std. of living has lead to serious environmental disasters					

.No.	Question	CO	BTS
<b>PART A</b> (Answer all the Questions 10 x 2 = 20 Marks)			
1	Describe energy flow in an ecosystem.	CO1	U
2	Discuss about the ecological succession?	CO1	U
3	Write a note on CFC.	CO1	R
4	Mention the causes and effects of acid rain.	CO2	
5	Define deforestation.	CO2	R
6	What is mean by overgrazing? Accounts its impacts.	CO3	R
7	What are greenhouse gases?	CO3	R
8	Define environmental audit.	CO4	R
9	What is population explosion?	CO4	
10	Write its consequences of population explosion.	CO5	R

**PART B**  
(Answer all the Questions 5 x 13 = 65 Marks)

11a	i) Write the importance of protecting the biodiversity of earth. (6) ii) Explain the major factors that are responsible for the loss of biodiversity	CO1	R
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11b	i. Elucidate any one of the models of energy flow in an ecosystem. ii. With a neat sketch, interpret the oxygen cycle.	(7) (6)	(CO1)	R
12a	i) Write informative notes on water treatment process ii) Suggest the methods to control water pollution	(7) (6)	(CO2)	R
OR				
12b	i) State how acid rain is formed and what are the adverse effects on environment. ii) Enumerate the sources and removal of heavy metals.	(6) (7)	(CO2)	R
13a	i) Describe the changes caused by agriculture and overgrazing? ii) Explain how is wind energy harnessed? What are the advantages and limitation.	(7) (6)	(CO3)	U
OR				
13b	i) Explain the environmental effects of extracting and using mineral resources, ii) Write informative note on modern agriculture.	(7) (6)	(CO3)	R
14a	Enumerate on environmental ethics.		(CO4)	R
OR				
14b	i) Explain the major urban problems related to energy. ii) What is an NGO? Find and mention of its role in environmental protection.	(7) (6)	(CO4)	R
15a	What is HIV? Explain the transmission of HIV and how can it be prevented.		(CO5)	R
OR				
15b	What is the universal declaration of Human Rights? What is its importance in achieving the goals of equity, justice and sustainability?		(CO5)	R
<b>PART C</b> (Answer all the Questions 1 x 15 = 15 Marks)				
16a	Discuss the effects of modern agriculture due to usage of fertilizers and pesticides.		(CO2)	U
OR				
16b	Discuss the origin of HIV, modes of transmission, symptoms and control		(CO5)	U

*J. Mohamed*

Course Faculty

(Name / Sign + Date)

J. Mohamed

*D. Jeeva*

HOD

(Name / Sign + Date)

D. Jeeva

*Dr. M. Vijayakumar*

Principal

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Internal Assessment Test Answer Book

Name	JAYA PRIYA			Year/ Semester/Section	I / II
Register Number	732418105002	Date/Session	8/4/19/AN	Department	EEE
Course code	GE 22 91	Course Title	Environmental Science and Engineering		
Internal Assessment Test	IAT 1 <input type="checkbox"/>	IAT 2 <input type="checkbox"/>	IAT 3 <input type="checkbox"/>	Model	<input checked="" type="checkbox"/>
Name and Signature of the Invigilator with date	S. Venkatesan 8/4/19				

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	✓	4, 6		10
2	✓	2	12	✓	7, 6		13
3	✓	2	13			✓ 10	10
4	✓	2	14	✓	13		13
5	✓	2	15	✓	13		13
6	✓	2	16	✓	7, 8		15
7	✓	2	Grand Total				74
8	✓	2	94 Grand Total				J. Mohammed Ali 8/4/19 Name and Signature of the Examiner with date
9	✓	2					
10	✓	2					
Total		20					

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	30	20	20	20	10		100
Marks Obtained	30	16	15	20	10		91

IQAC Audit - Remarks

Marks Verified

J. Jeena Rajathi  
Name and Signature of the IQAC member

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**SASURIE**  
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**DEPARTMENT OF SCIENCES AND HUMANITIES**

**Assignment Question Paper**

Assignment - 01			Date of Issue:	18.02.2019	Marks	10
Course code	GE S291	Course Title	Environmental Science and Engineering			
Year	1	Semester/Section	II / A & B	Date of Submission:	23.02.2019	

Q.No	Questions	CO
1	Explain about food chain in a grassland	CO1
2	Explain the process of Ecological succession	CO2

Name and Signature of the Faculty Incharge

[ J. Mohammed Ali ]

HOD/S&H/

P. JEEVA RAJATHY

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**DEPARTMENT OF SCIENCES AND HUMANITIES**

**Assignment Answer Sheet**

Name of the Student : **JAYA PRIYA**

AU Register Number: **732418105002**

Assignment - 01			Date of Issue:	18.02.2019	Marks	10
Course code	GE 8291	Course Title	Environmental Science and Engineering			
Year	I	Semester/Section	II - A & B	Date of Submission:	23.02.2019	

Q.No	Questions	CO
1	Explain about food chain in a grassland	CO1
2	Explain the process of Ecological succession	CO2

**Mark Allocation**

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

J. Mohammed Ali  
23/2/2019

Name and Signature of the Faculty Incharge

J. Mohammed Ali

P. Jeena Rajajay  
HOD/S&H

P. JEENA RAJAJAY

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