



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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1	Contents - Course File
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Department : CIVIL ENGINEERING
 Subject Code & Name : CE8392 & Engineering Geology
 Class & Batch : II Year / III Sem (2017-2020)
 Semester : III Sem

CONTENTS - COURSE FILE

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

Prepared By	Approved By
<i>[Signature]</i>	<i>[Signature]</i>
<i>[Signature]</i> Faculty	N. Sathkumaran HD

[Signature]
Dr. M. VIJAYAKUMAR ME., Ph.D.,
 PRINCIPAL
 SASURIE COLLEGE OF ENGINEERING
 Vijayamangalam - 638 056, Truapur



INDIVIDUAL TIME TABLE

w.e.f : 02 07 2018

Department : Civil Engineering
Class : II

HOUR	8.58 a.m. TO 9.00a.m.	I 09.00a.m. TO 09.55 a.m.	II 09.55a.m. TO 10.45 a.m.	10.45a.m. TO 10.55 a.m.	III 10.55 a.m. TO 11.45 a.m.	IV 11.45 a.m. TO 12.35 p.m.	12.35 p.m. TO 1.20 p.m.	V 1.20 p.m. TO 2.05 p.m.	VI 2.05 p.m. TO 2.50p.m.	2.50 p.m. TO 3.00 p.m.	VII 3.00 p.m. TO 3.45 p.m.	VIII 3.45 p.m. TO 4.30 p.m.			
MONDAY	PRAYER			BREAK		EG	LUNCH			BREAK					
TUESDAY															
WEDNESDAY			EG					EG				EG			
THURSDAY															
FRIDAY															
SATURDAY					EG										

S No	Subject Code	Name of the Subject	Name of the Staff & Department	No of hours
1	CE8392	Engineering Geology	Ms M Poojitha	4
			TOTAL	4

	Prepared by	Verified by	Authorized by
Sign:	<i>M. Poojitha</i>	<i>N. Sathishkumar</i>	<i>Dr.K.Pandiarajan</i>
Name:	M. Poojitha EMC I/C	N. Sathishkumar HD I/C	Dr.K.Pandiarajan Principal


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SASURIE
COLLEGE OF ENGINEERING
Vijayamangalam - 638 056, Tiruppur.

Academic year-2018-2019

Department of civil engineering
IIYEAR

S.No.	Reg.No	Name of the student
1	732417103001	K.Baskaran
2	732417103002	N.Gayathri
3	732417103003	P.Gowtham
4	732417103004	M.Lavanya
5	732417103005	S.Naveena
6	732417103006	S.Nivetha
7	732417103007	G.Sankar
8	732417103008	N.Surya
9	732417103009	J.Tharun kumar
10	732417103010	P.Vaishnavi
11	732417103011	M.Vallarasu
12	732417103012	S.Vijay

Sign		
Name	T. Nivetha	N. Sathashekumar
	Class Advisor	HD/IC

Head. Dept. Of Civil

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SUBJECT INFORMATION RECORD

Department : CIVIL ENGINEERING

Subject : Engineering Geology.

Year : II Year

Semester : III Sem

Last year handled by : C.S. Arvinthkumar

Percentage of Result (last year) : 80

Quality Objectives : To make the students understand the importance of geological knowledge

Reference Book : 1. Vaughese, P.c " Engineering Geology for Civil Engineer" Hall of India Learning Pvt Ltd. 2012.
2. Parbinsingh "A Textbook of Engineering and General Geology" Katson publication house Ludhiana 2009

	Prepared By	Approved By
Sign:	M. Poojitha	N. Satheskumar
Name:	M. Poojitha Faculty	N. Satheskumar HD

OBJECTIVE:

- ☑ At the end of this course the students will be able to understand the importance of geological knowledge such as earth, earthquake, volcanism and to apply this knowledge in projects such as dams, tunnels, bridges, roads, airport and harbor.

UNIT I PHYSICAL GEOLOGY

9

Geology in civil engineering – branches of geology – structure of earth and its composition weathering of rocks – scale of weathering – soils - landforms and processes associated with river, wind, groundwater and sea – relevance to civil engineering. Plate tectonics – Earth quakes – Seismic zones in India.

UNIT II MINEROLOGY

9

Physical properties of minerals – Quartz group, Feldspar group, Pyroxene - hypersthene and augite, Amphibole – hornblende, Mica – muscovite and biotite, Calcite, Gypsum and Clay minerals.

UNIT III PETROLOGY

9

Classification of rocks, distinction between Igneous, Sedimentary and Metamorphic rocks. Engineering properties of rocks. Description, occurrence, engineering properties, distribution and uses of Granite, Dolerite, Basalt, Sandstone, Limestone, Laterite, Shale, Quartzite, Marble, Slate, Gneiss and Schist.

UNIT IV STRUCTURAL GEOLOGY AND GEOPHYSICAL METHODS

9

Geological maps – attitude of beds, study of structures – folds, faults and joints – relevance to civil engineering. Geophysical methods – Seismic and electrical methods for subsurface investigations.

UNIT V APPLICATION OF GEOLOGICAL INVESTIGATIONS

9

Remote sensing for civil engineering applications; Geological conditions necessary for design and construction of Dams, Reservoirs, Tunnels, and Road cuttings - Hydrogeological investigations and mining - Coastal protection structures. Investigation of Landslides, causes and mitigation.

TOTAL: 45 PERIODS

OUTCOMES:

The students completing this course

- ☑ Will be able to understand the importance of geological knowledge such as earth, earthquake, volcanism and the action of various geological agencies.
- ☑ Will get basics knowledge on properties of minerals.
- ☑ Gain knowledge about types of rocks, their distribution and uses.
- ☑ Will understand the methods of study on geological structure.
- ☑ Will understand the application of geological investigation in projects such as dams, tunnels, bridges, roads, airport and harbor

TEXT BOOKS:

1. Varghese, P.C., Engineering Geology for Civil Engineering Prentice Hall of India Learning Private Limited, New Delhi, 2012.
2. Venkat Reddy. D. Engineering Geology, Vikas Publishing House Pvt. Lt, 2010.
3. Gokhale KVGK, "Principles of Engineering Geology", B.S. Publications, Hyderabad 2011.
4. Chenna Kesavulu N. "Textbook of Engineering Geology", Macmillan India Ltd., 2009.
5. Parbin Singh. A "Text book of Engineering and General Geology", Katson publishing house, Ludhiana 2009.

REFERENCES:

1. Blyth F.G.H. and de Freitas M.H., Geology for Engineers, Edward Arnold, London, 2010.
2. Bell .F.G.. "Fundamentals of Engineering Geology", B.S. Publications. Hyderabad 2011.
3. Dobrin, M.B "An introduction to geophysical prospecting", McGraw Hill, New Delhi, 1988.

U. Rajappa
N. Poornima

N. Sathy
N. Balakrishnan

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LESSON PLAN

Department: Civil Date: 02.07.2018
 Faculty Name: Semester: III
 Subject Code & Title: CE8392 & ENGINEERING GEOLOGY
 Class: II Year

S No.	Proposed		Details of Topic Covered	TA	Ref	Actual		IMP
	Date	Period				Date	Period	
UNIT I PHYSICAL GEOLOGY (0 hrs / 0 periods)								
1	02.07.2018	4	Geology in civil engineering - branches of geology	2	2	02.7.18	4	
2	04.07.2018	2	Structure of earth and its composition weathering of rocks	2	2	04.7.18	2	
3	04.07.2018	4	Scale of weathering	2	2	04.7.18	4	
4	05.07.2018	6	Soil	2	2	05.7.18	4	
5	07.07.2018	2	Landforms and processes associated with river, wind, groundwater and sea	2	2	07.7.18	3	
6	09.07.2018	4	Relevance to civil engineering	2	2	09.7.18	5	
7	11.07.2018	2	Plate tectonics	2	2	10.7.18	2	
8	11.07.2018	4	Earth quakes	2	2	13.7.18	2	
9	12.07.2018	6	Seismic zones in India.	2	2	14.7.18	2	
UNIT II MINERALOGY (09 hrs / 09 periods)								
10	16.07.2018	4	Physical properties of minerals	2	2	14.7.18	6	
11	18.07.2018	2	Quartz group	2	2	18.7.18	4	
12	18.07.2018	4	Feldspar group	2	1	18.7.18	6	
13	19.07.2018	6	Pyroxene - hypersthene	2	1	19.7.18	6	
14	01.08.2018	2	Augite,	2	2	26.7.18	6	
15	01.08.2018	4	Amphibole - hornblende	2	2	31.7.18	5	
16	02.08.2018	6	Mica - muscovite	2	2	2.8.18	5	
17	06.08.2018	4	biotite, Calcite	2	2	2.8.18	6	
18	08.08.2018	2	Gypsum and Clay minerals	2	2	6.8.18	4	
UNIT III PETROLOGY (09hrs / 09 periods)								
19	08.08.2018	4	Classification of rocks	2	1	6.8.18	5	
20	09.08.2018	6	Igneous, Sedimentary rocks	2	1	7.8.18	5	
21	16.08.2018	6	Metamorphic rocks	2	1	9.8.18	6	
22	20.08.2018	4	Engineering properties of rocks	2	3	13.8.18	4	
23	22.08.2018	2	Description, occurrence, engineering properties	2	2	16.8.18	6	
24	22.08.2018	4	Distribution and uses of Granite, Dolerite	2	3	23.8.18	4	
25	03.09.2018	4	Basalt, Sandstone, Limestone, Laterite	2	2	23.8.18	5	
26	05.09.2018	2	Shale, Quartzite, Marble,	2	2	24.8.18	3	
27	05.09.2018	4	Slate, Gneiss and Schist	2	3	24.8.18	4	

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PRINCIPAL

LESSON PLAN

Department: Civil Date: 02.07.2018
 Faculty Name: _____ Semester: II
 Subject Code & Title: CE3101 & ENGINEERING GEOLOGY
 Class: II Year

S No	Proposed		Details of Topic Covered	TA	Ref	Actual		HD
	Date	Period				Date	Period	
UNIT-IV STRUCTURAL GEOLOGY AND GEOPHYSICAL METHODS (09 hrs / 09 periods)								
28	06.09.2018	6	Geological maps	2	1	27.8.18	4	
29	08.09.2018	2	Attitude of beds, study of structures	2	2	27.9.18	5	
30	10.09.2018	4	Folds	2	1	10.9.18	1	
31	12.09.2018	2	Faults	2	2	17.9.18	4	
32	12.09.2018	4	Joints	2	2	20.9.18	6	
33	17.09.2018	4	relevance to civil engineering	2	2	24.9.18	3	
34	19.09.2018	2	Geophysical methods	2	2	24.9.18	4	
35	19.09.2018	4	Seismic methods for subsurface investigations	2	2	24.9.18	7	
36	20.09.2018	6	Electrical methods for subsurface investigations	2	2	1.10.18	3	
UNIT-V APPLICATION OF GEOLOGICAL INVESTIGATIONS (09 hrs / 09 periods)								
37	22.09.2018	2	Remote sensing for civil engineering applications	2	2	1.10.18	4	
38	24.09.2018	4	Geological conditions necessary for design and construction	2	2	3.10.18	1	
39	26.09.2018	2	Geological conditions necessary for design and construction	2	2	3.10.18	2	
40	26.09.2018	4	Tunnels, and Road cuttings	2	2	3.10.18	3	
41	27.09.2018	6	Hydrogeological Investigations and mining	2	2	3.10.18	4	
42	01.10.2018	4	Hydrogeological Investigations and mining	2	2	4.10.18	3	
43	11.10.2018	6	Coastal protection structures.	2	2	4.10.18	5	
44	15.10.2018	4	Coastal protection structures	2	2	4.10.18	6	
45	17.10.2018	2	Investigation of Landslides, causes and mitigation	2	2	5.10.18	3	

Reference books (Ref):

- 1 Varghese, P.C., Engineering Geology for Civil Engineering Prentice Hall of India Learning Private Limited, New Delhi, 2012
- 2 Venkat Reddy D Engineering Geology, Vikas Publishing House Pvt Lt, 2010
- 3 Gokhale KVGK, "Principles of Engineering Geology", B.S. Publications, Hyderabad 2011
- 4 Chenna Kesavulu N "Textbook of Engineering Geology", Macmillan India Ltd., 2009
- 5 Parbin Singh A "Text book of Engineering and General Geology", Katson publishing house, Ludhiana 2009

Teaching Aids (TA)

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

Prepared by	Verified by	Authorized by
Sign: <u>M. Pojitha</u>	Sign: <u>N. Sathya Kumar</u>	Sign: <u>Dr. M. Vijayakumar</u>
Name: <u>M. Pojitha</u>	Name: <u>N. Sathya Kumar</u>	Name: <u>Dr. M. Vijayakumar</u>
Faculty	HD	Principal

Head, Dept. Of Civil

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 Vijayamangalam - 638 056, Tirupur (Dt).



TEST PLAN FOR SUBJECT

Subject : Engineering Geology

Faculty: M. Poojitha

Semester : II

Year: II

Department : Civil Engineering

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.	Internal Test - 1	28.07.18	28.07.18	NIL
2.	Internal Test - 2	07.09.2018	07.09.18	NIL
3.	Model Exam	10.10.18	10.10.18	NIL

	Prepared By	Approved By
Sign:	<i>M. Poojitha</i>	<i>N. Sathesh Kumar</i>
Name:	M. Poojitha	N. Sathesh Kumar
	Faculty	HD



RESULT ANALYSIS OF TEST

Subject : CE8392 & Engineering geology Date : 30.31.07.2018
Class : II Year Department : CIVIL
Semester : III Sem
Exam details & date : Internal test - 1 & 28.07.2018.
Faculty : N. Poojitha
Number of students : 12
No. of students attended : 12
No. of students absent : 0
No. of students passed : 6
No. of students failed : 6
Percentage of failures : 50%.

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	2	8	1	0

	Prepared By	Approved By
Sign:	<u>N. Poojitha</u>	<u>N. Satheshkumar</u>
Name:	<u>N. Poojitha</u>	<u>N. Satheshkumar</u>
	Faculty	HD



RESULT ANALYSIS OF TEST

Subject : CE8392 & Engineering geology Date : 20.31.07.2018
Class : II Year Department : CIVIL
Semester : III Sem
Exam details & date : Internal test - 1 & 28.07.2018.
Faculty : N. Poojitha
Number of students : 12
No. of students attended : 12
No. of students absent : 0
No. of students passed : 6
No. of students failed : 6
Percentage of failures : 50%

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	1	2	8	1	0

	Prepared By	Approved By
Sign:	<u>N. Poojitha</u>	<u>N. Sathooshkumar</u>
Name:	<u>N. Poojitha</u>	<u>N. Sathooshkumar</u>
	Faculty	HD



RESULT ANALYSIS OF TEST

Subject : CE8392^v Engineering geology Date :
Class : I Year Department : CIVIL
Semester : III Sem

Exam details & date

: Internal Test - 2

Faculty

: N. Poojitha

Number of students

: 12

No. of students attended

: 12

No. of students absent

: 0

No. of students passed

: 11

No. of students failed

: 1

Percentage of failures

: 8

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	0	0	4	7	1

	Prepared By	Approved By
Sign:	<u>N. Poojitha</u>	<u>N. Sathishkumar</u>
Name:	<u>N. Poojitha</u>	<u>N. Sathishkumar</u>
	Faculty	HD

Head, Dept. of Civil



RESULT ANALYSIS OF TEST

Subject : CE8392 Engineering Geology Date :
 Class : II Year Department : CIVIL
 Semester : III Sem
 Exam details & date : Model test
 Faculty : N. Poojitha
 Number of students : 12
 No. of students attended : 12
 No. of students absent : 0
 No. of students passed : 7
 No. of students failed : 5
 Percentage of failures : 41

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	<u>1</u>	<u>2</u>	<u>4</u>	<u>5</u>	<u>0</u>

	Prepared By	Approved By
Sign:	<u>N. Poojitha</u>	<u>N. Sathya</u>
Name:	<u>N. Poojitha</u>	<u>N. Sathya Kumar</u>
	Faculty	HD



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Vijayamangalam, Tirupur

(Accredited by NAAC)

CORRECTIVE ACTION REPORT

DEPT: CIVIL

YEAR: II Year

SUBJECT: CE2392V Engineering Geology

SEMESTER: III

S.No	Internal Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
1	Internal Test -1	50%	Lack of Writing.	Revised I.O. Write the same Question	08.09.18	NIL
2	Internal Test -2	92	Missing Contents	Assignments given.	10.9.18	NIL
3	Model Exam	59	Lack of writing	Gave ideas about how to cover the syllabus.	19.10.18	NIL

Prepared by	Verified by
N. POOJITHA.	N. Satheskumar
Subject Faculty name	HOD

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Vijayamangalam, Tiruppur

QUALITY OBJECTIVE MONITORING RECORD

Department : Civil Engineering

Year : II

Semester : III

Subject : Engineering Geology

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 make them understand the Geological knowledge	80	50	80	92	80	59

	Prepared By	Approved By
Sign:	<i>M. Poojitha</i>	<i>N. Sathesh Kumar</i>
Name:	M. Poojitha Faculty	N. Sathesh Kumar HD


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Register Number:



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INTERNAL TEST 2			Date/Session	07.09.2018	Marks	100
Course code	CE8392	Course Title	Engineering Geology			
Regulation	2017	Duration	3 Hours	Academic Year	2018-2019	
Year	II	Semester	III	Department	CIVIL	
COURSE OUTCOMES						
C302.1	The importance of geological knowledge such as earth, earthquake, volcanism and the action of various geological agencies.					
C302.2	.Realize the importance of this knowledge in projects such as dams, tunnels, bridges, roads, airport and harbor.					
C302.3	Capability to recognize and assess geological hazards such as landslides, earthquakes, and ground subsidence, and their implications for engineering projects.					
C302.4	Proficiency in geological mapping techniques to interpret geological features and structures in the					
02.5	Integration of geological knowledge into soil mechanics and rock mechanics principles for analyzing the stability and behavior of earth materials under different conditions.					

Q.No.	Question	CO	BTS
PART A (Answer all the Questions 10 x 2 = 20 Marks)			
1	Define mineralogy.	C302.2	RE
2	How minerals are identified and what are the symmetry elements of crystal?	C302.2	RE
3	What are the physical properties of minerals?	C302.2	RE
4	Define streak.	C302.2	RE
5	What is mean by fracture and types of fracture?	C302.2	RE
6	Define igneous Rocks.	C302.3	RE
7	Define Sedimentary Rocks.	C302.3	RE
8	Explain metamorphic changes.	C302.3	EV
9	Define slate.	C302.3	RE
10	Define Schist.	C302.3	RE
PART B (Answer all the Questions 5 x 13 = 65 Marks)			
11a	Explain briefly about physical properties of minerals	C302.2	EV
OR			
11b	Write short notes on i)symmetry ii)crystallographic axis	C302.2	RE
12a	Give a detailed acocut of i) sometric system ii)Hexagonal system	C302.2	UN
OR			
12b	Write an essay on the quartz group.	C302.2	RE
13 a	List the types of pyroxene.	C302.2	RE
OR			
13b	Describe the types of feldspar group.	C302.2	RE
14a	Explain in detail about the igneous rocks.	C302.2	EV



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14b	List the types of dolerite and Explain them.	C302.3	RE
15a	Describe about sandstone.	C302.3	RE
OR			
15b	Explain about Marble.	C302.3	EV
PART C			
(Answer all the Questions 1 x 15 = 15 Marks)			
16a	List the physical properties of quartz group.	C302.3	RE
OR			
16b	Explain in detail about sedimentary rocks.	C302.3	FV

M. Poosidha
Course Faculty 7/11/18

(Name / Sign / Date)

M. Poosidha

R. Prabhakaran
HoD


(Name / Sign / Date)

R. Prabhakaran

[Signature]
Principal

(Name / Sign / Date)

[Signature]
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DEPARTMENT OF CIVIL ENGINEERING

Assignment Question Paper

Assignment - 01			Date of Issue:	28.07.2018	Marks	10
Course code	CE8392	Course Title	Engineering Geology			
Year	II	Semester/Section	III	Date of Submission:	16.08.2018	

Q.No	Questions	CO
1	Explain the structural of earth surface its composition	C302.1
	Explain quartz group	C302.1

M. Poojitha
28/7/18

Name and Signature of the Faculty Incharge

M. Poojitha

R. Prabhakaran
HoD/Civil 28/7/18

R. Prabhakaran

M
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DEPARTMENT OF CIVIL ENGINEERING

Assignment Answer Sheet

Name of the Student : Naveena.S

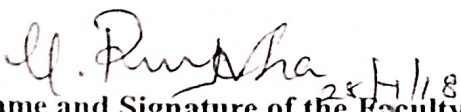
AU Register Number: 732417103005

Assignment - 01			Date of Issue:	28.07.2018	Marks	10
Course code	CE8392	Course Title	Engineering Geology			
Year	II	Semester/Section	III	Date of Submission:	16.08.2018	

Q.No	Questions	CO
1	Explain the structural of earth surface its composition	C302.1
2	Explain quartz group	C302.1

Mark Allocation


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


Name and Signature of the Faculty Incharge

M. Poojitha


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