DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

LIST OF ADDITIONAL INFORMATION

- **Academic Calendar**
- **Course File**
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    - **Syllabus**
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ACADEMIC CALENDAR 2019-2020 – ODD SEMESTER

DHIRAJLAL GANDHI COLLEGE OF ENGINEERING

ODD SEMESTER 19-20 TENTATIVE ACADEMIC PLANNER 2019-20 FOR I,II,III & IV YEAR wef. 20.06.2019

JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
1	SAT		1	MON		1	THU		1	SUN	Holiday	1	TUE	ICT - II (II,III & IV year)	1	FRI	ICT - I (I year)	1	SUN	Holiday
2	SUN	Holiday	2	TUE	AIDITI - Awareness Programme	2	FRI		2	MON	Vinayakar Chathurthi	2	WED	Gandhi Jayanthi	2	SAT		2	MON	
3	MON		3	WED		3	SAT		3	TUE		3	THU		3	SUN	Holiday	3	TUE	
4	TUE		4	THU		4	SUN	Holiday	4	WED		4	FRI		4	MON	ICT - I (I year)	4	WED	University Theory starts (I year)
5	WED	Ramzan	5	FRI		5	MON	Opening Classes for I year	5	THU		5	SAT		5	TUE		5	THU	
6	THU		6	SAT		6	TUE		6	FRI		6	SUN	Holiday	6	WED	University Theory starts (II,III & IV year)	6	FRI	
7	FRI		7	SUN	Holiday	7	WED		7	SAT		7	MON	Pooja Holidays	7	THU		7	SAT	
8	SAT		8	MON		8	THU	Local Festival	8	SUN	Holiday	8	TUE	Pooja Holidays	8	FRI		8	SUN	Holiday
9	SUN	Holiday	9	TUE		9	FRI		9	MON		9	WED	Model Theory (II,III & IV year)	9	SAT		9	MON	
10	MON		10	WED		10	SAT	9th Induction Program	10	TUE	Moharram	10	THU	CT- II (I year)	10	SUN	Milaudi Nabi	10	TUE	
11	TUE		11	THU		11	SUN	Holiday	11	WED		11	FRI		11	MON	ICT - II (I year)	11	WED	
12	WED		12	FRI		12	MON	Bakrid	12	THU	CT- I (I year)	12	SAT		12	TUE		12	THU	
13	THU		13	SAT		13	TUE		13	FRI		13	SUN	Holiday	13	WED		13	FRI	
14	FRI		14	SUN	Holiday	14	WED		14	SAT		14	MON	Model Theory (II,III & IV year)	14	THU		14	SAT	
15	SAT		15	MON		15	THU	Independence Day	15	SUN	Holiday	15	TUE		15	FRI		15	SUN	Holiday
16	SUN	Holiday	16	TUE		16	FRI		16	MON	ICT - I (II,III & IV year)	16	WED		16	SAT		16	MON	
17	MON		17	WED		17	SAT		17	TUE		17	THU	Model Practical (II,III & IV year)	17	SUN	Holiday	17	TUE	
18	TUE		18	THU		18	SUN	Holiday	18	WED		18	FRI		18	MON	Model Theory (I year)	18	WED	
19	WED		19	FRI		19	MON		19	THU		19	SAT		19	TUE		19	THU	
20	THU	Reopening Classes for II,III & IV yr	20	SAT		20	TUE	CT- II (II,III & IV year)	20	FRI		20	SUN	Holiday	20	WED		20	FRI	
21	FRI		21	SUN	Holiday	21	WED		21	SAT		21	MON		21	THU		21	SAT	
22	SAT		22	MON	CT- I (II,III & IV year)	22	THU		22	SUN	Holiday	22	TUE	University Practical (II,III & IV year)	22	FRI		22	SUN	Holiday
23	SUN	Holiday	23	TUE		23	FRI	Krishna Jayanthi	23	MON		23	WED		23	SAT		23	MON	
24	MON		24	WED		24	SAT		24	TUE		24	THU		24	SUN	Holiday	24	TUE	
25	TUE		25	THU		25	SUN	Holiday	25	WED	ICT- II (II,III & IV year)	25	FRI		25	MON	University Practical (I year)	25	WED	Christmas
26	WED		26	FRI		26	MON		26	THU		26	SAT		26	TUE		26	THU	
27	THU		27	SAT		27	TUE		27	FRI		27	SUN	Deepavali	27	WED		27	FRI	
28	FRI		28	SUN	Holiday	28	WED		28	SAT		28	MON		28	THU		28	SAT	
29	SAT		29	MON		29	THU		29	SUN	Holiday	29	TUE		29	FRI		29	SUN	Holiday
30	SUN	Holiday	30	TUE		30	FRI		30	MON	ICT - II (II,III & IV year)	30	WED		30	SAT		30	MON	
			31	WED		31	SAT					31	THU	ICT - I (I year)				31	TUE	

ACADEMIC CALENDAR 2019-2020 – EVEN SEMESTER

DHIRAJLAL GANDHI COLLEGE OF ENGINEERING

EVEN SEMESTER 19-20 TENTATIVE ACADEMIC PLANNER 2019-20 FOR I,II,III & IV YEAR wef. 02.01.2020

DECEMBER			JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
1	SUN	Holiday	1	WED	New Year	1	SAT	CT- I (I year)	1	SUN	Holiday	1	WED	University Practical (II,III & IV year)	1	FRI	May Day	1	MON	
2	MON		2	THU	Reopening Classes for II,III & IV years	2	SUN	Holiday	2	MON		2	THU		2	SAT		2	TUE	
3	TUE		3	FRI		3	MON		3	TUE		3	FRI	Model Theory (II,III & IV year)	3	SUN	Holiday	3	WED	
4	WED		4	SAT		4	TUE		4	WED		4	SAT		4	MON		4	THU	
5	THU		5	SUN	Holiday	5	WED		5	THU		5	SUN	Holiday	5	TUE		5	FRI	
6	FRI		6	MON	Reopening Classes for I year	6	THU		6	FRI		6	MON	Mahaveer Jayanthi	6	WED	University Theory Starts (I year)	6	SAT	
7	SAT		7	TUE		7	FRI		7	SAT		7	TUE	Model Theory (II,III & IV year)	7	THU		7	SUN	Holiday
8	SUN	Holiday	8	WED		8	SAT		8	SUN	Holiday	8	WED		8	FRI		8	MON	
9	MON		9	THU		9	SUN	Holiday	9	MON	ICT- I (II,III & IV year)	9	THU		9	SAT		9	TUE	
10	TUE		10	FRI		10	MON		10	TUE		10	FRI	Good Friday	10	SUN	Holiday	10	WED	
11	WED		11	SAT	Nakshatra'2020	11	TUE		11	WED		11	SAT	Placement Day	11	MON		11	THU	
12	THU		12	SUN	Holiday	12	WED		12	THU		12	SUN	Holiday	12	TUE		12	FRI	
13	FRI		13	MON	Pongal Holidays	13	THU		13	FRI		13	MON		13	WED		13	SAT	
14	SAT		14	TUE		14	FRI		14	SAT		14	TUE	Tamil New Year	14	THU		14	SUN	Holiday
15	SUN	Holiday	15	WED		15	SAT		15	SUN	Holiday	15	WED		15	FRI		15	MON	
16	MON		16	THU		16	SUN	Holiday	16	MON	ICT-I (I Year) ICT- II (II,III & IV year)	16	THU		16	SAT	Graduation Day	16	TUE	
17	TUE	VAP Classes	17	FRI		17	MON		17	TUE		17	FRI	University Theory Starts (II,III & IV year)	17	SUN	Holiday	17	WED	
18	WED		18	SAT		18	TUE		18	WED		18	SAT	Last Working Day (I year)	18	MON		18	THU	
19	THU		19	SUN	Holiday	19	WED		19	THU		19	SUN	Holiday	19	TUE		19	FRI	
20	FRI		20	MON		20	THU		20	FRI		20	MON	University Practial Exam (I Year)	20	WED		20	SAT	
21	SAT		21	TUE		21	FRI		21	SAT		21	TUE		21	THU		21	SUN	Holiday
22	SUN	Rural Local Body Election Holidays	22	WED		22	SAT	National Level Technical Symposium	22	SUN	Holiday	22	WED		22	FRI		22	MON	
23	MON		23	THU		23	SUN	Holiday	23	MON	Model Practical (II,III & IV year)	23	THU		23	SAT		23	TUE	
24	TUE		24	FRI		24	MON	CT- II (I,II,III & IV year)	24	TUE		24	FRI	Model Theory (I year)	24	SUN	Holiday	24	WED	
25	WED		25	SAT		25	TUE		25	WED		25	SAT		25	MON	Ramzan	25	THU	
26	THU		26	SUN	Republic Day	26	WED		26	THU	Ugadhi	26	SUN	Holiday	26	TUE		26	FRI	
27	FRI		27	MON	CT- I (II,III & IV year)	27	THU		27	FRI	Last Working Day (II,III & IV year)	27	MON	Model Theory (I year)	27	WED		27	SAT	
28	SAT		28	TUE		28	FRI		28	SAT	Achievers Day/ Cultural Day	28	TUE		28	THU		28	SUN	Holiday
29	SUN		29	WED		29	SAT	National Level Technical Symposium - Polytechnic	29	SUN	Holiday	29	WED		29	FRI		29	MON	
30	MON		30	THU	CT- I (I year)				30	MON	ICT-II (I year)	30	THU		30	SAT		30	TUE	
31	TUE		31	FRI					31	TUE	University Practical (II,III & IV year)				31	SUN	Holiday			

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY,

SALEM

Department of Civil Engineering

CE8392 Engineering Geology

II Year/ III Sem

The Course file has been submitted on 15.11.2019

Prepared by :

Mrs.M.Archana
Asst.Prof/CIVIL

Verified By : 15/11/19

Mr.G.Shanbarasan
HOD/CIVIL

CE8392 **ENGINEERING GEOLOGY** **L T P C**
3 0 0 3

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.

CLASS – TIME TABLE

Year/Semester/sec:IV/VIII/A

Dhirajlal Gandhi College of Technology , Salem 636 309
Department of Civil Engineering
Time Table - 2019-2020 (Even Semester)
Class advisor:**Mr.S.Karthick/Mrs.R.Suganya**

Rev . No : 0
W.E.F : 16.12.2019

Day	I	II	INTERVAL	III	IV	LUNCH	V	VI	INTERVAL	VII	VIII
Date	9.00 - 9.50	9.50 - 10.40	10.40-10.55	10.55 - 11.45	11.45 - 12.35	12.35 - 01.25	01.25 - 02.15	02.15 - 03.00	03.00 - 03.15	03.15 - 04.00	04.00 - 04.45
MON	POM	PFS		RRS			TECHNICAL CLASS			PFS	POM
TUE	PFS			RRS	POM		PROJECT			POM	RRS
WED	RRS	POM		PFS	POM		PROJECT			RRS	PFS
THU	PROJECT/INTERNSHIP										
FRI	PROJECT/INTERNSHIP										
SAT	PROJECT/INTERNSHIP										

	Subject Code	Subject - Theory	Name of the faculty	Designation	Hrs/Week
POM	MG6851	Principles of management	Mr.P.Prabhu	AP/CIVIL	6
PFS	CE6016	Prefabircated strucutres	Mr.S.Karthick	AP/CIVIL	6
RRS	CE6021	Repair and Rehabilitation of structures	Mrs.M.Archana	AP/CIVIL	6

	Subject Code	Subject - Practical	Name of the Faculty	Designation	Hrs/Week
PROJECT	CE6811	Project work	Mrs. S.Narmadha/Mrs.S.Priyanga	AP/CIVIL	4

Time table incharge

HOD/Civil

Principal

FACULTY – TIME TABLE

Dhirajlal Gandhi College of Technology
Dept. of Civil Engineering
Individual Staff Time Table - 2019 - 2020 [Even Semester]

Name	Dept	Designation
Mr.R.Suganya	CIVIL	AP

DAY /HOUR	I	II	BREAK	III	IV	LUNCH	V	VI	BREAK	VII	VIII
MON	ACA	HE		ADM			RES			AHE	RES
TUE	ADM			AHE	AHE		HYD LAB			HE	HYD LAB
WED	ACA	AHE		ACA			ADM	HE		PROJECT	
THU	AHE	ACA		ADM			ADM	HYD LAB		HYD LAB	
FRI	ADM			HE	HE		PROJECT			RES	
SAT	HE	ACA		AHE	ACA		AHE	RES		PROJECT	

Theory /Lab	Code	Subject Name	Hrs
T1	CE8403	APPLIED HYDRAULIC ENGINEERING	7
T2	CE8604	HIGHWAY ENGINEERING	6
L1	CE8461	HYDRAULIC ENGINEERING LABORATORY	6
L2	CE8811	PROJECT WORK (IV B)	6
	RES	RESEARCH	6
	ACA	ACADEMIC	7
	ADM	ADMISSION	10
		No. of Hours	48

Sl.No	Other Responsibilities
1	Class Advisor (IV - A)
2	NAAC & NBA
3	TimeTable incharge
4	Hydraulics Lab Incharge

TimeTable Coordinator

HOD

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM-636309

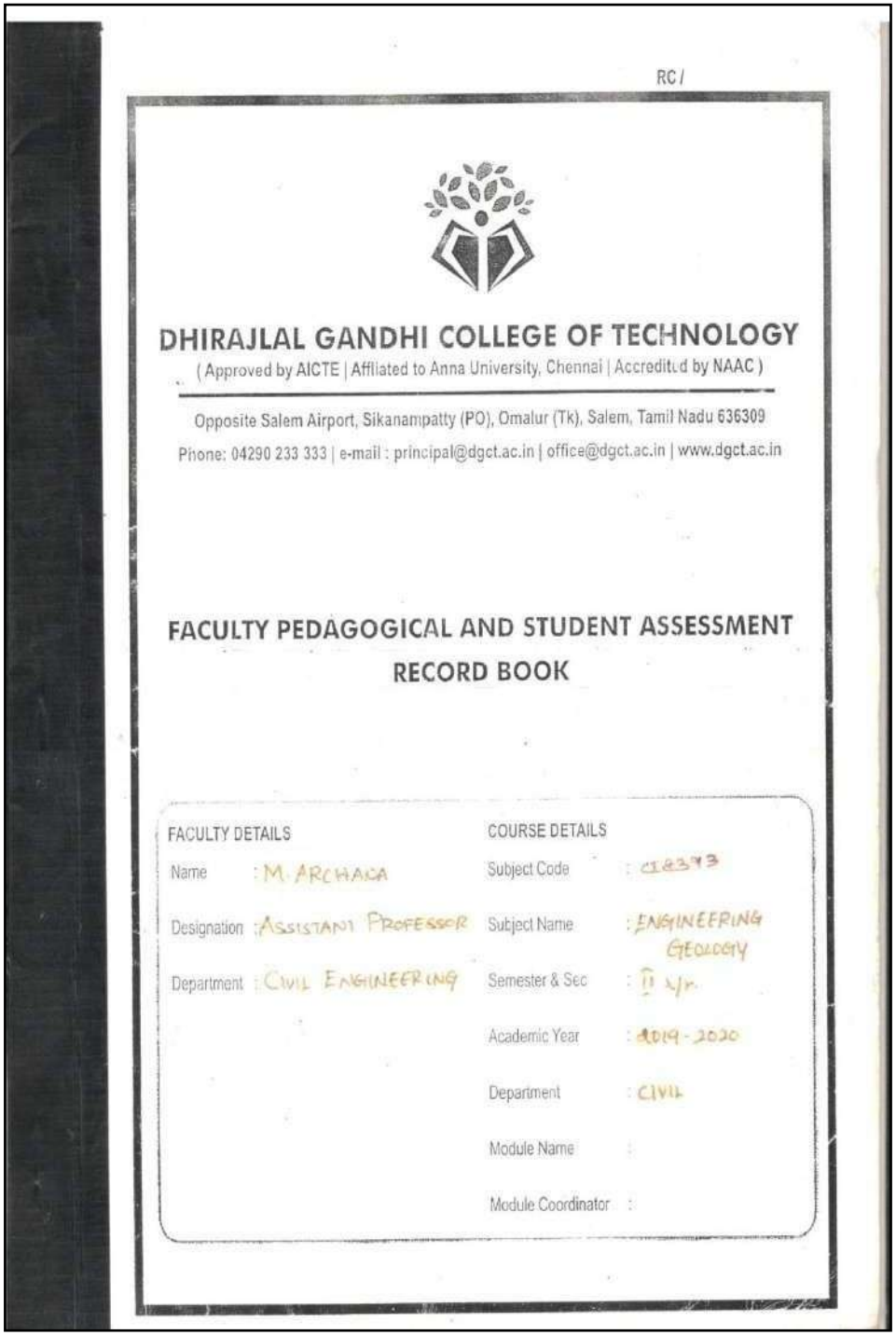
DEPARTMENT OF CIVIL ENGINEERING

CE8392- ENGINEERING GEOLOGY

CLAS :II YR NAME LIST

S.No.	Register No.	Name of the Student
1	610518103001	ABISHEK M
2	610518103002	ABISHEK RAJ A
3	610518103003	ANBANANDAN S
4	610518103005	AVINASH KRISHNA N
5	610518103006	DEVADHARSHINI R
6	610518103007	DEVI SREE A
7	610518103008	DHANUSH S
8	610518103009	GIRUTHICGHA M
9	610518103010	GOVINDARAJ M
10	610518103011	GOWSHIKAA B
11	610518103012	HARI HARAN V
12	610518103013	HARSHINI A
13	610518103014	JAYASRI K
14	610518103016	KARANSANTH M
15	610518103017	KAVIYASRI K
16	610518103018	KEERTHINI S
17	610518103020	NISHA A P
18	610518103021	PARVESHJOHN E
19	610518103022	PRADEEP P
20	610518103023	PURUSHOTHAMAN T
21	610518103024	RAGHUL S
22	610518103025	RAJAVEL R
23	610518103026	SANJAY R
24	610518103028	SATHISH KUMAR S
25	610518103029	SHALINI PRIYA M T
26	610518103031	SRIKANTH M N
27	610518103032	SRISURYAPRAKASH S
28	610518103033	SUGANTHY M
29	610518103034	SUMITHRA G
30	610518103035	TAMILARASAN K
31	610518103036	TAMILARASU A
32	610518103301	ABUTHAHIR AKASH.S
33	610518103302	AKASH.S
34	610518103303	DEVI.S
35	610518103304	PREMKUMAR
36	610518103305	PREMNATH
37	610518103306	VASANTHAKUMAR

FACULTY PEDAGOGICAL AND STUDENT ASSESSMENT RECORD BOOK



RC /

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

(Approved by AICTE | Affliated to Anna University, Chennai | Accredited by NAAC)

Opposite Salem Airport, Sikanampatty (PO), Omalur (Tk), Salem, Tamil Nadu 636309

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FACULTY PEDAGOGICAL AND STUDENT ASSESSMENT RECORD BOOK

FACULTY DETAILS		COURSE DETAILS	
Name	: M. ARCHAICA	Subject Code	: CE8393
Designation	: ASSISTANT PROFESSOR	Subject Name	: ENGINEERING GEOLOGY
Department	: CIVIL ENGINEERING	Semester & Sec	: II A/M
		Academic Year	: 2019 - 2020
		Department	: CIVIL
		Module Name	:
		Module Coordinator	:

TIME TABLE

Revision : 0 with effect from (Date) : 21/6/19

Day	1	2	Tea Break	3	4	Lunch Break	5	6	Tea Break	7	8	Remarks
TIMINGS											E	
Monday											EG	
Tuesday												
Wednesday		[redacted]		EG				EG				
Thursday												
Friday				EG							EG	
Saturday								EG				

Revision : 1 with effect from (Date) : 15/7/19

Day	1	2	Tea Break	3	4	Lunch Break	5	6	Tea Break	7	8	Remarks
TIMINGS												
Monday												
Tuesday							EG					
Wednesday								EG				
Thursday	EG	EG										
Friday												
Saturday					EG					EG		

Revision : 2 with effect from (Date) : 16/8/19

Day	1	2	Tea Break	3	4	Lunch Break	5	6	Tea Break	7	8	Remarks
TIMINGS												
Monday												
Tuesday							EG					
Wednesday								EG				
Thursday	EG	EG										
Friday												
Saturday					EG					EG		

VISION

To improve the quality of human life through multidisciplinary programs in engineering, architecture and management that are internationally recognized and would facilitate research work to incorporate social, economical and environmental development.

MISSION

- To create a vibrant atmosphere that creates competent engineers, innovators, scientists, entrepreneurs, academicians and thinkers of tomorrow.
- To establish centre of excellence that provide sustainable solutions, to industry and society.
- To enhance capability through various value added programs, to meet the challenges of dynamically changing global needs.

STUDENTS DETAILS			
	BOYS	GIRLS	TOTAL
NO. OF DAYSCHOLARS	25	11	36
NO. OF HOSTELLERS	00	01	01
TOTAL	25	12	37

Syllabus

PTAG7201 ENGINEERING GEOLOGY L T P C 3 0 0 3

OBJECTIVES:

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 as well as to choose types of foundations.

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 - Hydrogeologic investigations and mining - Coastal protection structures. Investigation of Landslides, causes and mitigation.

TOTAL: 45 PERIODS

Books / Website / Materials referred

1. Varghese - P.C - EG.
2. NPTEL - Youtube
3. Geology site - Youtube.

Programs attended to improve the Competency level

Date	Program Name	College
9/8/19	Resistance of building to disaster.	NPMC, Erode.

Previous year performance of the subject

Academic Year	Semester	Faculty Name (s)	Result	Remarks
18 -19	III			
17-18	II			
16-17	III.			

Content Beyond Syllabus

S. No	Gap	Action Taken	Date - Month - Year	Resource Person with designation	No of Students Present	Relavent to POs, PSOs
2.						

List of Learning Resources Developed

S.No	Unit No	Topic	Type of Resource	Reference No

DEPARTMENT

VISION

- To provide excellent education to meet the growing demands of industry, research and consultancy in all disciplines of Civil Engineering by developing a conducive teaching-learning environment and to improve the quality and social standards of human life.

MISSION

- To produce competent Civil Engineers who can tackle the tasks of Civil Engineering which include multiple responsibilities of analysis, design, construction of traditional and modern structures, water resources, transport, urban planning & remote sensing, green and eco friendly concepts in construction industry.
- To establish center of excellence to enhance research with latest soft techniques tools.
- To impart education to meet the demands of changing global needs with value added programs.

ROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- To prepare students for successful careers in Civil Engineering field that meets the needs of Indian and multinational companies.
- To develop the confidence and ability among students to synthesize data and technical concepts and thereby apply it in real world problems.
- To develop students to use modern techniques, skill and mathematical engineering tools for solving problems in Civil Engineering.
- To provide students with a sound foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyse engineering problems and to prepare them for graduate studies.
- To promote students to work collaboratively on multi-disciplinary projects and make them engage in life-long learning process throughout their professional life.

Program Outcomes (POs)

PROGRAMME OUTCOMES (POs):

On successful completion of the programme,

- Graduates will demonstrate knowledge of mathematics, science and engineering.
- Graduates will demonstrate an ability to identify, formulate and solve engineering problems.
- Graduate will demonstrate an ability to design and conduct experiments, analyze and interpret data.
- Graduates will demonstrate an ability to design a system, component or process as per needs and specifications.
- Graduates will demonstrate an ability to visualize and work on laboratory and multidisciplinary tasks.
- Graduate will demonstrate skills to use modern engineering tools, software and equipment to analyze problems.
- Graduates will demonstrate knowledge of professional and ethical responsibilities.
- Graduate will be able to communicate effectively in both verbal and written form.
- Graduate will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues.
- Graduate will develop confidence for self education and ability for life-long learning.

Program Specific Outcomes (PSOs)

PROGRAMM SPECIFIC OUTCOME (PSOs)

- To comprehend the basics of load and moment transfer in steel and con structures and to apply acquired knowledge in the analysis of structures
- To understand and get trained in various modern equipments exist in the fi civil engineering field

MAPPING OF COURSE OUTCOMES TO POs & PSOs

S. No.	Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
1.	importance of geological knowledge		✓	✓		✓		✓			✓				
2.	Knowledge of properties of minerals.	✓	✓	✓			✓	✓			✓				
3.	types of rocks.		✓	✓			✓	✓							
4.	Study on geological structure	✓		✓		✓		✓			✓				
5.	dams. tunnels, roads.		✓	✓	✓	✓					✓				

MAPPING OF COURSE TO POs & PSOs

S. No.	Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
	Engineering Geology.		✓	✓		✓		✓			✓				

Course Assessment Plan

1	CT - 1 24/7/19	...	36%
2	CT - 2	...	32%
3	ICT - 1 21/9/19	...	75%
4	ICT - 2	...	43%
5	Model Exam	...	1
6	Assignment	...	3.
7	Tutorial	...	-
8	Project Based Learning (Mini - Project)	...	-
9	Industrial Visit	...	-
10	Guest Lecturer	...	-
11	Seminar	...	3
12	Activity Based Learning - I	...	
13	Activity Based Learning - I	...	
14	Other Activities	...	

Assignment / Tutorial

S.No	Units	Topics	Tentative Date	Exact Date
1.	II	Weathering of rocks	29.07.2019	05.08.2019
2.	IV & I	Process associated with winds	02.09.2019	31.08.2019
3.	III	Sedimentary rocks - Formation by wind	27.09.2019	30.09.2019

Industrial Visit / Guest Lecture

Unit - I

Course Plan & Delivery Details

S.No.	Topic	Time required (Period)	* Teaching Methods	* Teaching Aids	Date and Period of delivery
1	Geology in Civil Eng. branches of geology	1	L	BB	21/6/19(2,8)
2	Structure of earth & composition	1	GD	BB	21/6/19(8)
3	Weathering of rocks & its scale	2	L	PP	24/6/19(1) 26/6/19 6)
4	Soil, landforms	2	L	BB	26/6/19(8 28/6/19 3)
5	Process associated with river, wind	2	L	BB	29/6/19(6) 1/7/19 7)
6	ground water, Sea relevance to CE	2	L	BB	2/7/19(8) 3/7/19(3)
7	Plate tectonics, EQ	1	L&GD	VF	3/7/19(6)
8	Seismic zones in India	1	L&GD	VF	5/7/19(3)
9					
10					
11					
12					
13					
14					
15					

* Refer to page No.5 for the list of teaching methods and teaching aids

No. of Hours Planned : 9
No. of Hours Taken : 12

Planned date of completion of Unit : 2/7/19
Actual date of completion of Unit : 5/7/19

Beginning of the Semester
Verified by

HOD

After Completion of Unit
Verified by

HOD

Unit - II

Course Plan & Delivery Details

S.No.	Topic	Time required (Period)	* Teaching Methods	* Teaching Aids	Date and Period of delivery
1	Physical properties of Minerals	1	L	PP	22/8/19 (5)
2	Quartz, feldspar group	1	L	PP, BB	22/8/19 (6)
3	Pyroxene.	1	L	PP	22/8/19 (6)
4	hypersthene & augite.	1	L	PP	28/8/19 (6)
5	Amphibole - hornblende	1/2	L	PP	28/8/19 (8)
6	Mica - Muscovite, biotite	1/2	L	PP, BB	29/8/19 (2)
7	Calcite	1/2	L	BB	29/8/19. (3)
8	Gypsum & clay min.	1/2	S	PP.	
9					
10					
11					
12					
13					
14					
15					

* Refer to page No.5 for the list of teaching methods and teaching aids

No. of Hours Planned : 9
No. of Hours Taken : 6

Planned date of completion of Unit : 4/9/19
Actual date of completion of Unit : 29/8/19

Beginning of the Semester
Verified by

HOD

After Completion of Unit
Verified by

HOD

Unit - III

Course Plan & Delivery Details

S.No.	Topic	Time required (Period)	* Teaching Methods	* Teaching Aids	Date and Period of delivery
1	Classfication of rocks	1	L & GD	PP, BB	25/7/19
2	distincition between Igneous	1	L	PP, BB	1/8/19
3	Sedimentary rocks		L	PP, BB	
4	Meta morphic rocks	1	L	PP, BB	1/8/19
5	Engineering properties of rocks	1	L	PP, BB	5/8/19
6	Description, occurance of Granite.	2	L & GD	PP, BB	5/8/19 6/8/19
7	engineering properties distribution & uses of Granite	2	L	PP, BB	8/8/19
8	Dolerite, Basalt, Sandstone, Lime stone	2	L	PP, BB	8/8/19 14/8/19
9	Laterite, Shale, Quartz, marble	1	L	PP, BB	17/8/19
10	Slate, Gneiss and Schist.	1	L & GD	PPT	17/8/19
11					
12					
13					
14					
15					

* Refer to page No.5 for the list of teaching methods and teaching aids

No. of Hours Planned 9
No. of Hours Taken 12

Planned date of completion of Unit 8/8/19
Actual date of completion of Unit 17/8/19

Beginning of the Semester Verified by

HOD

After Completion of Unit Verified by

HOD

Unit - IV

Course Plan & Delivery Details

S.No.	Topic	Time required (Period)	* Teaching Methods	* Teaching Aids	Date and Period of delivery
1	Geological maps	1	L	BB	5/7/19(8)
2	Attitude of beds Study of structures	1	L	BB	8/7/19 (8)
3	Folds, Faults, and Joints	down			
4	Relevance to CIVIL Engineering				
5	Geo Physical methods	1	L	BB	16/7/19(5)
6	Seismic and electrical methods for subsurface investigations.	2	L	BB	17/7/19(6) 18/7/19(1,2)
7					
8	Explain:				
9	fold	3.	L	PPT & VF	9/7/19(8) 10/7/19(3,6)
10	fault	2	L	VF	12/7/19(3,8)
11	Joint	1	L	VF	15/7/19(5)
12					
13					
14					
15					

* Refer to page No.5 for the list of teaching methods and teaching aids.

No. of Hours Planned : 9
No. of Hours Taken : 11

Planned date of completion of Unit 16/7/19
Actual date of completion of Unit 18/7/19

Beginning of the Semester Verified by

HOD

After Completion of Unit Verified by

HOD

Unit - V

Course Plan & Delivery Details

S.No.	Topic	Time required (Period)	* Teaching Methods	* Teaching Aids	Date and Period of delivery
1	Remote sensing for civil Engineering applications.	1	GD	PP	3/9/19 (5)
2	Geological conditions necessary for design of dams			PP	3/9/19
3	Reservoirs, Tunnels	1	1	PP	4/9/19 (4)
4	Road cuttings.	1	1	PP	9/9/19
5	Mining.			PP	(5)
6	Coastal protection	1	9	PP	9/9/19
7	Landslides.				(6)
8					
9					
10					
11					
12					
13					
14					
15					

* Refer to page No.5 for the list of teaching methods and teaching aids.

No. of Hours Planned : 6

Planned date of completion of Unit : 9/9/19

No. of Hours Taken : 4

Actual date of completion of Unit : 9/9/19.

Beginning of the Semester
Verified by

HOD

After Completion of Unit
Verified by

HOD

Record of Attendance

DATE:

Period:

R.No.	AU Regd. No.	Name	M/F	H/D	No. of Arrears
1	611518104001	Abishek M			
2	1149E2	Abishek Raj A			
3	3	Anbanandan S			
~~4~~	~~4~~	~~Aravindhan R~~			
5	145 E5	Avinash krishnan N			
6	78.5 E6	Devadharshini R			
7	124 E7	Devi sree A			
8	95 E8	Danush S			
9	183 E9	Giruthika			
10	168 T10	Gowindaraj M			
11	145 E11	Gowshikaa B			
12	162.5 T12	Hariharan V			
13	109 E13	Harshini A			
14	130.7 T14	Jayasri K			
~~15~~	~~15~~	~~Jeeva~~			
16	123 E16	Karansanth M			
17	138 E17	Kaviyasri K			
18	134 E18	Keerthini S			
~~19~~	~~19~~	~~Manikandan E~~			
20	81 E20	Nisha A P			
21	101 E21	Parveshjohn E			
22	113 E22	Pradeep P			
23	E23	Purushothaman T			
24	121.5 T24	Rogul S			
25	120 E25	Rajavel R			
No. of Students Present					
No. of Students Absent					
Faculty Initial					

20

Internal Assessment

	Test Marks				Assignment / ~~Tutorial~~								PBL	IV Sem	ABL I	ABL II	Attendance	Internal Mark	Univ Mark
	100	100	100																
	CT 1	CT 2	ICT 1	ICT 2	M	1	2	3	4	5	6	7	8						
001	13	15	44	AB	6	10	10	10											
002	7	20	62	AB	8	10	10	10											
003	6	15	AB	AB	0	10	7	6											
005	7	17	53	23	11	10	10	8											
006	13	48	59	35	25	10	10	10											
007	15	42	75	44	54	10	10	10											
008	7	17	87	36	52	10	9	7											
009	13	58	82	51	57	10	10	9											
010	17	18	81	70	53	10	10	10											
011	13	43	52	32	32	10	10	9											
012	15	60	79	52	61	10	10	10											
013	12	50	38	74	50	10	9	10											
014	12	63	84	63	57	10	10	10											
016	10	35	AB	AB	15	7	6	7											
017	20	90	92	75	65	10	10	10											
018	18	65	83	57	55	10	10	10											
020	12	31	AB	AB	0	10	9	8											
021	7	10	35	AB	0	7	8	6											
022	12	17	AB	14	8	7	8	9											
023	7	7	60	0	0	10	10	9											
024	12	33	65	46	12	7	8	10											
025	10	20	57	21	8	7	10	9											
026	0	23	53	19	20	7	10	9											
CHT																			
028	57	62	86	62	53	10	8	7											
029	08	67	83	AB	64	10	10	10											

Record of Attendance

R.No.	AU Regd. No	Name
24	26	Sanjay. R
~~27~~	~~27~~	~~Santhosh. G~~
28	140 ET 28	Sathish kumar. S
29	135. E29	Shalini Priya. M.T
30	(TC) 30	Sivashankar. D
31	96 E31	Srikanth. M.N
32	103. E32	Srisuryaprakash. S
33	194. E33	Suganthy. M
34	134. E34	Sunitha. G
35	87 E35	Tamilarasan. K
36	111. E36	Tamilarasu. A
~~37~~	~~37~~	~~Thamaraiselvan. C~~
37		Devi. S
38	368 E	Premkumar. R 15
39	340 E	Premnath. S 16
40	205. ET	Abuthahir. S 17
41		Aakash 22
42	170. E	Vasanthakumar. A

No. of Students Present

No. of Students Absent

Faculty Initial

Internal Assessment

Test Marks				Assignment / Tutorial		
5	50	53		7	7	8
5	72	28		10	7	7
	83	48	60	10	10	10
	74	63	42	10	10	10
	46	8	0	7	7	9
	59	50	10	7	7	7
5	31	37	15	10	10	10
	29	28	5	10	10	10
	45	17	35	7	7	8
	49	30	35	7	7	7
	50	35	5	7	8	8
	60	50	50	7	10	9
	4	9	0			
	37	37	37			
		12	15			
		16	22			
		43	34			

Remedial Action

Test	Date & Time	Description	Remarks
CT 1	24/7/19 2.45-4.45	UNIT-1	Not fair.
CT 2	21/8/19.	UNIT-4	Not fair.
ICT 1	21/9/19 1.45-4.45	UNIT-4 & UNIT-II.	Good.
ICT 2	1/10/19.	UNIT-1 & UNIT-5	Not fair.
Model	21/10/19.	All unit.	Not fair.

Course Outcome Analysis

S.No.	Course Outcomes	Target (%)	Attainment(%)
CT1	Should know the importance of Phisical Geology.	90%.	39%
CT2	Structure of Geology.	80%.	32.4%
ICT1	Minerals & structures of rocks.	75%.	75%.
ICT2	2 & 6 units.	75%.	57.14%.

Justification for not attaining the target (%) for Cos

Cos	Justification
CT1	Can't form the sentences
CT2	Can't manage time.
ICT1	have concentrated on Avg. Students
ICT.2.	didn't have practices

Course File (Theory)

1.	Class Notes (Five Units)	Yes / No
2.	Content beyond the syllabus materials	Yes / No
3.	Assignment / Tutorial Question paper alongwith Answer Key	Yes / No
4.	Cycle Test / Model Question Paper alongwith Answer Key	Yes / No
5.	Remedial Class - Approval letter, Question Paper etc.	Yes / No
6.	Guest Lecturer / Industrial Visit - Approval letter and other Proofs	Yes / No
7.	Activity Based Learning - Supporting documents	Yes / No
8.	Project Based Learning (Mini Project) - Supporting documents	Yes / No
9.	University Question Papers (Last 5 Years)	Yes / No
10.	Question Bank (Objective Types, 2 Marks, 16 Marks)	Yes / No
11.	Placement related questions	Yes / No
12.	Sample scripts - Assignment, Tutorial, Test Paper, Sepcial Test etc.	Yes / No
13.	Material - Videos, worksheets etc.	Yes / No
14.	Real world examples	Yes / No
15.	Course End Survey Analysis	Yes / No
16.	Course Outcome Analysis	Yes / No

Course Coordinator Module Coordinator Program Coordinator / HOD

Course File (Lab)

1	Master Lab Manual	Yes / No
2.	Videos / Material	Yes / No
3	Mini - Project List	Yes / No
4	Model Test Question Paper	Yes / No
5	Sample Assessment Scripts	Yes / No
6	Course End Survey Analysis	Yes / No
7	Course Outcome Analysis	Yes / No

RESULT ANALYSIS

	CT1	CT2	ICT1	ICT2	Model
Syllabus Covered	2 units	1 unit	2 units	2 units	5 units
Date of Exam	24/7/19	21/8/19	21/9/19	08/10/19	22/10/19
Total No. of Students	38	37	37	37	37
No. of Students Attended	33	37	33	28	37
No. of Students Absent	5	0	4	9	0
No. of Students Passed	12	12	25	12	15
% of Pass	36%	32.4%	75%	42.8%	40.5%
No. of Students Failled	21	25	8	16	22
% of Faill	63.6%	67.5%	24%	57.14%	59.4%
No. of Grade A Students (75 & Above)	2	3	12	1	0
% of Grade A Students	6%	8%	36%	03%	0%
No. of Grade B Students (50 - 74)	9	9	13	11	15
% of Grade B Students	27%	27%	39%	39.2%	40.5%
No. of Grade C Students (<50)	21	25	8	16	22
% of Grade C Students	63%	67.5%	24%	57.14%	59.4%

Course Coordinator Sign					
Module Coordinator Sign					
Program Coordinator / HOD Sign					

Course Coordinator Module Coordinator Program Coordinator / HOD Principal

COUNSELING PARTICULARS

S.No	Date	Name of the Student	Counseling Particulars	Student Signature	Staff Signature
1	24.7.19	Sanjay R	low mark.	R. Sanjay	
2	24.7.19	Tamilarasu A	Absence of Class	Tamilarasu	
3	24.7.19	Tamilarasan k	mark		
4	24.7.19	Anbanandan s	mark.		

COURSE ASSESSMENT SUMMARY

Activity Completed	Phase-I	Phase-II	Phase-III	Phase-IV	Phase-V
Date of Attendance entered in web portal	1-7-19 to 25-7-19	26/7/19 to 22/8/19	23/8/19 to 20/9/19	21/9/19 to 29/10/19	
Date of Internal assessment marks entered in web portal	25/7/19	22/8/19	20/9/19	19/10/19	
No. of Assignments given	1	1	1	-	
No. of Tutorial Given	-	-	-	-	
Project Based Learning (Mini - Project)	-	-	-	-	
Industrial Visit	-	-	-	-	
Guest Lecture	-	-	-	-	
Seminar	1	1	2	-	
Activity Based Learning - I (if any)	-	-	-	-	
Activity Based Learning - II (if any)	-	-	-	-	
Other Activities Specify :	-	-	-	-	
Course Coordinator Sign					
Module Coordinator Sign					
Program Coordinator / HOD Sign					

Course Coordinator Module Coordinator Program Coordinator / HOD Principal

MINUTES OF CLASS COMMITTEE MEETING

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM-636 309.
MINUTES OF CLASS COMMITTEE MEETING HELD ON 17.07.2019
CIVIL III YR – A Sec

Staff members present: Mr.G.Silambarasan (HOD/CIVIL),S.Narmadha (AP/CIVIL)

Class members present: Indhumathi.V, Logavarrsini.V, Naveena.K.R, Karan.K, Kanishka.M, Rizwanul Ahamed.A.M, Syed Abbas

S.NO	Points discussed	Units Completed	Faculty sign
1	**Design of Reinforced concrete elements:** Combined class is to be avoided.	1.5	
2	**Structural Analysis I:** No issues.	1.5	
3	**Environmental and Agriculture:** No issues.	1.5	
4	**Advance surveying:** No issues..	1.5	
5	**Foundation Engineering:** Need of voice louder.	1.5	
6	**Water Supply Engineering:** No issues.	1.5	
7	**Others** 1. No water supply and damaged pipe fitting in Boys restroom. 2. Lock problem and leakage of water in girls restroom. 3. Drinking water supply is irregular.		

HOD/CIVIL

PRINCIPAL