



SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS

SUBMITTED BY



INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





Criterion 1	Curricular Aspects	100
Critication	Carriediai rispects	100

- 1.1 Curricular Planning and Implementation (20)
- 1.1.1The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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Department Subject Code & Name: Class & Batch Semester

Civil

CE 8703 Structural design & Deaving.

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	Prepared By	
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ame: S	MADHAVAN	Smadly
4	Faculty	S. MAPHAVAN
	and the second second	HOD

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



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

SASURIE COLLEGE OF ENGINEERING, VIJAYAMANGALAM-638 056. DEPARTMENT OF CIVIL ENGINEERING CLASS TIME TABLE

HOD I/C

Year/Class: IV

TIME TABLE I/C

	eriods			2	e el	3	4	c F	5	0	2.45pm		
1	TIME/ DAYS	9.25am 10 9.30am	09.30a m to10.15	10.15a m fo11.00 am	11.00am to 11.15am	11.15a m lo12.00 pm	12.40p	12.40am to 1.20pm	1.20pm to 2.00pm	2.00pm to 2.45pm	to 3.00pm	3.00pn to 3.45pn	3.45pm to 4.20pm
i	DAY 1		SDD	PLACEMENT		ECV	RADHE		TEM	RADHE	BRE	ECV	LIB/NET
1	DAY 2		TOM	MOT	1	SDD	SDD		TEM		DESIG	N PROJECT	1
H	DAY 3	PRAYER	TEM	SDD	BREAK	ECV	SDD	BREAK	RADHE		DESIG	N PROJECT	
H	DAY 4	- 35 - 35	ECV	PLACEMENT	- 5	том	TOM	m	SDD	RADHE	SEM	INAR	LIB/NET
H	DAY 5	-	ECV	ECV	1	RADHE	TEM		том	том	RA	DHE	TEM
E	S.No Sub Code Name of the Subject CFR70 Estimation Costing and valuation Engineering							MR S.A	of the Staff MADHAVAN MADHAVAN		No	of hours	
_	2	CE8702	Railway	vays, Airport docks & Harbour Engineering				MR S.f	MAVAHDAM			5	
-	3	CE8703	Traffic Fr	tructural Design & Drawing affic Engineering & Management					MR.S.	MADHAVAN A RAMESH	-		6
-	5	CE8007 OML751	Testing	Testing of Materials							-		6
-	6	CE8711 Creative & innovative Project							MR S.	MADHAVAN			2
-	7	Net/Library							MRS.	MADHAVAN ADMASANKAR			2
-	8	8 Placement							MADHAVAN			1	
	9		Seminar					-	14117.3				
_								-		TOTAL			40
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		arr			SM	ADHAVAN							
	DAM:2	MAVAN				IOD I/C					Pii	ncipal	
		HOD I/C											

SEM: VII Sem

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

Year:2022-2023



Academic year-2018-2019

Department of civil engineering

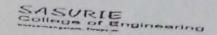
HYEAR

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

Sign	T. Herry	Modifican
Name	T. Nivetha	N. Southeast Krumal
	Class Advisor	HD/IC

Vijayamangalam - 638 056, Tirupur (Dt).





SUBJECT INFORMATION RECORD

Department

Civil

Subject

CE8703 Structural design & Drawing

Year

Semester

Last year handled by

Percentage of Result (last year)

Quality Objectives

Reference Book: Structural design & drawing GIV Krishna

Publications

	Prepared By	Approved By
Sign:	Smadly	Smally
Name:	S. MADHAVAN	S. MADHAVAN
	Faculty	НОП

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

CE8703 STRUCTURAL DESIGN AND DRAWING LTPC 3024

OBJECTIVE:

This course aims at providing students with a solid background on the principles of structural engineering design. Students will be acquire the knowledge of liquid retaining structures, bridges components, retaining wall and industrial structures

UNIT I RETAINING WALLS 9+6

Reinforced concrete Cantilever and Counter fort Retaining Walls-Horizontal Backfill with Surcharge-Design of Shear Key-Design and Drawing.

UNIT II FLAT SLAB and BRIDGES 9+6

Design of Flat Slabs with and without drops by Direct Design Method of IS code- Design and Drawing - IRC Specifications and Loading - RC Solid Slab Bridge - Steel Foot-over Bridge-Design and Drawing.

UNIT III LIQUID STORAGE STRUCTURES 9+6

RCC Water Tanks - On ground, Elevated Circular, underground Rectangular Tanks-Hemispherical Bottomed Steel Water Tank —Design and Drawing

UNIT IV INDUSTRIAL STRUCTURES 9+6

Structural steel Framing - Steel Roof Trusses - Roofing Elements - Beam columns - Codal provisions - Design and Drawing.

UNIT V GIRDERS AND CONNECTIONS 9+6

Plate Girders – Behaviour of Components-Design of Welded Plate Girder-Design of Industrial Gantry Girders – Design of Eccentric Shear and Moment Resisting connections. **TOTAL: 75 PERIODS**

Design and Drawing Exercises for practical component

Part A - RCC Structures

1. Rectangular Column and Footing

2. Combined footing with Two columns

3. RCC one way &Two way Slab and beam system

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

- 4. Cantilever Retaining wall
- 5. RCC T beam bridge deck
- 6. Underground Rectangular Water Tank
- 7. Elevated circular water Tank

Part B. Steel Structures

- 1. Built up column, column base and Foundation
- 2. Simple Steel Roof Trusses
- 3. Industrial building Elements
- 4. Plate Girder (welded)
- 5. Framed Connections and Detailing
- 6. Gantry girder
- 7. Steel water Tank

STRUCTURAL DESIGN

Theory Examination

Practicals

AND DRAWING
Question pape
Pattern
This paper is
a theory cum
practical
course
weightage for
theory 80%
and for
practical 20%
1

Five Either/Or
type
questions 5
x20 = 100
marks:
covering all
the five units
Total
Duration of
Examination
will be 3
hours
Each
Question
include
Design - 12
Marks
Free hand
Drawing (Not
to scale) - 8

marks

Marks to aw	rarded	Questio Pattern		Marks to awarded
re Either/Or re estions 5 0 = 100 arks: vering all e five units stal uration of camination Il be 3 ours ach uestion clude esign - 12 arks eee hand	Marks carry weigh End Seme Exam will be	etical onent will 80% tage. ester ination	2 Questions one from Pa A - RCC Structures & one from Part B- Ster Structures	Marks will carry 20% weightage.

Practical component Marks will carry 20% weightage. Practical Examination will be conducted by respective institution as internal mode.

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

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



TEST PLAN FOR SUBJECT

Subject

CE 8703 Structural design 4 drawing Faculty S. Modho!

VII

Year: IV ya.

Semester

Department:

civil

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1	Internal test-I	22.8.22	24.9.22	-
2	Internal test-II	14. 9m	16.9.21	
3	Model Exam	20.11.22	22 11-22	
		The state of the s		

	Prepared By	Approved By
Sign:	Smuchy	Smidy
Name:	S. MADHAVON	S. MAPHAVEN
THE BUILD	Faculty	HOD Me

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



RESULT ANALYSIS OF TEST

CE 8703 Structural design & Drawing

Date 24.09.2022

: Civil

Class

Exam details & date

Subject

Semester

Department

Internal Test- I & 24.09.20:

Faculty S. Madhavan

Number of students : 02

No. of students attended : 09,

TV ya

VII

No. of students absent : Nil

No of students passed : : 02

No. of sudents failed : -

Percentage of failures :

RESULT DATA:

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

	Prepared By	Approved By
Sign:	Smeidy	Smady
Name:	S. Madhavan	S. Madhavan
	Faculty	HOD

Dr.M.VIJAYAR UNAR ME. Ph.D.,

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



RESULT ANALYSIS OF TEST

Subject CE 8703 Class Semester TV 98	Structu	Department		
Exam details & date Faculty	ž.	15.10.2022	g Internal	ASSESSMEN —TI
Number of students	;	S. Madhava	n	
No. of students attended	:	02		
No of students absent	:	02		
No of students passed	:	_		
No of students feiled		02		
Percentage of failures		<u> </u>		

RESULT DATA:

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

- 1	Prepared By	Approved By
Sign:	Strady	Smadly
Name:	S. Madhavan	S. Madhavan
	Faculty	HOD MAN

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



RESULT ANALYSIS OF TEST

Subject CE 8 703 Stru	dual design Date 24.9.2022
Subject CE8703 Stru Class IVy civil	of dearing Department : Civil
Semester : VI)	
Exam details & date	Internal test - I
Faculty	: Internal test - I : S. Modhavan
Number of students	: 2
No. of students attended	: 2
No. of students absent	:
No. of students passed	: 2
No. of studence failed	
Percentage of failures	

RESULT DATA:

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

1 × 1	Prepared By	Approved By
Sign:	S. mudy	S. made
Name:	S. MADHAYAN	Me 1 Manualan

Vija) amangalam - 803 006, Tirupur (Dij.



CORRECTIVE\CTION PLAN REPORT

Dept

Year : IV

Subject

Civil Engineering. CE 8703 Structural design &

Semester: VII

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S.No	Internal Test	Precentage of Marks	Root Cause (Metrics)	Corrective Action	Deadline Date	Remarks
1	Internal tot	100%		-		
2	Internal test	100%	. —			_
3	Model Exam	504.				_

	Prepared By	Approved By
Sign:	Smody	Smedy
Name:	S. MADHAVON	S. MADHAVOV.
	Faculty	HOD

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



Department :

Civil Engineering 2022 - 2023

Year

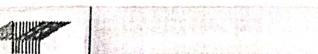
Semester

Subject

S.No	Quality	Internal Test-I		Internal Test-II		Model exam	
	Objective	Expectin g result	Obtained result	Expecting result	Obtaine d result	Expectin g Result	Obtained result
1	Internal dest-I	100%	100-/.	loaj.	60-1-	(DO-).	100-1,
2	Internal dest-II	100-/.	100-/.	100%	100%.	100.1.	(noa)
29	Model Exam	100-/.	100-1.	100-/-	(0.).	los).	(Dur).

	Prepared By	Approved By
Sign:	Smady	Smady
Name: S. MADHAVAN		S. MADHOW
	Faculty	HOD

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





Register Number:

SASURIE College of Engl

COUNTY OF THE PARTY NAMED IN	ett schale Bresstein schooling - Han hinz von 19	INTERNAL T	EST 2	Date/Session	01.12.2022	Marks	100
- while the most pulpings	se code	CE8703	Course Title	Structural de	signing and drav	ving	erde et mendioen kontraktiot
Regul	ation	2017	Duration	3 Hours	Academic Ye	ear 2022-202	3
Yenr	RSE OUTC	III	Semester	VII	Department	CIVIL	harmon and a sub-land
C703. C703. C703. C703.	1 Design forces, 2 Design reinfor 3 Analyz and con 4 Interpret	n retaining walls, to ensure structu rectangular wate cement detailing, te the behavior of mputer software t et and apply relev	considering factors sural stability and safety or tanks, considering fand foundation design water tanks under valools, ensuring stability ant building codes, stability	y. factors such as tank in, to ensure structu rious loading condi y and serviceability tandards, and guide	dimensions, wall tral integrity and vitions using struct y under design loadines governing the	I thickness, water-tightness, tural analysis mo ads, he design and	distribution of the second
C \ 3.5	5 Analyze conside	ince with safety a e and design squa ring factors such	es, flat slabs, mat foun and performance requ are, rectangular, circu as span-to-depth ratio	irements. lar, and triangular s	labs for various s	structural applic	ations, ding
C.No.	complia 5 Analyz	ince with safety a e and design squa ring factors such	and performance require, rectangular, circuas span-to-depth ratio	irements. lar, and triangular s os, boundary condit	labs for various s	structural applic	ations, ding BTS
	5 Analyze conside	ince with safety a e and design squa ring factors such	and performance require, rectangular, circulars span-to-depth rational Question PA	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	structural applic aditions, and loa	ding
	5 Analyze conside	ance with safety are and design squaring factors such ons.	and performance require, rectangular, circuas span-to-depth ratio	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	structural applic aditions, and loa	ding
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1 2 3 4	Define fla	ance with safety are and design squaring factors such ons. at slab guid storage structum head	and performance requare, rectangular, circuas span-to-depth ratio Question PA (Answer all the Question)	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	C703.2 C703.2 C703.2	BTS RE RE RE
No.	Define fla Define co Write sho	ance with safety are and design squaring factors such ons. Int slab puid storage structum head rt note on under verhead tank	and performance require, rectangular, circular as span-to-depth ratio Question PA (Answer all the Questions	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	C703.2 C703.2 C703.2 C703.2 C703.2	BTS RE RE RE RE RE
1 2 3 4 5 6	Define flate Define condition Define con	ance with safety are and design squaring factors such ons. It slab quid storage structum head rt note on under verhead tank derground water	and performance require, rectangular, circular as span-to-depth ratio Question PA (Answer all the Questions	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	C703.2 C703.2 C703.2 C703.2 C703.2 C703.2	RE RE RE RE RE
1 2 3 4 5 6	Define flate Define condition Define con	ance with safety are and design squaring factors such ons. Int slab puid storage structum head rt note on under verhead tank	and performance require, rectangular, circular as span-to-depth ratio Question PA (Answer all the Questions	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	C703.2 C703.2 C703.2 C703.2 C703.2 C703.2 C703.2	RE RE RE RE RE RE
1 2 3 4 5 6 7	Define fla Define condition Define lic Define condition Define c	ance with safety are and design squaring factors such ons. It slab quid storage structum head rt note on under verhead tank derground water	and performance require, rectangular, circular as span-to-depth ratio Question PA (Answer all the Questions) reinforced sections tank	irements. lar, and triangular s os, boundary condit n .RT A	labs for various s ions, support con	C703.2 C703.2 C703.2 C703.2 C703.2 C703.2 C703.3 C703.3	RE RE RE RE RE RE RE
1 2 3 4 5 6 7 8	Define fla Define ov Define un Define fle Write sho Define ov Define un Define fle What is m	ance with safety are and design squaring factors such ons. It slab puid storage structum head rt note on under verhead tank derground water xural stress eant by end anche	and performance require, rectangular, circular as span-to-depth ratio Question PA (Answer all the Questions) reinforced sections tank	irements. lar, and triangular sos, boundary condit NATA tions 10 x 2 = 20 Ma	labs for various s ions, support con	C703.2 C703.2 C703.2 C703.2 C703.2 C703.2 C703.2	RE RE RE RE RE RE

PART B

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		C	~	13						

thickness all around. Assume a live load of 4 kN/m ² and a a finish 1kN/m ² .use M20 & fe415 grade.	C703.2	EV
OR		
A Circular RCC column of size 300 mm diameter carrying an axial load of 300kN IT the bearing capacity of the soil is 200kN/m2. Design a suitable footing. Use M20 concrete and Fe413 and Sketch the details of reinforcements	C703.2	RE

Design & Cantilever retaining wall to retain 4m of horizontal backfill 12a The Density of the soil is 18kN/m3 Sale Bearing Capacity of the Soil-100kN/m2 Angle of internal Friction of Soil 40" The Coefficient of friction between base slab and concrete-0.65 Use M20 concrete and Fe415 Steel. Drew cross section and longitudinal section

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

C703.2

UN

OR

Design a slab over a room 12m x 6m as per LS. code. The slab is symptotical SURPOSOLEGE CERCONEERING,

Vijayamangalam - 638 056, Tirupur (Dt).

12h

	walls all Round with adequate restraint and the corners are held down. The live load on the slab is 450N/m ² The Slab has a bearing of 250 mm on the supporting walls. Assume the grade of materials		
13 a	Design a circular tank with flexible base for capacity of 500000 liters. The depth of water is to be 4m including a free board of 300mm. Overall height of the tank is restricted to 5m. Use M25 grade concrete and Fe-115 grade steel.	C703.2	RE
and the state of t	OR	the section in the party party of buildinger.	THE RESERVE
13b	Write down the design procedure as per IS code for dome, top ring beam and side walls	C703.2	RI.
14a	Design a column with single lacing system to carry a factored axial load of 1500kN. The Effective height of the column is 4.2m. Use two channels placed toe to toe.	C 703.3	EV
· ·		The second of the second of the second	AND THE PERSON NAMED IN POST OF
14b	Design an Interior panel of a flat slab system for an industry workshop layout of size 20m X 30m. Column and middle strips are kept equal. Loading class is 750 kg/m2 Use M25 and Fe 250 grade of materials.	C703.3	RE
15a	Design a steel roof truss to suit the following Span of truss 10 m Type of Truss Fan-Type Roof Cover Galvanized corrugated sheet Rolled steel angles Spacing of roof truss = 4.5 m Wind Pressure 1.0 kN/m² Draw the elevation of roof and detail the joints.	C703.3	RE
			No. considerate de la constantina della constant
15b	Design a purlin for a roof truss having the following data: Span of the truss = 6.0 m Spacing of truss 3m c/c Inclination of roof-30" Spacing of Purlin = 2m c/c	C703.3	EV
	PART C	And the second s	are the state of the same allow
Q _a	(Answer all the Questions 1 x 15 = 15 Marks)		
roa	Design a welded plate girder (with Thick web plate) of 20m span to support a UDL (live load) 70kN/m over the span with yield stress of steel as 250 N/mm². Use IS 800-2007 and Steel Codes.	C703.3	RE
	OR		The section of the se
16b	Design a welded plate girder for a multi storey departmental store for a span of 20m as per NBC and IS codal provisions. Assume necessary data required.	C703.3	EV
	Smaller D. D. S. P. S.		

Course Faculty 1/22
(Name/Sign/Date)

O. Madhavan

(Name /Sign / Date)

R. Prabhakaran

Principal

(Name /Sign / Date)

Dr.M.VIJAYAKUMAR ME PRINCIPAL SASURIE COLLEGE OF ENGINEER Vijayamangalam - 638 056, Tirupur



Internal Assessment Test Answer Book

Name	V. Prak	ash	-	Year/ Semester/Secti	ion 1V/VII
Register Number	732419103001	Date/Session	01.12.2022	Department	CIVIL
Course code	CE8703	Course Title	Structua	I design and	drawing
Internal Asses	sment Test	IAT 1	IAT 2		Model
Name and Sig	nature of the Invigi	lator with date			·

Instruct	ion to	the Student:	Put tick man	rk to tl	ne question at	tende	d in the columi	against question.
	Part	A		Part B/ Part C				
Q. No.	V	Marks	Q. NO.	✓	a	1	ь в	Total Marks
Q.		Will RS	Q. NO.		Marks		Marks	
1	~	2	11	~	12			12
2	~	2	12	V	11			11
3		2	13	/	10			10
4	V	2	14	V	7			7
5	V	2	15	/	7			7
6		2	16	-	/			
7		2	•3			G	rand Total	47
8		2	-		1			
9	V	2						
10	V	2_	6	7			June	204
Total		20		nd T	otal	0	Name and f the Exami	Signature ner with date

	To be f	illed by the	examiner			
1	2	3	4	5	6	Total
_	49	51		_		100
-	43	24	-	_	-	67
	1	To be f 1 2 - 49 - 43	To be filled by the 1 2 3 - 49 51 - 43 24	To be filled by the examiner 1 2 3 4 - 49 51 - - 43 24 -	To be filled by the examiner 1 2 3 4 5 - 49 51 - 43 24	To be filled by the examiner 1 2 3 4 5 6 - 49 51 - 43 24

IQAC Audit - Remarks

Marks Vorified

Anand Same and Signature

Dr.M. VIJAYAROMARIMEEPH.D.

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



DEPARTMENT OF CIVIL ENGINEERING

Assignment Question Paper

	Assignment – 01		Date of Issue:	05.10.2022	Marks	10
Course code	CE8703	Course Title	Structural Design	and drawing		
17			VI / /	Date of Submission:	15.10.2022	2

Q.No	Questions	CO
	Design and Sketch the details of reinforcements of a footing which carries a rectangular RCC column of size 200 mm x 400 mm with an axial load of 900kN. If the safe bearing capacity of the soil is 100kN/mm Use M25 concrete and Fe415.	C302.2
2	A Circular RCC column of size 300 mm diameter carrying an axial load of 300kN If the safe bearing capacity of the soil is 200kN/m. Design a suitable footing. Use M20 concrete and Fe415 grade steel, the details of reinforcements.	C302.2

Name and Signature of the Faculty Incharge

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

Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF CIVIL ENGINEERING

Assignment Answer Sheet

Name of the Student : V. Prakesh

AU Register Number: 732419103001

	Assignment - 0	ı	Date of Issue:	05.10.2022	Marks	10
Course code	CE8703	Course Title	Structural Desi	gn and drawing		
Year	111	Semester/Section	VI	Date of Submission	: 15.10.2	2022

Q.No	Questions	СО
1	Design and Sketch the details of reinforcements of a footing which carries a rectangular RCC column of size 200 mm x 400 mm with an axial load of 900kN. If the safe bearing capacity of the soil is 100kN/mm Use M25 concrete and Fe415.	C302.2
2	A Circular RCC column of size 300 nm diameter carrying an axial load of 300kN If the safe bearing capacity of the soil is 200kN/m. Design a suitable footing. Use M20 concrete and Fe415 grade steel, the details of reinforcements.	C302.2

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

of Molhavan

HoD/Civil

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

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