



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
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CIVIL ENGINEERING
CE 8604 HIGHWAY ENGINEERING

Department
Subject Code & Name
Class & Batch
Semester

III
VI
CONTENTS - COURSE FILE
PARTICULARS

SNO	PARTICULARS	REMARKS
1	Time Table	✓
2	Student name list	✓
3	Subject Information Record	✓
4	Syllabus	✓
5	Lesson Plan	✓
6	Test Plan for the Subject	✓
7	Result Analysis	✓
8	Corrective Action Report	✓
9	Quality objective monitoring record	✓
10	Internal test mark sheet(Consolidated)	✓
11	Internal test question paper	✓
12	Model question paper	✓
13	Sample Answer paper for all test(Min-5)	✓
14	Content beyond the syllabus	Soft copy
15	Tutorial Class - schedule and content	✓
16	Assignment - Schedule and paper	Soft copy
17	PPT - handout	Soft copy
18	Video - Animation - Soft copy	Soft copy
19	Question bank	Soft copy
20	Sample university question papers(min 5 QP-recent exam)	Soft copy
21	Personal Log book - Updated	Soft copy
22	Lecture Note	Soft copy
23	Special Class if any. Approval letter, Schedule, content covered.	Soft copy

Prepared By

Sign:

Name:

S. Keerthi Balan

S. Keerthi Balan

Faculty

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

Approved By

N.V. Vellingan

N.V. Vellingan

Head, Dept. Of Civil



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VIJAYAMANGALAM

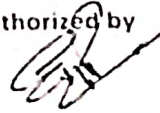
CLASS TIME TABLE

Department: Civil Engineering

Semester: VI

DAY/TIME	9:28 a.m TO 9:30 a.m	I 09:30 a.m TO 10:15 a.m	II 10:15 a.m TO 11:00 a.m	III 11:00 a.m TO 11:10 a.m	IV 11:10 a.m TO 11:55 a.m	V 11:55 a.m TO 12:40 p.m	VI 12:40 p.m TO 1:20 p.m	VII 1:20 p.m TO 2:00 p.m	VIII 2:00 p.m TO 2:40 p.m	IX 2:40 p.m TO 2:50 p.m	X 2:50 p.m TO 3:35 p.m	XI 3:35 p.m TO 4:20 p.m
DAY 1	PRAYER	HE								BRE AK		
DAY 2												
DAY 3			HE		BREAK		LUNCH				BRE BREAK	
DAY 4						HE						
DAY 5			HE								BRE AK	

S No	Subject Code	Name of the Subject	Name of the Staff	No of hours
4	CE5604	Highway Engineering	Mr. S. E. RATHI, B.A. B.A.M.	
			TOTAL	5

Prepared by	Verified by	Authorized by
Sign: 		
Name: Mr. N. VELLINGIRI	Mr. N. VELLINGIRI	Dr. E. NANDAKUMAR
Time Table I/C	HD	Principal

Head, Dept. Of Civil



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PRINCIPAL
SASURIE
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Vijayamangalam - 633 056, Tirupur (Dt).



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



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 633 056, Tirupur (Dt).



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VIJAYAMANGALAM

Department of Civil Engineering
STUDENT NAME LIST

Academic Year 2021-2022 - I/VI

S.NO	REGISTER NO	NAME
1	732119103001	A PRAKASH
2	732119103002	H VIPIN

	Prepared by	Verified by
Sign		
Name	S. Keerthi Balan	N. Velkingeri
	Faculty	HD

Head, Dept. Of Civil



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



SASURIE

SUBJECT INFORMATION RECORD

Department

CIVIL ENGINEERING

Subject

CE 2604 Highway Engineering

Year

III Year

Semester

VI

Last year handled by

—

Percentage of Result (last year)

—

Quality Objectives

To give an overview about the highway Engineering with respect to planning, design, construction & maintenance of highways as per IRC standards, Specifications & methods.

Reference Book

1. Khanna . S. K. Justo - CEG atel : Highway Engineering, Hemchand Publishers.
2. Subramanian K. P : Highways, Railways, Airport & Harbour Engineering, Scitech Publication (India) Chennai (2010)

Sign
Name

Prepared By
S. Veer
S. Keerthibalan

Approved By
MV
M. Vellingsan

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

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OBJECTIVE:

- To give an overview about the highway engineering with respect to, planning, design, construction and maintenance of highways as per IRC standards, specifications and methods.

UNIT I HIGHWAY PLANNING AND ALIGNMENT

9

Significance of highway planning - Modal limitations towards sustainability - History of road development in India - factors influencing highway alignment - Soil suitability analysis - Road ecology - Engineering surveys for alignment, objectives, conventional and modern methods - Classification of highways - Locations and functions - Typical cross sections of Urban and Rural roads

UNIT II GEOMETRIC DESIGN OF HIGHWAYS

9

Cross sectional elements - Sight distances - Horizontal curves, Super elevation, transition curves, widening at curves - Vertical curves - Gradients, Special consideration for hill roads - Hairpin bends - Lateral and vertical clearance at underpasses.

UNIT III DESIGN OF FLEXIBLE AND RIGID PAVEMENTS

9

Pavement components and their role - Design principles - Design practice for flexible and rigid Pavements (IRC methods only) - Embankments- Problems in Flexible pavement design.

UNIT IV HIGHWAY CONSTRUCTION MATERIALS AND PRACTICE

9

Highway construction materials, properties, testing methods - CBR Test for subgrade - tests on aggregate & bitumen - Test on Bituminous mixes-Construction practice including modern materials and methods, Bituminous and Concrete road construction, Polymer modified bitumen, Recycling, Different materials - Glass, Fiber, Plastic, Geo-Textiles, Geo-Membrane (problem not included) - Quality control measures - Highway drainage - Construction machineries.

UNIT V EVALUATION AND MAINTENANCE OF PAVEMENTS


9


Pavement distress in flexible and rigid pavements - Types of maintenance - Pavement Management Systems - Pavement evaluation, roughness, present serviceability index, skid resistance, structural evaluation, evaluation by deflection measurements - Strengthening of pavements - Highway Project formulation.


TOTAL: 45 PERIODS**OUTCOMES:**


Students will be able to

- Get knowledge on planning and aligning of highway.
- Geometric design of highways
- Design flexible and rigid pavements.
- Gain knowledge on Highway construction materials, properties, testing methods
- Understand the concept of pavement management system, evaluation of distress and maintenance of pavements.


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

1. Khanna S. K., Justo C.E.G and Veeraragavan A. "Highway Engineering", Nemchand Publishers, 2014
2. Subramanian K.P., "Highways, Railways, Airport and Harbour Engineering", Sotekh Publications (India), Chennai, 2010
3. Kadiyali L.R. "Principles and Practice of Highway Engineering", Khanna Technical Publications, 8th edition Delhi, 2013.

REFERENCES:

1. Indian Road Congress (IRC), Guidelines for the Design of Flexible Pavements, (Third Revision), IRC. 37-2012
2. Indian Road Congress (IRC), Guidelines for the Design of Plain Jointed Rigid Pavements for Highways, (Third Revision), IRC. 58-2012
3. Yang H. Huang, "Pavement Analysis and Design", Pearson Education Inc, Ninth Impression, South Asia, 2012
4. Ian D. Walsh, "ICE manual of highway design and management", ICE Publishers, 1st Edition, USA, 2011
5. Fred L. Mannering, Scott S. Washburn and Walter P.Kilareski, "Principles of Highway Engineering and Traffic Analysis", Wiley India Pvt. Ltd., New Delhi, 2011
6. Garber and Hoel, "Principles of Traffic and Highway Engineering", CENGAGE Learning, New Delhi, 2010
7. O'Flaherty C.A "Highways, Butterworth - Heinemann, Oxford, 2006
8. IRC-37-2012, The Indian roads Congress, Guidelines for the Design of Flexible Pavements, New Delhi
9. IRC 58-2012. The Indian Road Congress, Guideline for the Design of Rigid Pavements for Highways, New Delhi

NV

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Me

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

Faculty Name : S.Keerthi balan
 Department : CIVIL ENGINEERING
 Code / Subject : CE8601/ HIGHWAY ENGINEERING
 Academic Year : 2021-2022-EVEN SEMESTER

Designation: Assistant Professor
 Semester/ Year: VIII/IV

S.No.	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD
	Date	Period				Date	Period	
UNIT - I HIGHWAY PLANNING AND ALIGNMENT								
1	16.03.2022	4	Significance of highway planning	1.2	1	16/3/22	6	2
2	17.03.2022	1	Modal limitations towards sustainability	1.2	1	17/3/22	1, 5	
3	17.03.2022	8	History of road development in India	1.2	1	18/3/22	1	
4	18.03.2022	1	factors influencing highway alignment	1.2	1	21/3/22	4	
5	22.03.2022	2	Soil suitability analysis	1.2	1	22/3/22	2	
6	23.03.2022	4	Road ecology	1.2	1	22/3/22	5	
7	24.03.2022	1	Engineering surveys for alignment, objectives, conventional and modern methods	1.2	1	23/3/22	2	
8	24.03.2022	8	Classification of highways - Locations and functions	1.2	1	24/3/22	4	
9	25.03.2022	1	Typical cross sections of Urban and Rural roads	1.2	1	25/3/22	5	
UNIT-II GEOMETRIC DESIGN OF HIGHWAYS								
10	26.03.2022	2	Cross sectional elements	1.2	1	26/3/22	4	2
11	26.03.2022	4	Sight distances	1.2	1	28/3/22	1	
12	30.03.2022	1	Horizontal curves,	1.2	1	29/3/22	4	
13	31.03.2022	8	Super elevation,	1.2	1	30/3/22	4	
14	01.04.2022	2	transition curves, widening at curves	1.2	1	1/4/22	2	
15	04.04.2022	4	Vertical curves	1.2	1	4/4/22	2	
16	05.04.2022	2	Gradients, Special consideration for hill roads	1.2	1	5/4/22	4	
17	06.04.2022	1	Hairpin bends	1.2	1	6/4/22	1	
18	07.04.2022	2	Lateral and vertical clearance at underpasses.	1.2	1	7/4/22	2	
UNIT-III DESIGN OF FLEXIBLE AND RIGID PAVEMENTS								
19	08.04.2022	5	Pavement components and their role	1.2	1.2	8/4/22	4	2
20	09.04.2022	1	Design principles	1.2	1.2	9/4/22	1	
21	11.04.2022	2	Design principles	1.2	1.2	11/4/22	2	
22	12.04.2022	5	Design practice for flexible Pavements	1.2	1.2	12/4/22	2	
23	13.04.2022	4	Design practice for rigid Pavements	1.2	1.2	13/4/22	4	
24	25.04.2022	8	Design practice for rigid Pavements	1.2	1.2	25/4/22	6	
25	26.04.2022	4	Embankments	1.2	1.2	26/4/22	1	
26	27.04.2022	2	Problems in Flexible pavement design.	1.2	1.2	27/4/22	1	
27	28.04.2022	4	Problems in Flexible pavement design.	1.2	1.2	28/4/22	3	

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LESSON PLAN

Faculty Name : S.Keerthi balan
 Department : CIVIL ENGINEERING
 Code / Subject : CE8604 / HIGHWAY ENGINEERING
 Academic Year : 2021-2022-EVEN SEMESTER

Designation: Assistant Professor
 Semester/ Year: VIII/IV

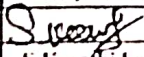
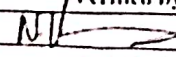
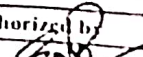
S.No.	Proposed		Details of Topic Covered	TA	Ref.	Actual		HD
	Date	Period				Date	Period	
UNIT-IV HIGHWAY CONSTRUCTION MATERIALS AND PRACTICE								
28	29.04.2022	2	Highway construction materials, properties, testing methods	1,2	1	2/5/22	2	2
29	30.04.2022	4	CBR Test for subgrade	1,2	1	4/5/22	1	
30	02.05.2022	5	tests on aggregate & bitumen	1,2	1	5/5/22	2	
31	04.05.2022	1	Test on Bituminous mixes-	1,2	1	6/5/22	1	
32	05.05.2022	2	Construction practice including modern materials and methods, Bituminous and Concrete road construction	1,2	1	9/5/22	2	
33	06.05.2022	4	Polymer modified bitumen, Recycling, Different materials	1,2	1	10/5/22	3	
34	16.05.2022	5	Glass, Fiber, Plastic, Geo-Textiles, Geo-Membrane (problem not included)	1,2	1	12/5/22	2	
35	17.05.2022	2	Quality control measures -	1,2	1	16/5/22	5	
36	18.05.2022	8	Highway drainage — Construction machineries.	1,2	1	23/5/22	2	
UNIT-V EVALUATION AND MAINTENANCE OF PAVEMENTS								
37	19.05.2022	1	Pavement distress in flexible and rigid pavements	1,2	1,2	28/5/22	4	2
38	20.05.2022	2	Types of maintenance	1,2	1,2	30/5/22	2	
39	23.05.2022	4	Pavement Management Systems	1,2	1,2	1/6/22	1	
40	24.05.2022	5	Pavement evaluation, roughness, by deflection measurements	1,2	1,2	3/6/22	4	
41	25.05.2022	2	present serviceability index, by deflection measurements	1,2	1,2	6/6/22	2	
42	26.05.2022	4	skid resistance, structural evaluation by deflection measurements.	1,2	1,2	7/6/22	2	
43	27.05.2022	5	evaluation by deflection measurements	1,2	1,2	7/6/22	3	
44	28.05.2022	2	Strengthening of pavements	1,2	1,2	8/6/22	1	
45	30.05.2022	8	Highway Project formulation.	1,2	1,2	8/6/22	5	

Reference books (Ref):

1. Khanna.S. K., Justo.C.E.G and Veeraragavan A. "Highway Engineering", Nemchand Publishers, 2014.
2. Subramanian K.P., "Highways, Railways, Airport and Harbour Engineering", Scitech Publications (India), Chennai, 2010

Teaching Aids (TA):

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

Prepared by	Verified by	Authorized by
Sign: 	Sign: 	Sign: 
Name: S.Keerthi balan	N.Vellingiri	DR. E.Nandakumar
Faculty	HD	Principal

Head, Dept. Of Civil



TEST PLAN FOR SUBJECT

Subject : CE 8604 Highway Engineering Faculty : S. Keerthi Balan

Semester : VI Year : 21-22 (III Year)

Department : Civil Engineering

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1	INTERNAL TEST-I	04/04/22	20/04/22	College Reopening date 16.03.22 only
2	INTERNAL TEST-II	09/05/22	18/05/22	Due to late reopening
3	MODEL EXAM	06/06/22	11.06.22	Due to late reopening

	Prepared By
Sign:	<i>S. Keerthi</i>
Name:	S. Keerthi Balan
	Faculty

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



Approved By

N. Vellingiri
N. Vellingiri

Head, Dept. Of Civil



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RESULT ANALYSIS OF TEST

Subject **CE 8604 Highway Engineering** Date **21.04.2022**
Class **III** Department **Civil Engineering**
Semester **VI**
Exam details & date **20.04.2022 & Internal Test - I**
Faculty **S. KeerthiBalan**
Number of students : **02**
No. of students attended : **02**
No. of students absent : **—**
No. of students passed : **02**
No. of students failed : **—**
Percentage of failures : **—**

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	—	—	02	—	—

	Prepared By	Approved By
Sign:		
Name:	S. KeerthiBalan	N. Venkatesh
	Faculty	HOD

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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RESULT ANALYSIS OF TEST

Subject : CE 8604 Highway Engineering Date : 18.05.2022
 Class : III Department : Civil Engg
 Semester : VI
 Exam details & date : 18.05.2022 & Internal Test - II
 Faculty : S. Keerthibalan
 Number of students : 02
 No. of students attended : 02
 No. of students absent : -
 No. of students passed : 02
 No. of students failed : -
 Percentage of failures : -

RESULT DATA:

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

Prepared By
 Sign: 
 Name: S. Keerthibalan
 Faculty: 
 Dr. M. VIJAYAKUMAR ME., Ph.D.,
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Approved By

 N. Vellingiri
 Head, Dept. of Civil

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Vijayamangalam

RESULT ANALYSIS OF TEST

Subject : CE 8601 Highway Engineering Date : 11.06.22
Class : III Department : CIVIL
Semester : VI
Exam details & date : 11.06.22 & Model Exam
Faculty : S. Keerthibalan
Number of students : 02
No. of students attended : 02
No. of students absent : -
No. of students passed : 02
No. of students 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:	
Name: S. Keerthibalan	N. Vellingiri

Dr. M. VIJAYAKUMAR ME., Ph.D.,
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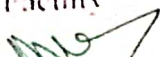
III
Head, Dept. Of Civil

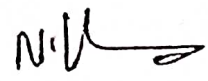
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CORRECTIVE ACTION REPORT

Dept. CIVIL ENGINEERING Year III
Subject CE 8604 HIGHWAY ENGINEERING Semester VI

S.No	Internal Test	Percentage of marks	Root Cause (Metrics)	Corrective Action	Deadline date	Remarks
1	Internal Test - I	100 %	—	—	—	—
2	Internal Test - II	100 %	—	—	—	—
3	Model Exam	100 %	—	—	—	—

Prepared By
Sign: 
Name: S. Keerthi balan
Faculty 

Approved By

N. Vellingiri
HOD



SASURIE

QUALITY OBJECTIVE MONITORING RECORD

Department : CIVIL ENGINEERING

Year : III

Semester : VI

Subject : CE8604 HIGHWAY ENGINEERING

S.No	Quality Objective	Internal Test-I		Internal Test-II		Model Test-I	
		Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
1	To know about the highway to Engineering with respect to planning, design, construction and maintenance as per IRC	100-%	100-%	100-%	100-%	100-%	100-%

	Prepared By	Approved By
Sign:	<i>S. Keerthy</i>	<i>N.V.</i>
Name:	S. Keerthibalan	N.Vellingiri

Faculty

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SASURIE
College of Engineering
Vijayamangalam, Tiruppur.

Academic Year 2021 - 2022 EVEN Semester

Department of Civil Engineering

III CIVIL - HIGHWAY TEST MARKS

Sl. No	Register Number	Student's Name	IT 1	IT 2	MODEL
1	732419103001	V.PRAKASH	68	92	76
2	732419103002	H VIPIN	52	70	64

No of Students Absent	0	0	0
No of Students Present	2	2	2
No of Students Attended	2	2	2
No of Students Pass	2	2	2
No of Students Fail	0	0	0
Pass Percentage	100%	100%	100%

	Prepared By	Verified By
SIGN		
NAME	S.Keerthibalan	N Vellingiri
	Faculty	HD

Dr.M.VIJAYAKUMAR M.E., Ph.D.,
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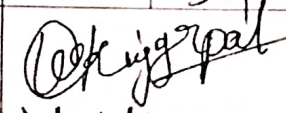
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Internal Assessment Test Answer Book

Name	V. Prakash			Year/ Semester/Section	ii / iv
Register Number	732419(03001)	Date/Session	20.4.2022 FN	Department	CIVIL
Course code	CE8604	Course Title	Highway Engineering		
Internal Assessment Test	IAT 1 <input checked="" type="checkbox"/>	IAT 2 <input type="checkbox"/>	IAT 3 <input type="checkbox"/>	Model	<input type="checkbox"/>
Name and Signature of the Invigilator with date	Manoharan 20/4/22				

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	✓	8	—	8
2	✓	2	12	✓	13	—	13
3	✓	2	13		—		—
4	✓	2	14		—		—
5	✓	2	15		—		—
6	✓	2	16		—		—
7	✓	1	Grand Total				21
8	✓	0	34 Grand Total				 Name and Signature of the Examiner with date
9	✓	0					
10	✓	0					
Total		13					

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	50	—	—	—	—	—	50
Marks Obtained	34	—	—	—	—	—	34
IQAC Audit - Remarks							 V. Venugopal Name and Signature of the IQAC member
Mark Verified							



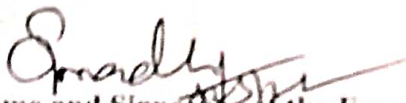
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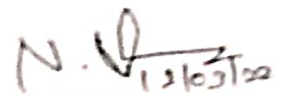
DEPARTMENT OF CIVIL ENGINEERING

Assignment Question Paper

Assignment - 01			Date of Issue:	12 03 2022	Marks	10
Course code	CE604	Course Title	HIGHWAY ENGINEERING			
Year	III	Semester/Section	VI / A & B	Date of Submission:	24 03 2022	

Q.No	Questions	CO
1	Explain the history of construction	C604.1
2	Explain the tresaguet construction	C604.1


Name and Signature of the Faculty Incharge
S. Madhavan


HoD/Civil
N. Vellingiri


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

DEPARTMENT OF CIVIL ENGINEERING

Assignment Answer Sheet

Name of the Student : H. Vipin

AU Register Number: 732219103002

Assignment - 01			Date of Issue:	12.03.2022	Marks	10
Course code	CE8604	Course Title	HIGHWAY ENGINEERING			
Year	III	Semester/Section	VI	Date of Submission:	17.03.2022	

Q.No	Questions	CO
1	Explain the history of construction	C604.1
2	Explain the tresaguet construction	C604.1

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

S. Madhavan

N.V.
HoD/Civil 15/03/22

N. Vellingiri

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