

Criterion 2 Teaching Learning and Evaluation



2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Sl. No	Particulars	
1	Sample Remedial Document	
2	Sample Grade Improvement Document	
3	Sample Technical Competition Certificates	
4	Sample Gate Score Cards	
5	Real-timeProjects for Advanced Learners -Report	



1. Sample Remedial Document

SSET/NBA/CE/P-

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY,

KARUKUTTY - 683576

List of students for remedial classes

Name of the Department	: Civil Engineering
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I
Semester & Year of study	: S5 CE & CV, 2023-24
Batch	: 2021-2025
Total No. of students	: 13

Remedial classes date : 07/08/2023, 14/08/2023, 21/08/2023, 04/09/2023, 18/09/2023, 25/09/2023, 16/10/2023, 04/11/2023, 05/11/2023, 13/11/2023 List of students selected for Remedial classes

Sl. No	Name of the Student
1	GOPIKA S
2	MALAVIKA R
3	MUHAMMED ADHIL
4	NAMRATHA B RAJ
5	PRAVIL VILSON
6	PUNNYA M
7	SANAT SANILKUMAR
8	SARANKUMAR V S
9	AISWARYA HARILAL
10	K P VISHNU PANICKER
11	MOHAMMED JAFAR.I
12	MUHAMMED ANAS M.K

14/11/2023

HOD

Faculty

KARUKUTTY – 683576

Attendance Details of remedial classes

Name of the Department	: Civil Engineering
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I
Semester & Year of study	: S5 CE , 2023-24
Batch	: 2021-2025
Total No. of students	: 13
Remedial classes date 18/09/2023,25/09/2023, 16/1	07/08/2023, 14/08/2023, 21/08/2023, 04/09/2023, 0/2023, 04/11/2023, 05/11/2023, 13/11/2023

Mode of conduct : Offline Sessions

Total No. of Remedial classes hours: 10

Sl.No	Name of the student	No. of hrs attended	Attendance %
1	GOPIKA S	9	90
2	MALAVIKA R	9	90
3	MUHAMMED ADHIL	9	90
4	NAMRATHA B RAJ	9	90
5	PRAVIL VILSON	9	90
6	PUNNYA M	7	70
7	SANAT SANILKUMAR	7	70
8	SARANKUMAR V S	2	20
9	AISWARYA HARILAL	6	60
10	K P VISHNU PANICKER	8	80
11	MOHAMMED JAFAR.I	7	70
12	MUHAMMED ANAS M.K	8	80

(ON 14/11/23

14/11/2023

Faculty

HOD

KARUKUTTY – 683576

Content Delivery Details of remedial classes

Name of the Department: Civil EngineeringName of the Course & Code: CET 301 STRUCTURAL ANALYSIS ISemester & Year of study: S5 CE & CV, 2023-24Batch: 2021-2025Total No. of students: 24No. of students in Remedial classes : 13

Units taught : Module 1, 2,3,4,5

Sl.No	Topics Covered	No. of Hours	Date of Delivery
1.	Truss analysis Numerical problems	1	07/08/2023
2.	Truss analysis- method of sections	1	14/08/2023
3	Unit load method-beam	1	21/08/2023
4	Unit load method- portal frame	1	04/09/2023
5	Method of consistent deformation	1	18/09/2023
6	Slope deflection method	1	25/09/2023
7	Analysis of cable	1	16/10/2023
8	Analysis of cable using vector diagram	1	04/11/2023
9	Analysis of arches	1	05/11/2023
10	Influence line diagram	1	13/11/2023

14/11/2023

Faculty

HOD

KARUKUTTY - 683576

Details of remedial classes Test

Name of the Department	: Civil Engineering
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I
Semester & Year of study	: S5 CE & CV, 2023-24
Batch	: 2021-2025
Total No. of students	: 24

No. of students in Remedial classes : 13

S.No	Name	% scored in remedial Test	Remarks
1.	GOPIKA S	50	Improved
2.	MALAVIKA R	56	Improved
3.	MUHAMMED ADHIL	61	Improved
4.	NAMRATHA B RAJ	62	Improved
5.	PRAVIL VILSON	35	Not improved
6.	PUNNYA M	52	Improved
7.	SANAT SANILKUMAR	53	Improved
8.	SARANKUMAR V S	58	Improved
9.	AISWARYA HARILAL	30	Not improved
10.	K P VISHNU PANICKER	64	Improved
11.	MOHAMMED JAFAR.I	30	Not improved
12.	MUHAMMED ANAS M.K	65	Improved

11/23

14/11/2023

Faculty

HOD



2. Sample Grade Improvement Document

SSET/NBA/CE/P-

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY,

KARUKUTTY - 683576

List of students for Grade Improvement Classes

Name of the Department	: Civil Engineering
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I
Semester & Year of study	: S5 CE & CV , 2023-24
Batch	: 2021-2025
Total No. of students	: 10

Grade Improvement classes date : 07/08/2023, 14/08/2023, 21/08/2023, 04/09/2023, 18/09/2023, 25/09/2023, 16/10/2023, 04/11/2023, 05/11/2023, 13/11/2023

List of students selected for grade improvement classes

Sl. No	Name of the Student
1	AARDRA AMRITH KUMAR
2	ANAGHA SADAN K S
3	ANUPRIYA SHAJI
4	AYSHA NOURIN E N
5	NISHAB K
6	SANDRA ROSE DAVIS
7	SWATHY M VIJAYAN
8	ARCHANA .K. DINESH
9	ANNAPOORNA LEKHI
10	DURGA V NAIR

4/11/23

14/11/2023

Faculty

HOD

KARUKUTTY – 683576

Attendance Details of Grade Improvement classes

Name of the Department	: Civil Engineering		
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I		
Semester & Year of study	: S5 CE & CV, 2023-24		
Batch	: 2021-2025		
Total No. of students	: 10		
Grade Improvement classes date: 07/08/2023, 14/08/2023, 21/08/2023, 04/09/2023,			

18/09/2023,25/09/2023, 16/10/2023, 04/11/2023, 05/11/2023, 13/11/2023

Mode of conduct : Offline Sessions

Total No. of Grade Improvement classes hours: 10

Sl.No	Name of the student	No. of hrs attended	Attendance %
1	AARDRA AMRITH KUMAR	10	100
2	ANAGHA SADAN K S	10	100
3	ANUPRIYA SHAJI	6	60
4	AYSHA NOURIN E N	10	100
5	NISHAB K	8	80
6	SANDRA ROSE DAVIS	10	100
7	SWATHY M VIJAYAN	9	90
8	ARCHANA .K. DINESH	10	100
9	ANNAPOORNA LEKHI	10	100
10	DURGA V NAIR	10	100

14/11/2023

Faculty

HOD

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY, KARUKUTTY – 683576

Content Delivery Details of Grade Improvement classes

Name of the Department	: Civil Engineering
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I
Semester & Year of study	: S5 CE & CV, 2023-24
Batch	: 2021-2025
Total No. of students	: 24
No. of students in Grade Imp	rovement classes : 10

Units taught : Module 1, 2,3,4,5

Sl.No	Topics Covered	No. of Hours	Date of Delivery
1.	Truss analysis Numerical problems	1	07/08/2023
2.	Truss analysis- method of sections	1	14/08/2023
3	Unit load method-beam	1	21/08/2023
4	Unit load method- portal frame	1	04/09/2023
5	Method of consistent deformation	1	18/09/2023
6	Slope deflection method	1	25/09/2023
7	Analysis of cable	1	16/10/2023
8	Analysis of cable using vector diagram	1	04/11/2023
9	Analysis of arches	1	05/11/2023
10	Influence line diagram	1	13/11/2023

Cony 14/11/23

14/11/2023 <

Faculty

HOD

KARUKUTTY - 683576

Details of Grade Improvement Classes Test

Name of the Department	: Civil Engineering
Name of the Course & Code	: CET 301 STRUCTURAL ANALYSIS I
Semester & Year of study	: S5 CE & CV, 2023-24
Batch	: 2021-2025
Total No. of students	: 24

No. of students in Grade Improvement classes : 10

S.No	Name	% scored in Improvement Test	Remarks
1.	AARDRA AMRITH KUMAR	90	Improved
2.	ANAGHA SADAN K S	91	Improved
3.	ANUPRIYA SHAJI	95	Improved
4.	AYSHA NOURIN E N	90	Improved
5.	NISHAB K	87	Improved
6.	SANDRA ROSE DAVIS	88	Improved
7.	SWATHY M VIJAYAN	90	Improved
8.	ARCHANA .K. DINESH	90	Improved
9.	ANNAPOORNA LEKHI	86	Improved
10.	DURGA V NAIR	89	Improved

14/11/23

14/11/2023

Faculty

HOD



3. Sample Technical Competition Certificates



MATSUE, JAPAN - SAN'IN BUSINESS PITCH CONTEST

Organized by Matsue city Japan in association with ASA Kerala





B.Tech - S6CSE

AKASH T S Excellence Award B.Tech - S6CSE

A prize of 80000JPY will be awarded to the winners, along with an internship opportunity in Japan



CONGRATULATIONS



AADHITHYAN SUDHEESH KUMAR S2 Computer Science & Engineering

Elite + Silver (Topper 5 %) NPTEL Certification for Enhancing Soft Skills and Personality







SCINS SCHOOL OF ENGINEERING & TECHNOLOGY Vidya Nagar, Palissery, Karukutty, Ernakulam - 683576,Kerala, India. www.scmsgroup.org/sset







This certificate is presented to ANTONY SHINSON

For securing FIRST prize in BUILD FOR THRISSUR - PRODUCTATHON conducted on 17th October

2024 as part of Dyuthi - National Jech test by Swavalamban chair of MSME Solutions and Innovation and Entrepreneurship Development Centre, Government Engineering College Thrissur

\$ 50

Dr Harris Naduthodi tbi secretary

Dr Ajay James nodal officer







This certificate is presented to ANTONY KAREDAN

For securing FIRST prize in BUILD FOR THRISSUR - PRODUCTATHON conducted on 17th October

2024 as part of Dyuthi - National Jech test by Swavalamban chair of MSME Solutions and Innovation and Entrepreneurship Development Centre, Government Engineering College Thrissur

\$ 50

Dr Harris Naduthodi tbi secretary

Dr Ajay James nodal officer







This certificate is presented to ANSEL SEBASTIAN

For securing FIRST prize in BUILD FOR THRISSUR - PRODUCTATHON conducted on 17th October

2024 as part of Dyuthi - National Jech test by Swavalamban chair of MSME Solutions and Innovation and Entrepreneurship Development Centre, Government Engineering College Thrissur

\$ 50

Dr Harris Naduthodi tbi secretary

Dr Ajay James nodal officer







This certificate is presented to AKHIL DAVIS

For securing FIRST prize in BUILD FOR THRISSUR - PRODUCTATHON conducted on 17th October

2024 as part of Dyuthi - National Jech test by Swavalamban chair of MSME Solutions and Innovation and Entrepreneurship Development Centre, Government Engineering College Thrissur

00 - 50

Dr Harris Naduthodi tbi secretary

Dr Ajay James nodal officer



4. Sample Gate Score Card



Name of the Candidate

GRADUATE APTITUDE TEST IN ENGINEERING 2024

अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२४

ORGANISING INSTITUTE: INDIAN INSTITUTE OF SCIENCE, BENGALURU

SCORE CARD

CHACKOCHAN SEBASTIAN				50 CHACKOCA
Name of the Parent/Guardian SEBASTIAN GEORGE V	n		Â	St 100 Contractions
Registration No.	CS24S61400050			0 d c s i
Test Paper Computer Science and Inform	mation Technolog	y (CS)		14066.
Date of Examination	February 10, 20	24	-	55<916EI1629040
GATE Score	419	*Marks out of 100	33.93	
All India Rank (AIR)	10409	Qualifying Marks		L.D
in the test paper		General	27.6	-
Number of candidates		EWS/OBC-NCL	24.8	
appeared for the test paper	123967	SC/ST/PwD	18.4	*Normalized marks across two sessions of the test paper
Prof. Chandra Sekhar Seelam Organising Chairperson, GAT On behalf of NCB-GATE Ministry of Education (MoE)	hantula E 2024	d4f57437cc4fc86dbe478a966669243	cb	A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category, for which a valid category certificate, if applicable, must be produced along with this Score Card. This Score Card is valid up to 31st March 2027.

GATE SCORE COMPUTATION

The GATE 2024 score is calculated using the formula

GATE Score =
$$S_q + (S_t - S_q) \frac{(M - M_q)}{(M_t - M_q)}$$

where

M is the normalised marks obtained by the candidate in the paper mentioned on the GATE 2024 Score Card M_a is the qualifying marks for general category candidates in the paper

 M_t is the mean of marks of top 0.1% or top 10 (whichever is larger) of all the candidates who appeared for the test paper (i.e., including all sessions)

 $S_a = 350$, is the score assigned to M_a

 $S_t = 900$, is the score assigned to M_t



अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२४

ORGANISING INSTITUTE: INDIAN INSTITUTE OF SCIENCE, BENGALURU

SCORE CARD

Name	of	the	Canc	lidate
JFAN	AL.	COB	RA.J	FSH

				63) EAN/ ACO
Name of the Parent/Guardian RAJESH JOY	n			SS ADD BAR INSH
Registration No.	CS24S5140	0063	P	3 C S 3
Test Paper Computer Science and Inform	mation Techn	ology (CS)		10202 5
Date of Examination	February 10), 2024	-	0108101458C3533
GATE Score	393	*Marks out of 100	31.52	
All India Rank (AIR)	12873	Qualifying Marks		Alaurt
in the test paper		General	27.6	Arent J
Number of candidates		EWS/OBC-NCL	24.8	
appeared for the test paper	123967	SC/ST/PwD	18.4	*Normalized marks across two sessions of the test paper
Hundra Sekhar Seelam	hantula		A th ec fo ce al	candidate is considered qualified if the marks secured are greater than or qual to the qualifying marks mentioned or the category, for which a valid category ertificate, if applicable, must be produced ong with this Score Card.
Organising Chairperson, GAT On behalf of NCB-GATE Ministry of Education (MoE)	E 2024	223f52a203dbfdb14c0c347754bf0a38		This Score Card is valid up to 31 st March 2027.

GATE SCORE COMPUTATION

The GATE 2024 score is calculated using the formula

GATE Score =
$$S_q + (S_t - S_q) \frac{(M - M_q)}{(M_t - M_q)}$$

where

M is the normalised marks obtained by the candidate in the paper mentioned on the GATE 2024 Score Card M_a is the qualifying marks for general category candidates in the paper

 M_t is the mean of marks of top 0.1% or top 10 (whichever is larger) of all the candidates who appeared for the test paper (i.e., including all sessions)

 $S_a = 350$, is the score assigned to M_a

 $S_t = 900$, is the score assigned to M_t



अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२४

ORGANISING INSTITUTE: INDIAN INSTITUTE OF SCIENCE, BENGALURU

SCORE CARD

Name of the Candidate
DADVATUV NANDAKIMAD

PARVAINY NANDAKUMAR				16PARVATAL
Name of the Parent/Guardia P N NANDAKUMAR	n	L F	<u> </u>	SS POOL
Registration No.	CS24S51400	016		MAR I
Test Paper Computer Science and Infor	mation Techno	ology (CS)		10.367
Date of Examination	February 10,	2024	-	626228Et1506029
GATE Score	367	*Marks out of 100	29.2	1
All India Rank (AIR)	15643	Qualifying Marks		tok.
in the test paper		General	27.6	XXX
Number of candidates		EWS/OBC-NCL	24.8	
appeared for the test paper	123967	SC/ST/PwD	18.4	*Normalized marks across two sessions of the test paper
Prof. Chandra Sekhar Seelan Organising Chairperson, GAT On behalf of NCB-GATE Ministry of Education (MoE)	nantula E 2024	a3a331c41da60f16b85ed99766521e4	d	A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category, for which a valid category certificate, if applicable, must be produced along with this Score Card. This Score Card is valid up to 31 st March 2027.

GATE SCORE COMPUTATION

The GATE 2024 score is calculated using the formula

GATE Score =
$$S_q + (S_t - S_q) \frac{(M - M_q)}{(M_t - M_q)}$$

where

M is the normalised marks obtained by the candidate in the paper mentioned on the GATE 2024 Score Card M_a is the qualifying marks for general category candidates in the paper

 M_t is the mean of marks of top 0.1% or top 10 (whichever is larger) of all the candidates who appeared for the test paper (i.e., including all sessions)

 $S_a = 350$, is the score assigned to M_a

 $S_t = 900$, is the score assigned to M_t



अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२४

ORGANISING INSTITUTE: INDIAN INSTITUTE OF SCIENCE, BENGALURU

SCORE CARD

Name of the Candidate				
			61	2059SOURAVES
Name of the Parent/Guardian DINESHAN K	ı			55 th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Registration No.	CS24S514130	59	F	0 1 0
Test Paper Computer Science and Inform	nation Technol	logy (CS)		40200 V
Date of Examination	February 10,	2024	-	S B MO S I LEVEDTO
GATE Score	566	*Marks out of 100	47.44	
All India Rank (AIR)	3234	Qualifying Marks		
in the test paper		General	27.6	A P
Number of candidates		EWS/OBC-NCL	24.8	
appeared for the test paper	123967	SC/ST/PwD	18.4	*Normalized marks across two sessions of the test paper
Prof. Chandra Sekhar Seelan Organising Chairperson, GAT On behalf of NCB-GATE Ministry of Education (MoE)	hantula E 2024	099a858724e0190703ef1ada52059ba	A th cc al	candidate is considered qualified if the marks secured are greater than or qual to the qualifying marks mentioned or the category, for which a valid category ertificate, if applicable, must be produced long with this Score Card. This Score Card is valid up to 31 st March 2027.

GATE SCORE COMPUTATION

The GATE 2024 score is calculated using the formula

GATE Score =
$$S_q + (S_t - S_q) \frac{(M - M_q)}{(M_t - M_q)}$$

where

M is the normalised marks obtained by the candidate in the paper mentioned on the GATE 2024 Score Card M_a is the qualifying marks for general category candidates in the paper

 M_t is the mean of marks of top 0.1% or top 10 (whichever is larger) of all the candidates who appeared for the test paper (i.e., including all sessions)

 $S_a = 350$, is the score assigned to M_a

 $S_t = 900$, is the score assigned to M_t



अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२४

ORGANISING INSTITUTE: INDIAN INSTITUTE OF SCIENCE, BENGALURU

SCORE CARD

Name of the Candidate ABHIRAM R				29ABHIRAMO
Name of the Parent/Guardian RAMESH KUMAR B	1	C I	97	\$1200 00 100 100 000 000 000 000 000 000
Registration No.	EC24S77220	029		BEC2
Test Paper Electronics and Communicat	ion Engineerin	ıg (EC)	1	2 9 0 4 2
Date of Examination	February 11, 2	2024	-	EEE6x5571110120
GATE Score	459	Marks out of 100	32.33	PS STORES
All India Rank (AIR)	3077	Qualifying Marks		of it was
in the test paper		General	25.0	Assa.
Number of candidates		EWS/OBC-NCL	22.5	
appeared for the test paper	63092	SC/ST/PwD	16.6	

Prof. Chandra Sekhar Seelamantula Organising Chairperson, GATE 2024 On behalf of NCB-GATE Ministry of Education (MoE)



2c6019d2b1f7af72d76e27a2396bf202

A candidate is considered **qualified** if the marks secured are greater than or equal to the qualifying marks mentioned for the category, for which a valid category certificate, if applicable, must be produced along with this Score Card.

This Score Card is valid up to 31st March 2027.



5. Real-time Projects for Advanced Learners -Report

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY, KARUKUTTY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Report On the event of honouring the interns for collaborating in the project with Bharat Tech Foundation and Pradjna Intellisys Pvt Ltd.



SCMS School of Engineering and Technology,

Karukutty, Ernakulam, Kerala 683576

PROGRAM SCHEDULE

Honoring the interns for collaborating in the project with Bharat Tech Foundation and Pradjna Intellisys Pvt Ltd.

5th March, 2024 @ 10.30 am

Welcome Address	Dr. Varun G Menon Deputy Dean, Research and Development
Project Report	Ms. Josna Philomina Faculty Advisor
Presidential Address	Dr. Anitha G Pillai Principal, SSET
Felicitation and Prize Distribution	Mr. Sunil Haridas Founder and CEO Pradjna Intellisys Pvt Ltd. Mr. Surendra Kumar Founder of Solution Hub Dr. Praveensal C J Campus Director, SSET
Experience Sharing	Mr. Anirudh V Kumar Student, S6CSE-1
Vote of thanks	Ms. Santheri Bhat Student, S6CSE-2

Venue: Conference Hall Admin Block, SSET

The Department of Computer Science and Engineering (CSE) initiated a collaborative project titled "Real-time Visualization of Trains, Signals, Tracks, and Level Crossings using FRMCS Technology for Indian Railways" in September 2023, partnering with Bharat Tech Foundation and Pradjna Intellisys Pvt. Ltd.

In the project's first phase, the aim was to develop an interactive multimedia proposal to be presented to the top management of the railways. Unity, an AR/VR tool, is being utilized as the development platform. A team comprising six interns from third year Computer science and Data Science, along with a faculty advisor and a co-advisor, was formed.

Team Members

Anandjith J, S6 CS1

Anirudh V Kumar, S6 CS1

Santheri Bhat, S6 CS2

Rishikesh, S6 CS2

Chrisopher joy, S6 CO

Dhibi Pradeep, S6 CO

Ms. Josna Philomina , Faculty Advisor

Dr Varun G Menon, Faculty Co-Advisor

Dr. Sunil Haridas, Industry Advisor

Mr. Surendra Kumar, Industry Advisor

Dr. Ajith Chandran, Industry Advisor.

The project commenced with an online orientation session on September 21, 2023. During this session, the industry team outlined a storyboard consisting of three different scenarios. The team was divided into three groups, each tasked with working on one scenario.

As part of the project, a field visit was recommended by the industry team for better understanding. Er. N Ramachandran, RETD SENIOR DIVISION SIGNAL AND TELECOM ENGINEER facilitated the visit at Ernakulam Junction station. Two interns, Ms. Santheri Bhat and Mr. Rishikesh, had the opportunity to visit the station's control room on October 27, 2023.

Over the past six months, the team has held bi-weekly meetings for progress discussions and presentations. The industry advisors have provided valuable feedback, suggestions, and encouragement, which have motivated the students to work diligently and complete the project on schedule. The first phase of the project was completed successfully in February 2024. Our students did very good work and received excellent feedback and appreciation from the industry team.

The first phase of the project ,Interactive Multimedia Presentation for the Proposal was completed successfully in February 2024. Industry team presented mementos and certificates to the students and faculty on March 5,2024.

As we present our journey through this project report till now, I am reminded of the countless hours of dedication, collaboration, and perseverance that have brought us to this moment. I am incredibly proud of the hard work and commitment demonstrated by our team, and I am confident that the insights and recommendations presented in this report will serve as a catalyst for positive change and transformation further for the next phase.



Image Appendix





Prepared by,

Ms. Josna Philomina, Assistant professor, Computer science and Engineering, SSET