

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

CRITERIA 1

CURRICULAR ASPECTS

1.3: Curriculum Enrichment



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

1.3.2: Percentage of students undertaking project work/field work/ internships



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

PROJECT WORK

M.TECH



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Department of Civil Engineering M. Tech (Environmental Engineering)

Batch 21-23

Sl.No	Roll No.	Name of student	Project title	Place of work
1	MTE/826/21	Adwaith B	Optimization Of Time-Integrated Sediment Sampler And Sediment Characterization	SSET Environmental Engineering Lab
2	MTE/807/21	Agnas Devassy	Vertical Flow Reed Bed System	SSET Environmental Engineering Lab
3	MTE/825/21	Ann Marria Assissi	Threat Assessment in Water Distribution Networks	SSET Environmental Engineering Lab
4	MTE/800/21	Arathi Sreekumar	Mitigation And Analysis of Scaling in Irrigation Pipelines at Chittur	SSET Environmental Engineering Lab
5	MTE/822/21	Devika J	Climate Change Modelling	SSET Environmental Engineering Lab
6	MTE/797/21	Diya Faizel S	Sampling And Characterization of Airborne Microplastics in An Urban Area	SSET Environmental Engineering Lab
7	MTE/812/21	Gopika Krishnan	Modelling Of Sea Water Intrusion in Selected Coastal Areas of Alappuzha District	SSET Environmental Engineering Lab
8	MTE/801/21	Keerthu Anil	Phytoremediation Of Heavy Metals In Kadambayar River By Water Hyacinth	SSET Environmental Engineering Lab
9	MTE/817/21	Nitu Haridas	Sediment Transport Modelling In Watershed Of Kadambayar River Using Hec-Hms And Hec-Ras	SSET Environmental Engineering Lab
10	MTE/816/21	Rithu Ullas	Study On Feasibility Of Double Chambered Mfc For The Treatment Of Textile Waste Water	SSET Environmental Engineering Lab
11	MTE/818/21	Rose Mary Jojo	Modeling Of Ground Water	SSET Environmental Engineering Lab
12	MTE/806/21	Shahana Younus	Modeling Of Ground Water Fluctuations In Chittur	SSET Environmental Engineering Lab

13	MTE/813/21	Sona B K	Flood-Induced Changes In Soil Properties And The Mobility Of Potentially Toxic Elements (Ptes) In Soils.	SSET Environmental Engineering Lab
14	MTE/798/21	Vismaya G Kumar	Analysis Of Waste Bins Location & Route Optimization Using Matlab	SSET Environmental Engineering Lab
15	MTE/762/20	Ashitha K S	Air Pollution Modelling	SSET Environmental Engineering Lab

Mle

Head of the Department

Jithu



PRINCIPAL
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYANAGAR, PALLISSERY, KARUKUTTY
ERNAKULAM, KERALA-683 576



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Vidya Nagar, Palissery, Karukutty, Kerala 683576

Department of Civil Engineering M. Tech (Computer Aided Structural Engineering)

Batch 21-23

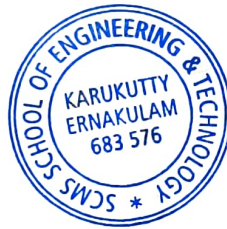
Sl.No	Roll No.	Name of student	Project title	Place of work
1	MTC/821/21	Abhijith T S	Seismic behavior of welded connection with replacable damage control fuses	SSET Material Testing Lab
2	MTC/811/21	Althaf Ahammed D H	Seismic performance of RC frames after fire exposure	SSET Material Testing Lab
3	MTC/823/21	Anisha Peter Kp	Numerical simulation of fire resistance for hybrid GFRP sandwich panel with different core configuration	SSET Material Testing Lab
4	MTC/796/21	Divya Sahadevan	FEA of different configurations of beam-column junction of a tubular GFRP by bond sleeve connection	SSET Material Testing Lab
5	MTC/809/21	Irin Sabu	Performance of crumb rubber in concrete	SSET Material Testing Lab
6	MTC/810/21	Jerome Joy	Bridge deterioration prediction using machine learning techniques	SSET Material Testing Lab
7	MTC/824/21	Jineesha George	concrete technology using plastic fibers	SSET Material Testing Lab
8	MTC/815/21	Keerthi K Menon	Prediction of compressive strength of concrete using machine learning algorithms	SSET Material Testing Lab
9	MTC/808/21	Lakshmi Priya M P	Topology Optimization of Bridge Girder	SSET Material Testing Lab
10	MTC/802/21	Nivya Mary	Optimisation and strengthening of Plastic Hinge	SSET Material Testing Lab
11	MTC/820/21	Saaya Leons	FEA investigation on fillet welds to hollow structural sections	SSET Material Testing Lab
12	MTC/804/21	Sithara K	numerical analysis of an auxetic honey comb core sandwich panel subjected to explosion	SSET Material Testing Lab
13	MTC/799/21	Sneha J Raj	Finite Element Investigation on performance of Circular Hyperboloid Base Isolation System with SMA	SSET Material Testing Lab

14	MTC/819/21	Sniya Leons	comparative assessment of batter pile and under-reamed pile under dynamic loads	SSET Material Testing Lab
15	MTC/803/21	Timna P Martin	Exploring the application of Adaptive structure which adapts through large shape changes	SSET Material Testing Lab

[Handwritten signature]

Head of the Department

[Handwritten signature]



PRINCIPAL
 SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
 VIDYANAGAR, PALLISSERY, KARUKUTTY
 ERNAKULAM, KERALA-683 576

INTEGRATION OF TOPOLOGY OPTIMIZATION IN KOCHI METRO GIRDER

PROJECT REPORT

Submitted by

LAKSHMIPRIYA M P

SCM21CECS09

to the APJ Abdul Kalam Technological University

in partial fulfilment of the requirements for the award of the Degree of Master of Technology

in

Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

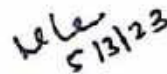
This is to certify that the report entitled "INTEGRATION OF TOPOLOGY OPTIMIZATION IN KOCHI METRO GIRDER" submitted by Lakshmipriya M P to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


5/3/2023

Internal supervisor
Ms. Anju Mary Ealias
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology



PG Coordinator
Ms. Nandita Mohan
Assistant Prof.
Department of Civil Engineering
SCMS school of engineering and technology


5/3/23

Head of the Department
Dr. Nisha L
Associate Professor and Head
of the Department
Department of Civil Engineering
SCMS school of Engineering &
Technology

NUMERICAL ANALYSIS OF AUXETIC SANDWICH PANELS UNDER EXPLOSION

A PROJECT REPORT

submitted by

SITHARA K

SCM21CECS12

to the APJ Abdul Kalam Technological University
in partial fulfilment of the requirements for the award of the Degree of Master of Technology in
Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576


MAY 2023


DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY




CERTIFICATE

This is to certify that the report entitled “NUMERICAL ANALYSIS OF AUXETIC SANDWICH PANELS UNDER EXPLOSION” submitted by **Sithara K** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


31/5/2023
Internal supervisor
Geethu.R.Babu
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology


31/5/23
PG Coordinator
Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology


31/5/23
Head of the Department
Dr.Nisha.L
Associate Professor and Head
of the Department
Civil Engineering Department
SCMS school of Engineering &
Technology

INTEGRATION OF TOPOLOGY OPTIMIZATION IN KOCHI METRO GIRDER

PROJECT REPORT

Submitted by

LAKSHMIPRIYA M P

SCM21CECS09

to the APJ Abdul Kalam Technological University

in partial fulfilment of the requirements for the award of the Degree of Master of Technology

in

Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576


MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY




CERTIFICATE

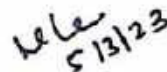
This is to certify that the report entitled "INTEGRATION OF TOPOLOGY OPTIMIZATION IN KOCHI METRO GIRDER" submitted by Lakshmipriya M P to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


5/3/2023

Internal supervisor
Ms. Anju Mary Ealias
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology



PG Coordinator
Ms. Nandita Mohan
Assistant Prof.
Department of Civil Engineering
SCMS school of engineering and technology


5/3/23

Head of the Department
Dr. Nisha L
Associate Professor and Head
of the Department
Department of Civil Engineering
SCMS school of Engineering &
Technology

NUMERICAL ANALYSIS OF AUXETIC SANDWICH PANELS UNDER EXPLOSION

A PROJECT REPORT

submitted by

SITHARA K

SCM21CECS12

to the APJ Abdul Kalam Technological University
in partial fulfilment of the requirements for the award of the Degree of Master of Technology in
Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576


MAY 2023


DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled “NUMERICAL ANALYSIS OF AUXETIC SANDWICH PANELS UNDER EXPLOSION” submitted by **Sithara K** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


31/5/2023
Internal supervisor
Geethu.R.Babu
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology


31/5/23
PG Coordinator
Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology


31/5/23
Head of the Department
Dr.Nisha.L
Associate Professor and Head
of the Department
Civil Engineering Department
SCMS school of Engineering &
Technology

**MECHANICAL MODEL ANALYSIS ON NEGATIVE
STIFFNESS SCRAGGED SPRING BASED DAMPER OVER
SEISMIC RESPONSE**

A PROJECT REPORT

submitted by

SNEHA J RAJ

SCM21CECS13

*to the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the Degree of
Master of Technology*

in
Committee of Structural Engineering



**Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576**

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled “MECHANICAL MODEL ANALYSIS ON NEGATIVE STIFFNESS SCRAGGED SPRING – BASED DAMPER OVER SEISMIC RESPONSE” submitted by **Sneha J Raj** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Jerry
03/05/23

Internal supervisor

Mr. Jerry Anto
Assistant Professor
Department of Civil Engineering
SCMS School of Engineering & Technology

Nisha
3/5/23

Head of the Department

Dr. Nisha.L
Associate Professor and Head
of the Department
Civil Engineering Department
SCMS School of Engineering
& Technology

Nandita
21/5/23

PG Coordinator

Ms. Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS School of Engineering and Technology

**FINITE ELEMENT ANALYSIS OF DIFFERENT
CONFIGURATIONS OF BEAM – COLUMN JUNCTION
OF A TUBULAR GFRP BY BOND SLEEVE
CONNECTION**

PROJECT REPORT

Submitted by

DIVYA SAHADEVAN

SCM21CECS04

to the APJ Abdul Kalam Technological University

in partial fulfillment of the requirements for the award of the Degree of Master of Technology

in

Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled “FINITE ELEMENT ANALYSIS OF DIFFERENT CONFIGURATIONS OF BEAM-COLUMN JUNCTION OF A TUBULAR GFRP BY BOND SLEEVE CONNECTION” submitted by Divya Sahadevan to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal supervisor

Mr. Jerry Anto

Assistant Professor

Department of Civil Engineering

SCMS school of Engineering & Technology

PG Coordinator

Ms. Nandita Mohan

Assistant Prof.

Department of Civil Engineering

SCMS school of engineering and technology

Head of the Department

Dr. Nisha. L

Associate Professor and Head
of the Department

Civil Engineering Department
SCMS school of Engineering &
Technology

PROJECT REPORT ON

**EFFECT OF GRAPHENE OXIDE ON
CONCRETE INDUCED WITH RICE HUSK ASH**

Submitted by

ALTHAF AHAMMED D H

SCM21CECS02

to the APJ Abdul Kalam Technological University in partial
fulfillment of the requirements for the award of the Degree of Master
of Technology in
Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering &
Technology
Vidya Nagar, Karukutty, Kerala - 683576

May 2023

DEPARTMENT OF CIVIL ENGINEERING

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled "EFFECT OF GRAPHENE OXIDE ON CONCRETE INDUCED WITH RICE HUSK ASH" submitted by **ALTHAF AHAMMED D H** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by his under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal supervisor
Tenu Syriac
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology

Head of the Department
Dr. Nisha L.
Associate Professor and Head
of the Department
Department of Civil Engineering
SCMS school of Engineering &
Technology

PG Coordinator
Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS school of engineering and technology

COMPARATIVE ASSESSMENT OF DYNAMIC BEHAVIOUR OF STEEL AND STEP-TAPERED COMPOSITE BATTER PILE UNDER HORIZONTAL EXCITATION

PROJECT REPORT

submitted by

SNIYA LEONS

Reg. No. SCM21CECS14

to the APJ Abdul Kalam Technological University in partial
fulfilment of the requirements for the award of the Degree of

Master of Technology

in

Computer-Aided Structural Engineering



Department of Civil Engineering

SCMS School of Engineering & Technology

Vidya Nagar, Karukutty, Kerala – 683 576

May 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the project report titled “COMPARATIVE ASSESSMENT OF DYNAMIC BEHAVIOR OF STEEL AND STEP-TAPERED COMPOSITE BATTER PILE UNDER HORIZONTAL EXCITATION” submitted by **Sniya Leons**, to the APJ Abdul Kalam Technological University in partial fulfilment of the requirement for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not being submitted to any other university or institute for any purpose.

Internal supervisor
Ms. Anjana Susan John
Assistant professor,
Department of Civil Engineering,
SCMS School of Engineering
and Technology, Karukutty

Head of the Department
Dr. Nisha L,
Associate Prof. and Head
Department of Civil Engineering,
SCMS School of Engineering
and Technology, Karukutty.

PG Coordinator
Ms. Nandita Mohan
Assistant professor,
Department of Civil Engineering,
SCMS School of Engineering
and Technology, Karukutty

**EFFECT OF NANOFILLER ON STRENGTH OF
HIGH-STRENGTH STEEL TRUSS JOINTS
BONDED WITH ACRYLIC ADHESIVES BY
USING SOLID-STATE WELDING**

PROJECT REPORT

submitted by

SAAYA LEONS

Reg. No. SCM21CECS11

to the APJ Abdul Kalam Technological University

in partial fulfilment of the requirements for the award of the degree of

Master of Technology

In

Computer-Aided Structural Engineering



Department of Civil Engineering

SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala – 683 576

May 2023

**DEPARTMENT OF CIVIL ENGINEERING SCMS
SCHOOL OF ENGINEERING & TECHNOLOGY**



CERTIFICATE

This is to certify that the project report titled “ **EFFECT OF NANOFILLER ON STRENGTH OF HIGH STRENGTH STEEL TRUSS JOINTS BONDED WITH ACRYLIC ADHESIVES BY USING SOLID–STATE WELDING**” submitted by **Saaya Leons** to the APJ Abdul Kalam Technological University in partial fulfilment of the requirement for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other university or institute for any purpose.

Internal supervisor
Ms.Nandita Mohan
Assistant professor,
Department of Civil Engineering,
SCMS School of Engineering
&Technology

Head of the Department
Dr. Nisha L
Associate Prof. and Head
Department of Civil Engineering
SCMS School of Engineering
& Technology

PG Coordinator
Ms. Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS School of Engineering and Technology

PROJECT REPORT ON

ANALYTICAL STUDY AND OPTIMISATION OF PLASTIC HINGE LENGTH

submitted by

NIVYA MARY KATISSERY

Reg. No. SCM21CECS10

to the APJ Abdul Kalam Technological University

in partial fulfilment of the requirements for the award of the Degree of

Master of Technology

Computer Aided Structural Engineering



Department of Civil Engineering

SCMS School of Engineering & Technology

Vidya Nagar, Karukutty, Kerala - 683 576

May 2023

DEPARTMENT OF CIVIL ENGINEERING SCMS
SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled “ANALYTICAL STUDY AND OPTIMISATION OF PLASTIC HINGE LENGTH” submitted by Nivya Mary Kattissery to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal supervisor
Ms. Tenu Syriac
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology

Head of the Department
Dr. Nisha.L
Associate Professor and Head
of the Department
Civil Engineering Department
SCMS school of
Engineering & Technology

PG Coordinator
Ms. Nandita Mohan
Assistant Prof.
Department of Civil Engineering
SCMS school of engineering and technology

**APPLICATION OF ADAPTIVE STRUCTURE CONCEPT IN MULTI
STOREYED STRUCTURE**

PROJECT REPORT

submitted by

TIMNA P MARTIN

Reg. No. SCM21CECS15

to the APJ Abdul Kalam Technological University

in partial fulfilment of the requirements for the award of the Degree

of

Master of Technology in

Computer Aided Structural Engineering



Department of Civil Engineering

SCMS School of Engineering & Technology

Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled “APPLICATION OF ADAPTIVE STRUCTURE CONCEPT IN MULTI STOREYED STRUCTURE” submitted by **Timna P Martin** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


31/5/23

Internal Supervisor

Ms. Geethu R Babu

Assistant Professor

Department of Civil Engineering

SCMS School of Engineering &

Technology


31/5/23

PG Coordinator

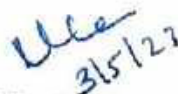
Ms. Nandita Mohan

Assistant Professor

Department of Civil Engineering

SCMS School of Engineering and

Technology


31/5/23

Head of the Department

Dr. Nisha L

Associate Professor and Head of
the Department

Department of Civil Engineering

SCMS School of Engineering &

Technology

BEHAVIOUR OF BAC MIXED CONCRETE WITH GRAPHENE OXIDE

Submitted by

JINEESHA GEORGE

SCM21CECS07

*To the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the Degree of
Master of Technology
in
Computer Aided Structural Engineering*



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala-683576

MAY 2023

**DEPARTMENT OF
CIVIL ENGINEERING SCMS SCHOOL
OF ENGINEERING & TECHNOLOGY**



CERTIFICATE

This is to certify that the report entitled **Behaviour of BAC Mixed Concrete with Graphene Oxide** submitted by **Jineesha George** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by him/her under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpo

Internal Supervisor
Ms. Nandita Mohan
Assistant Professor
Department of Civil Engg.
SCMS School of Engineering
& Technology.

PG Coordinator
Ms. Nandita Mohan
Department of Civil Engg
SCMS School of Engineering
& Technology

Head of the Department
Dr. Nisha L
Associate Professor
Department of Civil Engg
SCMS School of Engineering
& Technology

External Evaluation
has done on 05/06/23
AMM
Positive AP/6
C&E Through
External Examiners

**NUMERICAL SIMULATION OF FIRE RESISTANCE FOR
HYBRID FRP SANDWICH PANEL**

PROJECT REPORT

Submitted by

ANISHA PETER K.P

SCM21CECS03

to the APJ Abdul Kalam Technological University
in partial fulfilment of the requirements for the award of the Degree of Master of Technology
in
Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled "NUMERICAL SIMULATION OF FIRE RESISTANCE FOR HYBRID FRP SANDWICH PANEL" submitted by **Anisha Peter K.P** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Geethu R. Babu
03/05/23

Internal supervisor
Geethu.R.Babu
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology

Nisha L
21/5/23

Head of the Department
Dr.Nisha.L
Associate Professor and Head
of the Department
Civil Engineering Department
SCMS school of Engineering &
Technology

Nandita Mohan
3/5/23

PG Coordinator
Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology

External Exam Evaluation
05/06/23
MM
Approved APK
see Thirumal
External Examiner

EFFECT OF GRAPHENE OXIDE IN RUBBERIZED CONCRETE

PROJECT REPORT

Submitted by

IRIN SABU

SCM21CECS05

to

the APJ Abdul Kalam Technological University

in partial fulfillment of the requirements for the award of the Degree

of

Master of Technology

In

Computer Aided Structural Engineering



Department of Civil Engineering

SCMS School of Engineering & Technology

Vidya Nagar, Karukutty, Kerala - 683576

MAY 2023

**DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY,
KARUKUTTY**



CERTIFICATE

This is to certify that the project report entitled "**EFFECT OF GRAPHENE OXIDE IN RUBBERIZED CONCRETE**" was submitted by **IRIN SABU**, Reg No. **SCM21CECS05**, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of Degree of Master of Technology in Civil Engineering (Computer Aided Structural Engineering), is a bonafide record of the work carried out by her under guidance and supervision.

Internal Guide
Anjana Susan John
Assistant Professor
Department of Civil Engg.
SCMS School of Engineering
& Technology, Karukutty

Head of the Dept.
Dr. Nisha L
Associate Professor and Head
Department of Civil Engg.
SCMS School of Engineering
& Technology, Karukutty

PG Coordinator
Nandita Mohan
Assistant Professor
Department of Civil Engg.
SCMS School of Engineering
& Technology, Karukutty

SEISMIC BEHAVIOUR OF HIGH-STRENGTH STEEL-MOMENT FRAME WITH REPLACEABLE DAMAGE-CONTROL FUSES

PROJECT REPORT

Submitted by

ABHIJITH T S

SCM21CECS01

to the APJ Abdul Kalam Technological University

in partial fulfilment of the requirements for the award of the Degree of Master of Technology in

Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled "Seismic Behaviour of High-Strength Steel Moment Frame with Replaceable Damage Control Fuses" submitted by Abhijith T S to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by him under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

hady
3/5/23

Internal supervisor
Nandita Mohan
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology

Ull
31/5/23

Head of the Department
Dr.Nisha.L
Associate Professor and Head
of the Department
Department of Civil Engineering
SCMS school of Engineering &
Technology

hady
3/5/23

PG Coordinator
Nandita Mohan
Department of Civil Engineering
SCMS school of engineering and technology

Internal Project evaluation
done on 5/6/23

MM
Approved APIC
CBE Exam
External Exam

PREDICTION OF EARLY AGE COMPRESSIVE STRENGTH OF CONCRETE USING MACHINE LEARNING

Submitted by

KEERTHI K MENON

SCM21CECS08

*to the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the Degree of
Master of Technology
in
Computer Aided Structural Engineering*



Department of Civil Engineering
**SCMS School of Engineering &
Technology**
Vidya Nagar, Karukutty, Kerala - 683576


May 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled **“Prediction of Early Age Compressive Strength of Concrete using Machine Learning”** submitted by **Keerthi K Menon** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


3/5/23

Internal Supervisor
Ms. Anju Mary Ealias
Assistant Professor
Department of Civil Engineering
SCMS School of Engineering & Technology


3/5/23

Dr. Nisha L
Head of Department and
Associate Professor
Department of Civil Engineering
SCMS School of Engineering &
Technology


3/5/23

Ms. Nanditha Mohan
PG Coordinator
Department of Civil Engineering
SCMS School of Engineering & Technology

FATIGUE LIFE ASSESSMENT OF CHALAKUDY RAILWAY BRIDGE GIRDER UNDER STOCHASTIC TRAIN LOADS

PROJECT REPORT

Submitted by

JEROME JOY

SCM21CECS06

to the APJ Abdul Kalam Technological University
in partial fulfilment of the requirements for the award of the Degree of Master of Technology in
Computer Aided Structural Engineering



Department of Civil Engineering
SCMS School of Engineering & Technology
Vidya Nagar, Karukutty, Kerala - 683 576

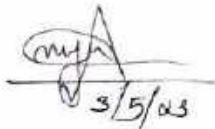
MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



CERTIFICATE

This is to certify that the report entitled “**Fatigue Life Assessment of Chalakudy Railway Bridge Girder Under Stochastic Train Loads**” submitted by **Jerome Joy** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Technology in Computer Aided Structural Engineering is a bonafide record of the project work carried out by him under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.



3/5/23

Internal supervisor
Anju Mary Ealias
Assistant Professor
Department of Civil Engineering
SCMS school of Engineering & Technology



3/5/23

Head of the Department
Dr.Nisha.L
Associate Professor and Head
of the Department
Department of Civil Engineering
SCMS school of Engineering &
Technology



3/5/23

PG Coordinator
Nandita Mohan
Department of Civil Engineering
SCMS school of engineering and technology

**ROUTE OPTIMIZATION AND BIN LOCATION ANALYSIS FOR
MATTANCHERRY USING GIS**

PROJECT REPORT

submitted by

VISMAYA G KUMAR

Reg. No: SCM21CEEE14

to

the APJ Abdul Kalam Technological University

in partial fulfillment of the requirements for the award of the Degree

of

Master of Technology
In
Environmental Engineering



Department of Civil Engineering

SCMS School of Engineering & Technology, Vidya Nagar,

Karukutty, Kerala - 683 582

MAY 2023

**DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
KARUKUTTY**



CERTIFICATE

This is to certify that the project report entitled **“ROUTE OPTIMIZATION AND BIN LOCATION ANALYSIS FOR MATTANCHERRY USING GIS”** was submitted by **VISMAYA G KUMAR**, Reg No. **SCM21CEEE14**, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of Degree of Master of Technology in Civil Engineering (Environmental Engineering), is a bonafide record of the work carried out by her under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

[Signature]
4/5/23

Internal Guide

Ms. Lakshmi Priya

Assistant Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, Karukutty

[Signature]
4/5/23

Head of the Department

Dr. Nisha L

Head of the Department and

Associate Professor

SCMS School of Engineering

& Technology, Karukutty

PG Coordinator

Ms. Roshini K R

[Signature]
4/5/2023

Assistant Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, karukutty



STUDY ON FEASIBILITY OF DOUBLE CHAMBERED MICROBIAL FUEL CELL FOR THE TREATMENT OF TEXTILE WASTE WATER

A PROJECT REPORT

Submitted by

RITHU ULLAS
Reg. No: **SCM21CEEE10**

to

the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the Degree

of

Master of Technology
In
Environmental Engineering



Department of Civil Engineering

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
KARUKUTTY



CERTIFICATE

This is to certify that the project report entitled "STUDY ON FEASIBILITY OF DOUBLE CHAMBERED MICROBIAL FUEL CELL FOR THE TREATMENT OF TEXTILE WASTE WATER" was submitted by RITHU ULLAS, Reg No. SCM21CEEE10, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of Degree of Master of Technology in Civil Engineering (Environmental Engineering), is a bonafide record of the work carried out by her under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal Guide

Dr. Sanju Sreedharan

Associate Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, Karukutty

PG Coordinator

Ms. Roshini K R

Assistant Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, karukutty

Head of the Department

Dr. Nisha L.

Head of the Department and

Associate Professor

SCMS School of Engineering

& Technology, Karukutty



MODELLING OF GROUND WATER FLUCTUATIONS IN CHITTUR

A PROJECT REPORT

Submitted by

SHAHANA YOUNUS

Reg. No: SCM21CEEE12

to

the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the Degree

of

Master of Technology
In
Environmental Engineering



Department of Civil Engineering

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
KARUKUTTY



CERTIFICATE

This is to certify that the project report entitled “**MODELLING OF GROUND WATER FLUCTUATIONS IN CHITTUR**” was submitted by **SHAHANA YOUNUS**, Reg No. **SCM21CEEE12**, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of Degree of Master of Technology in Civil Engineering (Environmental Engineering), is a bonafide record of the work carried out by her under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal Guide

Dr. Praseeja A V
Assistant Professor
Department of Civil Engg.
SCMS School of Engineering
& Technology, Karukutty

Head of the Department

Dr. Nisha L
Head of the Department and
Associate Professor
SCMS School of Engineering
& Technology, Karukutty

PG Coordinator

Ms. Roshini K R
Assistant Professor
Department of Civil Engg.
SCMS School of Engineering
& Technology, karukutty



OPTIMIZATION OF TIME-INTEGRATED SEDIMENT SAMPLER AND SEDIMENT CHARACTERIZATION

A PROJECT REPORT

submitted by

ADWAITH B

SCM21CEEE01

to

the APJ Abdul Kalam Technological University

in partial fulfillment of the requirements for the award of the Degree

of

Master of Technology

in

Environmental Engineering



Department of Civil Engineering

SCMS School of Engineering and Technology

Karukutty, Ernakulam - 683576

May, 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
KARUKUTTY



CERTIFICATE

This is to certify that the project report entitled “**OPTIMIZATION OF TIME-INTEGRATED SEDIMENT SAMPLER AND SEDIMENT CHARACTERIZATION**” was submitted by **ADWAITH B**, Reg No. **SCM21CEEE01**, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of Degree of Master of Technology in Civil Engineering (Environmental Engineering), is a bonafide record of the work carried out by him under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal Guide



10/5/23

Dr. Ratish Menon

Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, Karukutty

Head of the Department

Dr. Nisha L

Head of the Department and

Associate Professor

SCMS School of Engineering

& Technology, Karukutty

PG Coordinator

Ms. Roshini K R



4/5/2023

Assistant Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, karukutty



SAMPLING AND CHARACTERISATION OF MICROPLASTICS IN AIR IN AN URBAN AREA

A PROJECT REPORT

Submitted by

DIYA FAIZEL S

Reg. No: SCM21CEEE06

to

the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for the award of the Degree

of

Master of Technology
In
Environmental Engineering



Department of Civil Engineering

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
Vidya Nagar, Karukutty, Kerala - 683 576

MAY 2023

DEPARTMENT OF CIVIL ENGINEERING
SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
KARUKUTTY



CERTIFICATE

This is to certify that the project report entitled “**SAMPLING AND CHARACTERISATION OF MICROPLASTICS IN AIR IN AN URBAN AREA**” was submitted by **DIYA FAIZEL S**, Reg No. **SCM21CEEE06**, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of Degree of Master of Technology in Civil Engineering (Environmental Engineering), is a bonafide record of the work carried out by her under my guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal Guide

[Signature]
10/5/23

Dr. Ratish Menon

Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, Karukutty

Nle
4/5/23
Head of the Department

Dr. Nisha L

Head of the Department and

Associate Professor

SCMS School of Engineering

& Technology, Karukutty

PG Coordinator

Ms. Roshini K R

[Signature]
4/5/2023

Assistant Professor

Department of Civil Engg.

SCMS School of Engineering

& Technology, karukutty

