

Vidya Nagar, Palissery, Karukutty, Kerala 683576

CRITERIA 1

CURRICULAR ASPECTS

1.3: Curriculum Enrichment



Vidya Nagar, Palissery, Karukutty, Kerala 683576

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



Vidya Nagar, Palissery, Karukutty, Kerala 683576

PROJECT WORK M.TECH



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	
1	MTE/826/21	Adwaith B	Optimization Of Time-	
			Integrated Sediment Sampler	
			And Sediment Characterization	
2	MTE/807/21	Agnas Devassy	Vertical Flow Reed Bed System	
3	MTE/825/21	Ann Marria Assissi	Threat Assessment in Water	
	11112/020/21		Distribution Networks	
4	MTE/800/21	Arathi Sreekumar	Mitigation And Analysis of	
			Scaling in Irrigation Pipelines at	
) (TTE /0.2.2./2.1		Chittur	
5	MTE/822/21	Devika J	Climate Change Modelling	
6	MTE/797/21	Diya Faizel S	Sampling And Characterization	
6			of Airborne Microplastics in An	
			Urban Area	
_	MTE/812/21	Gopika Krishnan	Modelling Of Sea Water	
7			Intrusion in Selected Coastal	
			Areas of Alappuzha District	
	MTE/801/21	Keerthu Anil	Phytoremediation Of Heavy	
8			Metals In Kadambrayar River	
			By Water Hyacinth	
	MTE/817/21	Nitu Haridas	Sediment Transport Modelling	
9			In Watershed Of Kadambrayar	
			River Using Hec-Hms And Hec-	
			Ras	
	MTE/816/21	Rithu Ullas	Study On Feasibility Of Double	
10			Chambered Mfc For The	
10			Treatment Of Textile Waste	
			Water	
11	MTE/818/21	Rose Mary Jojo	Modeling Of Ground Water	
12	MTE/806/21	Shahana Younus	Modeling Of Ground Water	
12			Fluctuations In Chittur	
13	MTE/813/21	Sona B K	Flood-Induced Changes In Soil	
			Properties And The Mobility Of	
			Potentially Toxic Elements	
			(Ptes) In Soils.	
14	MTE/798/21	Vismaya G Kumar	Analysis Of Waste Bins	
			Location & Route Optimization	
			Using Matlab	
15	MTE/7/22/20EE	Ashitha K S	Air Pollution Modelling	
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SCMS SCHOOL OF ENGINEERING & TECHNOLOGY VIDYANAGAR, PALLISSERY, KARUKUTTY ERNAKULAM, KERALA-683 576

RUKUT



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
1	MTC/821/21	Abhijith T S	Seismic behavior of welded connection with replacable damage control fuses
2	MTC/811/21	Althaf Ahammed D H	Seismic performance of RC frames after fire exposure
3	MTC/823/21	Anisha Peter Kp	Numerical simulation of fire resistance for hybrid GFRP sandwich panel with different core configuration
4	MTC/796/21	Divya Sahadevan	FEA of different configurations of beam-column junction of a tubular GFRP by bond sleeve connection
5	MTC/809/21	Irin Sabu	Performance of crumb rubber in concrete
6	MTC/810/21	Jerome Joy	Bridge deterioration prediction using machine learning techniques
7	MTC/824/21	Jineesha George	concrete technology using plastic fibers
8	MTC/815/21	Keerthi K Menon	Prediction of compressive strength of concrete using machine learning algorithms
9	MTC/808/21	Lakshmipriya M P	Topology Optimization of Bridge Girder
10	MTC/802/21	Nivya Mary	Optimisation and strengthening of Plastic Hinge
11	MTC/820/21	Saaya Leons	FEA investigation on fillet welds to hollow structural sections
12	MTC/804/21	Sithara K	numerical analysis of an auxetic honey comb core sandwich panel subjected to explosion
13	MTC/799/21	Sneha J Raj	Finite Element Investigation on performance of Circular Hyperboloid Base Isolation System with SMA
14	MTC/819/21	Sniya Leons	comparative assessment of batter pile and under-reamed pile under dynamic loads
15	MTC/803/21	Timna P Martin	Exploring the application of Adaptive structure which adapts through large shape changes



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Vidya Nagar, Palissery, Karukutty, Kerala 683576

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

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.

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

12 E 13/23

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

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.

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

PG Coordinate

Nandita Mohan 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

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

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



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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

12 E 13/23

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

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.

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

PG Coordinate

Nandita Mohan 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

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

Commuter to a Security al Engineering

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

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.

Internal supervisor Mr. Jerry Anto Assistant Professor 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

No1123

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

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

2/123

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

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 Abded Kaleso 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 Tennu Syriac Assistant Professor 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

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

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

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Head of the Department Dr. Nisha L, Associate Prof. and Head 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

Project Report -2023

Effect of nanofiller on strength of high strength steel joints bonded with acrylic adhesives by using solid – state welding

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

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

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

PROJECT REPORT ON

ANALYTICAL STUDY AND OPTIMISATION OF PLASTIC HINGE LENGTH

submitted by

NIVYA MARY KATTISSERY

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 Added Structural Engineering



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

May 2023

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. Tennu Syriac 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

Vite

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



Department of Civil Engineering

SCMS School of Engineering & Technology

Vidya Nagar, Karukutty, Kerala - 683 576

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.

Internal Supervisor Ms. Geethu R Babu Assistant Professor 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

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

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.

26 23

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

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

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.

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

PG Coordinator Nandita Mohan Assistant Professor Department of Civil Engineering SCMS school of Engineering & Jechnology NAT ANY ANY CANANA NAT ANY CANANA NAT ANY CANANA NAT ANY CANANA

15/22

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

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

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

PG Coordinator' Nandita Mohan 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

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

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.

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

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

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

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



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.

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

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

113/5/23-

Dr. Nisha L Head of Department and Associate Professor 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

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.

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

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

2/5/23

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

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



CERTIFICATE

This is to certify that the project report entitled "ROUTE OPTIMIZATION AND BIN LOCATION ANAYSIS 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.

Kater 1/23 Internal Guide

Ms. Lakshmi Priya 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 Julis 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

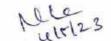
SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY Vidya Nagar, Karukutty, Kerala - 683 576



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



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

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



CERTIFICATE

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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



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.

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PG Coordinator Ms. Roshini K R G 45 2823 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



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

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