



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:06-12-2020

Department	CIVIL ENGINEERING	Application No.	202020053
Area of Research	GEPOLYMER	Research Mode	FULL TIME

Name :MARUTHAMUTHU P
Date of Birth / Age :10-05-1997 / 23 Years
Gender :MALE
Category :BC
e-Mail ID :maruthupandi3855@gmail.com
Mobile :9585373701



Father's/Husband's Name	PANDI P	Father's/Husband's Occupation	FARMER
Family Income	72000	Residential Type	RURAL
Birth Place	DINDIGUL	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	SINGLE
Aadhaar No.	843714333180	PAN No.	DZTPP5109L
Physically Challenged	NO	Type of Disability	-
Address for Communication: 4/73, WEST STREET, ELLAPPATTY CHETIYAPATTY (POST), A.VELLODU DINDIGUL DINDIGUL DISTRICT TAMILNADU INDIA Pin-624302		Permenant Address: 4/73, WEST STREET, ELLAPPATTY CHETIYAPATTY (POST), A.VELLODU DINDIGUL DINDIGUL DISTRICT TAMILNADU INDIA Pin-624302	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
MASTER OF ENGINEERING	STRUCTURAL ENGINEERING	ANNA UNIVERSITY	2020	9.13	FIRST CLASS WITH DISTINCTION	REGULAR
BACHELOR OF ENGINEERING	CIVIL ENGINEERING	ANNA UNIVERSITY	2018	7.49	FIRST CLASS	REGULAR
HSC	MATHS-BIO	STATE BOARD	2014	86.75	FIRST CLASS	REGULAR
SSLC	GENERAL	STATE BOARD	2012	76.67	FIRST CLASS	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020053_201209092546	VHD49541202250	09-12-2020	600	SUCCESS

MARUTHAMUTHU P

STRUCTURAL ENGINEER

4/73 , West Street , Ellapatty,
Chettiyapatty(P.O), A. Vellodu,
Dindigul , TN, 624307

919585373701

maruthupandi3855@gmail.com



Able to work in a suitable platform to exhibit my skills and gain knowledge in a productive environment and contribute to the academic growth of the students as well as institution.



Education

2018-09 - 2020-05

Master of Engineering: Structural Engineering

Sri Krishna College Of Technology - Coimbatore

- Elected Class Representative
- Thesis : Characterisation and Finite Element Analysis of Self-Compacting Concrete Using Industrial Wastes And Hybrid Fibres (Phase-2)
- Thesis : Experimental Investigation and Microstructure Studies on Self-Compacting Concrete Using Industrial Wastes And Hybrid Fibres (Phase-1)
- Graduated with 9.18 CGPA
- Graduated with Third Rank in 3rd Semester
- Received OBC Welfare Scholarship for the entire period of Study
- Did a SNAG report for new Hostel Blocks at Sri Krishna College of Technol

2014-08 - 2018-04

Bachelor of Engineering: Civil Engineering

Vel Tech Multi Tech Engineering College - Chennai

- Graduated with 7.49 CGPA
- Received OBC Welfare Scholarship for the entire period of Study
- Thesis: Factors Affecting Onsite Labour Productivity in Residential Construction : To give suggestions to improve labour productivity in residential construction sites by using spearman correlation technique.
- Thesis: Design and comparative analysis of flexible and rigid pavements : To design and comparative cost analysis of flexible and rigid pavements based on IRC standards.

2013-04 - 2014-03

High School Diploma

Government Higher Secondary School - Chettiyapatty

- 86.75%

2019-12 - 2019-12



Work History



Internship Student

MADURAA CONSULTANTS, Salem, Tamil Nadu

Designed an Executive Bungalow using E- TABS and SAFE Software

2017-10 - 2017-10



Internship Student

Chennai Metro Rail Limited, Chennai, Tamil Nadu



ACCOMPLISHMENTS



- Secured Third Rank in the academic year 2019-2020- M.E Structural Engineering.
- Secured prizes for Essay & Poetry writings (TAMIL) at school level
- Awarded merit certificates & prizes for topper at school level



Software



AutoCAD



Revit Architecture



Staad Pro



E-TABS



Primavera



MS Project



3DS- Max



Certifications



NPTEL : Modern Construction Materials



NPTEL : Earthquake Geology



NPTEL: Sustainable Materials and Green Buildings



Co Curricular Activities



- Attended a workshop on “Total Station and Advanced Surveying” conducted by Dr.N.G.P. Institute of Technology, Coimbatore.
- Attended a workshop on “Modeling and Analysis of RCC & Steel structures for research practice using ANSYS” conducted by SNS college of Technology,Coimbatore.
- Participated awareness campaign of Accident free Nation, “Golden Hour And Good Samaritan Law” conducted by thozhan organisation.



Online LEARNING during COVID-19

- Attended a open online indo-south african workshop on “Use of Recycled Aggregates in concrete” conducted by IITM & university of the witwatersand.
- Participated Various Quiz programme on “MyGovt” conducted by MHRD.
- Participated webinar on “ Kanavu Meipada” conducted by innovative services.
- Participated Webinar on “Dream Your Destiny” conducted by Tagore engineering college,chennai.
- Participated in the NPTEL E-awareness workshop conducted along with Vedavyasa institute of technology.
- Attended a online workshop on “Recent Advances in Science and Technology of Concrete” conducted by Indian Institute of Technology, Madras.
- Attended a online workshop on “Resilience of Concrete construction” conducted by Indian Institute of Technology, Madras.
- Participated in the Webinar on “Reinforcement Detailing for Durable Performance of Concrete” conducted by SRM Institute of Science and Technology,Chennai.
- Participated in the Webinar on “Flooring and Coating in construction” conducted by SSN College of Engineering,Chennai.
- Attended various conferences ‘KANAVU MEIPADA’. By INNOVATIVE SERVICES.
- Attended a workshop on MS EXCEL by INNOVATIVE Services.
- Attended a workshop on Health & Well Being.



PAPER PRESENTATIONS

- Presented a paper on “Experimental investigation and microstructure studies on SCC using industrial waste and hybrid fibres” in National Web Conference on Innovations in Concrete and Construction 2020.
- Presented a paper on “Study on Composite Columns With Recycled Concrete Aggregate” in International Conference on Emerging Trends in Engineering and Management 2020.
- Presented a paper on “A Study on chemical attack on Self Compacting Concrete” in National Conference NCTICM 2015.
- Presented a paper on “Steel Fiber based Concrete with adding Fly ash ” in National Conference NCMDMS 2017.



Journals

“Experimental Investigation on Rock Filled Self-Compacting Concrete ”,
International Journal of Engineering Research & Technology (IJERT),
ISSN:2278- 0181, Issue 6, volume 9, June- 2020.



Industrial Visits

- Kilpauk Water Treatment Plant, Chennai – 2015.
- Sathanoor Reservoir, Thiruvanamalai – 2016.
- Ranipet Effluent Treatment Plant, Ranipet – 2017.
- Manali Tamilnadu Police Housing Board – 2017



Personal Information

- Name : Maruthamuthu .P
- Date of Birth : 10-5-1997
- Languages Known : Tamil, English
- Hobbies : Reading Tamil Novels , Writing Tamil Poetry

Declaration

I hereby declare that all details mentioned above are true to the best of my knowledge.

Date :

Place : Dindigul

P.MARUTHAMUTHU

Anna University



Reg.No. 113114103024/RG

The Syndicate of the Anna University hereby makes known that
MARUTHAMUTHU P has been admitted to the **DEGREE OF BACHELOR OF ENGINEERING** in **CIVIL ENGINEERING** under the *Faculty of Civil Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same, and has been placed in **FIRST CLASS** at the Examination held in **APRIL 2018** .

Given under the Seal of the University



Chennai 600 025
India
December 2018

Controller of Examinations

Registrar

Vice-Chancellor



ANNA UNIVERSITY

CHENNAI - 600 025

PROVISIONAL CERTIFICATE

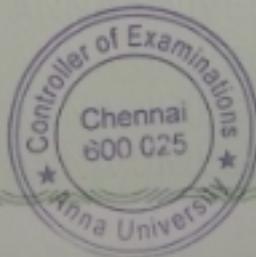
Folio No. :1500896

This is to certify that the undermentioned candidate has qualified for the award of Degree through:

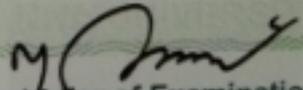
SRI KRISHNA COLLEGE OF TECHNOLOGY, COIMBATORE

an autonomous college affiliated to Anna University as detailed below :

Name : MARUTHAMUTHU P
Register No. : 18TPCV016
Degree : M.E.
Branch/
Specialization : STRUCTURAL ENGINEERING
Month & Year of
Passing : APRIL 2020
Classification : FIRST CLASS WITH DISTINCTION



Chennai - 600 025.
Date : 23 SEP 2020


Controller of Examinations

1/c



ANNA UNIVERSITY, CHENNAI - 600 025

B.E. DEGREE EXAMINATIONS CONSOLIDATED STATEMENT OF GRADES

Folio No. **AUS1101449**
M112210100216P



NAME OF THE CANDIDATE		MARUTHAMUTHU P				REGISTER NO.	113114103024				REGULATIONS	2013			
COLLEGE OF STUDY		VEL TECH MULTI TECH DR.RANGARAJAN DRSAKUNTHALA ENGINEERING COLLEGE				GENDER	MALE				DATE OF BIRTH	10-MAY-97			
PROGRAMME & BRANCH		B.E. Civil Engineering				MONTH & YEAR OF LAST APPEARANCE	April 2018				MEDIUM OF INSTRUCTION	English			
SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING	SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING		
01	CY6151	Engineering Chemistry - I	3	D	6	NOV 2014	05	CE6505	Design of Reinforced Concrete Elements	3	E	5	NOV 2016		
01	GE6151	Computer Programming	3	E	5	NOV 2014	05	CE6506	Construction Techniques, Equipment and Practice	3	C	7	NOV 2016		
01	GE6152	Engineering Graphics	4	C	7	NOV 2014	05	CE6511	Soil Mechanics Laboratory	2	S	10	NOV 2016		
01	HS6151	Technical English - I	4	B	8	NOV 2014	05	GE6674	Communication and Soft Skills - Laboratory Based	2	A	9	NOV 2016		
01	MA6151	Mathematics - I	4	C	7	NOV 2014	05	CE6512	Survey Camp	1	S	10	NOV 2016		
01	PH6151	Engineering Physics - I	3	E	5	NOV 2014	06	CE6601	Design of Reinforced Concrete & Brick Masonry Structures	3	E	5	APR 2017		
01	GE6161	Computer Practices Laboratory	2	A	9	NOV 2014	06	CE6602	Structural Analysis II	4	A	9	APR 2017		
01	GE6162	Engineering Practices Laboratory	2	S	10	NOV 2014	06	CE6603	Design of Steel Structures	4	C	7	APR 2017		
01	GE6163	Physics and Chemistry Laboratory - I	1	S	10	NOV 2014	06	CE6604	Railways, Airports and Harbour Engineering	3	C	7	APR 2017		
02	CY6251	Engineering Chemistry - II	3	D	6	APR 2015	06	CE6605	Environmental Engineering II	3	E	5	APR 2017		
02	GE6252	Basic Electrical and Electronics Engineering	4	D	6	APR 2015	06	CE6605	Construction Planning and Scheduling	3	D	6	APR 2017		
02	GE6253	Engineering Mechanics	4	E	5	APR 2015	06	CE6611	Environmental Engineering Laboratory	2	S	10	APR 2017		
02	HS6251	Technical English - II	4	B	8	APR 2015	06	CE6612	Concrete and Highway Engineering Laboratory	2	S	10	APR 2017		
02	MA6251	Mathematics - II	4	C	7	APR 2015	07	CE6701	Structural Dynamics and Earthquake Engineering	3	B	8	NOV 2017		
02	PH6251	Engineering Physics - II	3	B	8	APR 2015	07	CE6702	Prestress Concrete Structures	3	E	5	NOV 2017		
02	GE6261	Computer Aided Drafting and Modeling Laboratory	2	A	9	APR 2015	07	CE6703	Water Resources and Irrigation Engineering	3	B	8	APR 2018		
02	GE6262	Physics and Chemistry Laboratory - II	1	S	10	APR 2015	07	CE6704	Estimation and Quantity Surveying	3	E	5	NOV 2017		
03	CE6301	Engineering Geology	3	C	7	NOV 2015	07	CE6007	Housing Planning and Management	3	C	7	NOV 2017		
03	CE6302	Mechanics of Solids	4	E	5	NOV 2015	07	CE6011	Air Pollution Management	3	C	7	NOV 2017		
03	CE6303	Mechanics of Fluids	3	A	9	NOV 2015	07	CE6711	Computer Aided Design and Drafting Laboratory	2	S	10	NOV 2017		
03	CE6304	Surveying I	3	C	7	NOV 2015	07	CE6712	Design Project	2	S	10	NOV 2017		
03	GE6351	Environmental Science and Engineering	3	B	8	NOV 2015	08	MG6851	Principles of Management	3	B	8	APR 2018		
03	MA6351	Transforms and Partial Differential Equations	4	E	5	NOV 2015	08	CE6016	Prefabricated Structures	3	C	7	APR 2018		
03	CE6311	Survey Practical I	2	S	10	NOV 2015	08	CE6021	Repair and Rehabilitation of Structures	3	B	8	APR 2018		
03	CE6312	Computer Aided Building Drawing	2	S	10	NOV 2015	08	CE6811	Project Work	6	S	10	APR 2018		
04	CE6401	Construction Materials	3	C	7	APR 2016									
04	CE6402	Strength of Materials	4	C	7	APR 2016									
04	CE6403	Applied Hydraulic Engineering	4	B	8	APR 2016									
04	CE6404	Surveying II	3	B	8	APR 2016									
04	CE6405	Soil Mechanics	3	B	8	APR 2016									
04	MA6459	Numerical Methods	4	S	10	APR 2016									
04	CE6411	Strength of Materials Laboratory	2	S	10	APR 2016									
04	CE6412	Hydraulic Engineering Laboratory	2	S	10	APR 2016									
04	CE6413	Survey Practical II	2	S	10	APR 2016									
05	CE6501	Structural Analysis I	4	C	7	NOV 2016									
05	CE6502	Foundation Engineering	3	B	8	NOV 2016									
05	CE6503	Environmental Engineering I	3	C	7	NOV 2016									
05	CE6504	Highway Engineering	3	C	7	NOV 2016									

*** End of Statement ***
Cumulative Grade Point Average : 7.49
Classification : FIRST CLASS



SEM - Semester, C- Credits, LG - Letter Grade, GP - Grade Point							
Range of Marks	91 - 100	81 - 90	71 - 80	61 - 70	57 - 60	50 - 56	< 50
Letter Grade	S	A	B	C	D	E	U
Grade Point	10	9	8	7	6	5	0

$$CGPA = \frac{\sum C_i GP_i}{\sum C_i}$$

where C_i is the credits assigned to the course
 GP_i is the point corresponding to the grade obtained for each course
 n is number of all courses successfully cleared during all the semesters



SIGNATURE OF THE STUDENT

M. Arumugam
CONTROLLER OF EXAMINATIONS i/c

Chennai - 600 025
Date: 31/08/2018



SRI KRISHNA COLLEGE OF TECHNOLOGY

(Approved by AICTE and Accredited by NAAC with "A" Grade)
(An Autonomous Institution, Affiliated to Anna University, Chennai)
KOVAIPUDUR, COIMBATORE - 641 042, INDIA.



M.E - DEGREE EXAMINATIONS

CONSOLIDATED STATEMENT OF GRADES CHOICE BASED CREDIT SYSTEM (CBCS)

Sl. No.: TLPR 000131

NAME OF THE CANDIDATE	MARUTHAMUTHU P.	MONTH & YEAR OF LAST APPEARANCE	APR-2020
REGISTER NUMBER	18TPCV016	DATE OF BIRTH	10/05/1997
PROGRAMME & BRANCH	M.E. STRUCTURAL ENGINEERING	GENDER	MALE
		REGULATIONS	2018

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	MONTH & YEAR OF PASSING
I	18PMA101	APPLIED MATHEMATICS	3	A+	9	NOV-2018
I	18PSE301	STRUCTURAL DYNAMICS	3	A+	9	NOV-2018
I	18PSE302	CONCRETE STRUCTURES	3	A+	9	NOV-2018
I	18PSE401	PROFESSIONAL ELECTIVE: FOUNDATION STRUCTURES	3	A	8	NOV-2018
I	18PSE403	PROFESSIONAL ELECTIVE: ADVANCED CONCRETE TECHNOLOGY	3	A	8	NOV-2018
I	18PSE411	PROFESSIONAL ELECTIVE: MAINTENANCE AND REHABILITATION OF STRUCTURES	3	A	8	NOV-2018
I	18PSE303	STRUCTURAL ENGINEERING LABORATORY	1	A+	9	NOV-2018
I	18PAD001	AUDIT COURSE: ENGLISH FOR RESEARCH PAPER WRITING		COMPLETED		
II	18PSE304	STRUCTURAL STEEL DESIGN	3	A+	9	APR-2019
II	18PSE305	THEORY OF ELASTICITY AND PLASTICITY	3	A+	9	APR-2019
II	18PSE306	ADVANCED STRUCTURAL ANALYSIS	3	A+	9	APR-2019
II	18PSE402	PROFESSIONAL ELECTIVE: SEISMIC DESIGN OF STRUCTURES	3	A+	9	APR-2019
II	18PSE407	PROFESSIONAL ELECTIVE: DESIGN OF STEEL CONCRETE COMPOSITE STRUCTURES	3	A+	9	APR-2019
II	18PSE415	PROFESSIONAL ELECTIVE: EXPERIMENTAL METHODS AND MODEL ANALYSIS	3	A+	9	APR-2019
II	18PSE307	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN LABORATORY	1	O	10	APR-2019
III	18PSE404	PROFESSIONAL ELECTIVE: DESIGN OF BRIDGES	3	A+	9	NOV-2019
III	18PSE414	PROFESSIONAL ELECTIVE: PRESTRESSED CONCRETE	3	A+	9	NOV-2019
III	18PSE421	PROFESSIONAL ELECTIVE: OFFSHORE STRUCTURES	3	A+	9	NOV-2019
III	18POE502	OPEN ELECTIVE: INDUSTRIAL SAFETY	3	A	8	NOV-2019
III	18PSE601	PROJECT WORK - PHASE I	5	O	10	NOV-2019
IV	18PSE602	PROJECT WORK - PHASE II	12	O	10	APR-2020
IV	18PSE503	IMPLANT TRAINING	3	O	10	APR-2020

- END OF STATEMENT -

TOTAL CREDITS EXPIRED : 70	CUMULATIVE GRADE POINT AVERAGE (CGPA) : 9.13	CLASSIFICATION : FIRST CLASS WITH DISTINCTION	MEDIUM OF INSTRUCTION : ENGLISH
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THIS DOCUMENT IS ISSUED WITHOUT ANY CORRECTIONS

COIMBATORE - 641 042

DATE: 08-07-2020



[Signature]
CONTROLLER OF EXAMINATIONS



SRI KRISHNA COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

KOVAIPUDUR (P.O), COIMBATORE - 641 042.

TRANSFER CERTIFICATE



Admission No. : **16**

TC No. 12253

- | | | |
|--|---|---|
| 1. Name of the Student | : | MARUTHAMUTHU P |
| 2. Nationality, Religion | : | INDIAN HINDU |
| 3. Whether the Candidate belongs to BC / MBC / or SC / ST or others | : | BC |
| 4. Caste | : | SOZHIA VELLALAR |
| 5. Name of the Parent / Guardian | : | PANDI P |
| 6. Date of Birth (in Words) | : | 10/05/1997
(TEN MAY NINETEEN NINETY-SEVEN) |
| 7. Class in which the student was studying at the time of leaving (in words) | : | FINAL Year M.E.STRUCTURAL ENGINEERING |
| 8. Date of Admission | : | 07/09/2018 |
| 9. Whether qualified for promotion to higher Class | : | Refer to the marksheets
Reg No. 18TPCV016 |
| 10. Whether the student has paid all the fees due to the college | : | YES |
| 11. Date on which the student actually left the college | : | 16/05/2020 |
| 12. Whether participated in and punished for "Ragging" | : | NO |
| 13. Date on which application for transfer Certificate was made | : | 16/05/2020 |
| 14. Reason for Leaving | : | Course Completed |
| 15. General Conduct | : | Excellent |
| 16. Date of issue of Transfer Certificate | : | 16/05/2020 |

Office Seal

Date :



[Signature]
PRINCIPAL



SRI KRISHNA COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

KOVAIPUDUR (P.O), COIMBATORE - 641 042.

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Admission No. : **16**

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| 1. Name of the Student | : | MARUTHAMUTHU P |
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| 15. General Conduct | : | Excellent |
| 16. Date of issue of Transfer Certificate | : | 16/05/2020 |

Office Seal

Date :



[Signature]
PRINCIPAL

Sugarcane Bagasse Ash Based Geopolymer

Concrete is frequently used composite material, next to the water demand which is increased in day by day. Concrete is essentially consist of binding medium such cement paste (cement+ water) embedded with aggregates usually mixture of fine and coarse aggregates. Due to high demand on concrete the cement manufacturing process will goes up. Because of the cement manufacturing process CO₂ emission and emboided energy is tremendously increases. CO₂ emission leads to a lot of non eco friendly issues. In order to reduce the CO₂ emission and emboided energy consumption we can go for Geopolymer concrete system by using some secondary cementitious materials (SCM's) such as Fly ash, GGBFS, Metakaolin etc. Mostly geopolymer system consists of Fly ash and GGBFS. Instead of Fly ash based we can go for sugarcane bagasse ash based geopolymer system because of silica content present in Fly ash and Bagasse ash are more or less equal. While using sugarcane bagasse ash we can eliminate delayed setting (less early age strength gain) of fly ash based geopolymer concrete due to recession of alkali activated Calcium silicate (Ca-Si) chain formation. Finally we can optimize the utilization of sugarcane bagasse ash in Geopolymer concrete system. Also will conducting Characterization and durability studies on sugarcane bagasse ash based geopolymer concrete system.