

## STAFF SELF APPRAISAL REPORT

2021-2022

KSIT

Field	Data	SCORE
Name	Dr AREKAL VIJAY	
Present Address, Mob.No., e-mail id.	115, 4 <sup>th</sup> Main, 3 <sup>rd</sup> Cross, JHBCS Layout, Gubbalala, Bengaluru 560061	---
Age and Date of Birth	54 yrs, 23/3/1968	
Qualification	BE, MTech, PhD	
Designation and Department	Professor, Civil Engineering	
Teaching Experience (After PG)	13 yrs	
Other Experience(If any)	13 yrs in Consultancy	
List of Subjects Taught till date (use separate sheet if necessary)	List attached	
Number of FDPs attended since joining service (Attach Separate List)	List attached	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory &Practicals) (10marks for each x Percentage) If Online please indicate.	1. Basic Geotechnical Engineering (76%) 2. Design Concepts of Substructures (75%) 3. Applied Geotechnical Engineering * 4. Advanced Concrete Technology*  *Results yet to be declared	15*/40
Details of UG Projects Guided (5 marks/ project guided)Provide Titles (HOD to endorse)	1. Design of Pile foundation for High Rise Structures and Numerical Validation 2. Slope stability analysis of Madikeri district and mitigation of landslides	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)		/10
Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. Basic Geotechnical Engineering – 100% 2. Design Concepts of Substructures -100% 3. Applied Geotechnical Engineering – 100% 4. Advanced Concrete Technology- 100%	5/5
Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify.	18CV54 – 88.57% 18CV62 – 97.64%	4.5/5

\*Marks to be awarded for subjects for which end exam was conducted


Details of students mentored during current assessment year. (Furnish details)	List Attached	--
Details of Participation in <u>VTU</u> Bodies (2 Marks) Furnish details and proofs.		/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams (Chairman, Squad) 3. Paper Setting (17CV743) 4. Evaluation (17CV743)	6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) "FDP on Sustainable Practices in Civil Engineering" conducted by UVCE, AICTE/ATAL, 14/6/21 to 18/6/21 2) "FDP on Outcome Based Education" conducted by by KSIT, 17 to 19/3/2022	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage and for every claim]  Ph.D. Completed – 10 marks.	PhD Awarded	10/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. Arekal Vijay, Vijayalakshmi Akella, P R Bhanu Murthy (2021) "Numerical Validation of Experimental Results for Bearing Capacity of Internal Inclined Skirted Footings on c-φ Soil" <i>Journal of Construction Management</i> , Vol. XXXVI, No II, ISSN 0970-3675, pp 5-12	5/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Resource recovery and reuse : waste to wealth" conducted by KSSEM from 17 to - 21/1/2022. 2. "Sustainable Designs" Conducted by Knowledge Solutions India, 10/7/2021	10/10
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide	Registered with VTU in 2021	-



(Reasons for not registering)	Regd ID: 012021RSCV000047	
Research Scholars registered with details	1) Deepak BC (1KG20PCV01) 2) Prashanth M (1KG20PCV02)	5/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.		/5
Academic Programs organized and supported during current year.(Only FDP/Workshop/Seminar / Conference) . Do not include Webinars.	1. Conducted inplant training program for Lateral entry students 2. Conducted DCET coaching	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	<a href="http://nptel.ac.in/courses/105105039/">http://nptel.ac.in/courses/105105039/</a> <a href="https://archive.nptel.ac.in/courses/105/101/105101216/">https://archive.nptel.ac.in/courses/105/101/105101216/</a> <a href="https://archive.nptel.ac.in/courses/105/101/105101160/">https://archive.nptel.ac.in/courses/105/101/105101160/</a>	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	"Studies on Slope Vulnerability Assessment and Landslide Mitigation for Kodagu District", Karnataka" VTU Research Grant Scheme 2021	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs.	/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) IAQC coordinator 2) Geotechnical Lab incharge 3) Student Mentor 4) Disciplinary committee coordinator	8/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)(2marks for first membership &3 marks for second membership)	1. Indian Institute of Engineers (A513685/8) 2. Indian Society for Technical Education (LM94770) 3. Indian Geotechnical Society (LM-1564)	5/5

Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Disciplinary Committee Coordinator for Aarohana	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Expo duty, Admission desk duty, telephone calls for prospective students	10/10
<b>TOTAL</b>		<b>123.5/190</b>

Date: 12/7/2022

  
Signature of faculty

**Comments from the HOD:**

Sincere, IQAC coordinator, taken initiatives in improving the quality in IA assessment advised to improve results of publications advised to write research proposals

  
Signature of the HOD 14/7/2022

**Comments of the Principal after the discussion:**

- (1) Being a Senior Professor in the Dept, more involvement in the activities are required.
- (2) IQAC to be strengthened effectively.

  
Signature of the Principal

CEO

## List of Subjects Taught till date

- 1) Basic Geotechnical Engineering
- 2) Applied Geotechnical Engineering
- 3) Ground Improvement Technique
- 4) Design Concepts of Substructure
- 5) Advanced Foundation Design
- 6) Design Concepts of Building Services
- 7) Earth Retaining Structures
- 8) Building Construction
- 9) Concrete Technology
- 10) Construction Management
- 11) Engineering Mechanics





**List of Faculty Development Program Attended**

	<b>FDP</b>	<b>Organisers</b>	<b>Date</b>	<b>Duration</b>
1	Open Source GIS Tools	Institute of Remote Sensing, Anna University, Chennai	13/10/2009	1 day
2	Computer Aided Transportation Planning and Traffic Engineering	IISc, Bangalore	7/12/2009 to 11/12/2009	5 days
3	Earthquake Resistant Design of Structures	Government of Karnataka & BMSCE, Bangalore	1/2/2010 to 5/2/200	5 days
4	Open Source Quantum GIS/GRASS Training Program	The Oxford College of Engineering & KCube Consultancy, Bangalore	6/12/2010 to 10/12/2010	5 days
5	Learning and Teaching Methodologies	KSSEM, Bangalore	20/7/2011 to 22/7/2011	3 days
6	Research Methodology	KSSEM, Bangalore	30/1/2014 (1 day)	1 day
7	Workshop on Intellectual Property Rights Significance for Academia	Visvesvaraya Trade Promotion Centre & KSSEM, Bangalore	31//2015	1 day
7	Finite Element Method for Engineers	RNSIT & CADD Centre, Bangalore	30/1/2017 to 1/2/2017	3 days
8	Annual convention "New Paradigms in Higher Education"	BITES & BMSCE, Bengaluru	23 to 24 /11/2018	2 days
9	New Approach to the Revised Assessment and Accreditation of NAAC	BITES & GAT, Bengaluru	4/1/2019	1 day
10	Recent Advances in Geotechnics for Infrastructure		14/5/2020 To 16/5/2020	3 days
11	Smart Solutions in Civil Engineering"	KSSEM, Bengaluru	20/7/2020 to 24/7/2020	5 days
12	Short Term Course on "Recent Advances in Geotechnical and Geoenvironmental Engineering"	IIT Guwhati	17/12/2020 to 23/12/2020	5 days
13	FDP on "Sustainable Practices in Civil Engineering"	AICTE-UVCE, Bangalore	14/6/2021 to 18/6/2021	5 days
14	FDP on "Sustainable Designs"	Knowledge Solutions India	10/7/2021	1 Day
15	FDP on "Sustainable Practices in Civil Engineering"	KSSEM, Bangalore	17/1/2022 to 21/1/2022	5 days
16	FDP on "Outcome Based Education"	KSIT, Bangalore	17/3/2022 to 19/3/2022	3 days

**Details of students mentored during current assessment year.**

- 1) Uzair Ifthekar**
- 2) Madhusudhan**
- 3) Sanjay S**
- 4) Ganesh S**
- 5) Mohammed Adnan Salik**
- 6) Rohith K S**
- 7) Sanjay M V**
- 8) Rahul K**
- 9) Rashmi K N**
- 10) Tejas S**
- 11) Bhargava M**
- 12) Mohammed Rizwan A**
- 13) Munirathnam B S**
- 14) Niranjan K**
- 15) Sukhveer K Acharya**

No: ATAL/2021/1622016952



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training And Learning (ATAL) Academy

#### Certificate

This is certified that AREKAL VIJAY, Professor of K S School of Engineering and Management participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Sustainable Practices in Civil Engineering" from 2021-6-14 to 2021-6-18 at Bangalore University.

Director ATAL Academies



Coordinator







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Kammavari Sangham(R)1952

# K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC  
#14, Raghuvanahalli, Kanakapura Main road, Bengaluru-560109

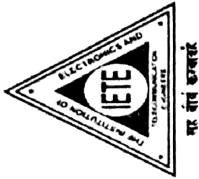
Tel : 28435723 Email : principal@ksit.edu.in Web : www.ksit.edu.in



3 DAYS FACULTY DEVELOPMENT PROGRAM

ON

“OUTCOME BASED EDUCATION”



## Certificate of Participation

This is to certify that Dr. AREKAL V. JAY....., K.S.SEM.....

has participated in the 3 Days Faculty Development Program on “Outcome Based Education”

at K.S. Institute of Technology Bengaluru from 17<sup>th</sup> - 19<sup>th</sup> March 2022.

  
**Dr. P. N. Sudha**  
Chief Coordinator NBA

Prof. & Head ECE Department



**Dr. Dilip Kumar K.**  
Principal & Director K.S.I.T.



**Dr. K. V. A. Balaji**  
CEO K. S. Group of Institutions



# Numerical Validation of Experimental Results for Bearing Capacity of Internal Inclined Skirted Footing on $c-\phi$ Soil

Arekal Vijay<sup>1</sup>, Vijayalakshmi Akella<sup>2</sup> and P. R. Bhanu Murthy<sup>1</sup>

**Abstract :** The Skirted foundations are adopted to replace pile foundations in offshore structures. The peripheral vertical skirts under conventional footing, confine the soil beneath the footing. The present study aims at the suitability of internal inclined skirts of on bearing capacity of footing on  $c-\phi$  soil for onshore condition and validation of experimental results by finite element method. The experimentation and the numerical analysis are carried out for different shapes of the footing by varying the skirt depth, skirt thickness and spacing between the internal inclined skirts. Results showed that increase in the depth and thickness of skirts increased the bearing capacity in both square footing and rectangular footing. It is concluded that the reduction in the internal inclined skirt spacing tend to increase the bearing capacity of  $c-\phi$  soil when compared to the higher spacing of internal inclined skirts.

**Keywords :** Skirted Footing, Bearing Capacity, Settlement, Confinement.

## INTRODUCTION

Foundation is the lower most part of the structure that directly interacts with the soil. The stresses developed in the soil due to transfer of forces and moments from the superstructure must be within the permissible limits to maintain the stability of the structure against overturning and sliding. The ability of the foundation to resist the stresses transferred from the superstructure without causing shear failure and excessive settlement is termed as bearing capacity. Soil bearing capacity depends on requirement of foundation stability. Shear strength and settlement are the two main parameters on which the bearing capacity of the soil depends. Foundations are classified as shallow and deep foundations depending on the relation between the depth of the foundation and its width. In recent decades, skirted foundations are being adopted to replace pile foundations in offshore structures. The foundation soil is confined by the peripheral vertical skirts under the footing. Due to the confinement of foundation soil, there is a tendency of increase in bearing capacity. The pile foundation is replaced with these bucket foundations or skirted foundations as they are economical compared to deep foundations. This research is carried out to study the feasibility of applying the skirted foundation for onshore structures.

In this work, in addition to vertical skirts, inclined skirts are also welded to the footing to study its effect. Experimental tests were conducted on bearing capacity of these skirted footings and results are validated numerically using Plaxis 2D software.

The past studies conducted by Eid, H (2013) and Sunil S. P et. al. (2013) showed that skirted foundations improve bearing capacity with the increase in the size of skirts. Also, the finite element analyses carried out by Divya S. K et al (2013) indicate that reduction in number of skirts reduced the bearing capacity. Laboratory tests conducted by M. El Sawwafet al (2005) showed the cells with small cell diameters exhibit deep foundation behaviour.

## MATERIALS AND METHODS

### Materials

#### $c-\phi$ Soil

A mixture of  $c-\phi$  soil was used for this experiment. It is made free from organic matters. The above sample was properly sieved by passing through 600  $\mu$  IS sieve after the soil is oven dried. The effect of moisture is not included as dry soil is used as soil medium for the test. The physical properties of soil used in the experimentation and numerical analysis are listed in the *Table 1*.

<sup>1</sup>Professor, Department of Civil Engineering, K S School of Engineering and Mangement, Bengaluru- India.

<sup>2</sup>Professor, Department of Civil Engineering, JNTU College of Engineering, Anantapur, India.

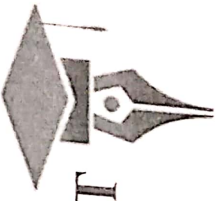
Email:arekalvijay@gmail.com



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# K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

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#15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Dr AREKAL VIJAY**

has attended the Faculty Development Programme

on

“Resource recovery and reuse : waste to wealth”  
from 17<sup>th</sup> -21<sup>st</sup> January of the year 2022.



*Head of the Department*



*Principal*





# CERTIFICATE

PROUDLY PRESENTED TO

*AREKAL VIJAY*

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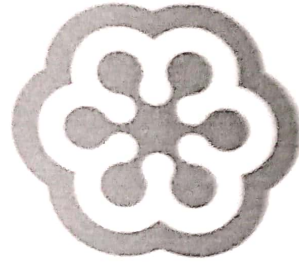
Sustainable Designs (For civil engineering and  
architecture)

Jul 10, 2021

Date of Completion

*Knowledge Solutions India*

Organizer



## STAFF SELF APPRAISAL REPORT

2021-2022

## KSSEM

Field	Data	SCORE
Name	Veerendra Kumar M	---
Present Address, Mob.No., e-mail id.	# 27, 3 <sup>rd</sup> Main, 1 <sup>st</sup> Cross, Sai Enclave, Behind Raghavendra Layout, Bannerghatta road, Bengaluru: 560076 Mobile: 9448848335 veerendrakumar@kssem.edu.in	
Age and Date of Birth	57 Years, 16-05-1965	
Qualification	M.E Structural Engineering	
Designation and Department	Associate Professor/ Civil Engineering Department	
Teaching Experience (After PG)	32 Years 4 months	
Other Experience(If any)	57 Years, 16-05-1965	
List of Subjects Taught till date (use separate sheet if necessary)	M.E Structural Engineering	--
Number of FDPs attended since joining service (Attach Separate List)	13	
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Analysis of indeterminate structures (18CV52)-Offline exam- 86% 2. Design of RCC and Steel Structures (18CV72)-Offline exam- 92% 3. Advanced design of R.C Structures (20CSE13)-Offline exam* 4. Conservation of Natural Resources (18CV656)-Exam to be conducted* 5. Design of Tall Structures (20CSE252)- Exam to be conductes* * = Results yet to come.  Score = $17.8/20 = 35.6/40$	35.6/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Utilization of waste plastic in bituminous pavement by dry blending. 2. Utilization of waste plastic in bituminous pavement by wet blending.	10/10

<p>Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)</p>	<p>1. "To obtain the wind pressure coefficients for tall structure having convex and concave curvature shape in the plan by computational fluid dynamics (CFD) approach"</p>	<p>5/10</p>
<p>Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.</p>	<p>1. 18CV52-(Off line + Online)-100%  2.18CV72-(Offline + Online)-100%  3.20CSE13-(Off line)-100%  4.18CV656-(Off line)-100%  5.20CSE252-(Off line) Still class under progress.</p>	<p>5/5</p>
<p>Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.</p>	<p>1. 18CV52- 97.55%  2. 18CV72- 96.12%  Score = <math>193.67/200 \times 5 = 4.84</math></p>	<p>4.84/5</p>

\*Marks to be awarded for subjects for which end exam was conducted

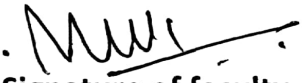


Details of students mentored during current assessment year. (Furnish details)		--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	BOE-Member-Civil, VTU	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) "Resource recovery and reuse: waste to wealth" FDP at KSSEM from 17 <sup>th</sup> to 21 <sup>st</sup> Jan 2022  2) "Outcome Based Education" FDP at KSIT from 17 <sup>th</sup> to 19 <sup>th</sup> March 2022.	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage and for every claim]  Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	5/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. Studies on Mix Design of Sustainable Geo-Polymer Concrete 2. DURABILITY STUDIES ON SUSTAINABLE GEOPOLYMER CONCRETE 3. "EFFECT OF SODIUM HYDROXIDE MOLARITY ON FRACTURE BEHAVIOUR OF GEOPOLYMER CONCRETE BEAMS"	→ 2015 10/10 → 2015 (2022)

Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	<ol style="list-style-type: none"> <li>1. "National education policy-2020" 2 day workshop at Gogte Institute of Technology, Belagavi from 19<sup>th</sup> and 20<sup>th</sup> November 2022.</li> <li>2. "Performance of climatic responsive buildings- A Qualitative and quantitative approach" 2 day National seminar at KSSEM from 10<sup>th</sup> and 11<sup>th</sup> June 2022.</li> </ol>	10/10
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes / No If 'Yes' furnish details.	-
Research Scholars registered with details	Yes / No If Yes, 5 marks	/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.		/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.		/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Utilized NPTEL material for teaching Design of RCC and Structures (18CV72)  <a href="https://nptel.ac.in/courses/105105162">https://nptel.ac.in/courses/105105162</a>	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	"Utilization of waste plastic in bituminous pavements with local aggregates by dry blending" Final year B-Tech project submitted to VTU Belagavi.	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs. 5000/=	5/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	<p style="text-align: center;">Aarohana</p> <p style="text-align: center;"><del>NOT APPLICABLE FOR CURRENT YEAR</del></p> <p style="text-align: center;">Disciplinary Committee</p>	


Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) Department coordinator for arranging and conducting extensive survey camp.	2/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	1. Member of ISTE. 2. Member of MIE.	5/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]		/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Presented guest lecture and hands on experience in concrete mix design as a part of INPLANT training	5/10
<b>TOTAL</b>		<b>132.44/190</b>

Date: 15-07-2022

  
Signature of faculty


**Comments from the HOD:**

Advised to complete PhD work. 2016 (re-registered)  
Sincere and Experienced faculty

  
Signature of the HOD

**Comments of the Principal after the discussion:**

Serious efforts are required to complete the PhD and work towards the submission of thesis.

  
Signature of the Principal

CEO



## EFFECT OF SODIUM HYDROXIDE MOLARITY ON FRACTURE BEHAVIOUR OF GEOPOLYMER CONCRETE BEAMS

Prashanth M<sup>1,3</sup>, Veerendra kumar M<sup>2,3</sup>, and Dr. B K Raghu Prasad<sup>3,3</sup>

<sup>1,2</sup> Department of Civil Engineering, KS School of Engineering and Management, Bangalore, Karnataka, India

<sup>3</sup> Retired professor, Dept. of Civil Engineering IISC, Bangalore, Karnataka (State), India

In this present study an effort was made to know the fracture behavior of Geopolymer concrete beams with different molarities of NaOH. The beams which were made of geopolymer concrete with notches were subjected to three-point bending test and load vs. deflection curves for all the members were obtained. From the obtained data fracture properties such as fracture energy, fracture toughness and nominal stress were determined. The tests showed increasing trend in fracture property such as fracture toughness, fracture energy and nominal stress in molarity range from 12M to 14M after which it showed a decreasing trend beyond 14M.

**Keywords:** Geopolymer; fracture behavior; three-point bending test.

### Introduction

In 1978, Joseph Davidovits developed a binder called geopolymer. Geopolymer is amorphous to semi-crystalline equivalent of certain zeolitic materials with excellent properties such as high fire and erosion resistances and high strength materials. There are two main constituents of geopolymer and they are namely source materials and the alkaline liquids. The source materials for geopolymer based on alumina-silicate should be rich in silicon (Si) and aluminum (Al) such as natural minerals like kaolinite, clays, etc. Alternatively, by-product materials such as fly ash, silica fume, rice-husk ash, slag, red mud, etc. can also be used as source materials. The choice of source materials for making geopolymer depends on the factors such as cost, availability, type of application and specific demand. The alkaline liquids used in the geopolymer are usually sodium or potassium based. The most common type of alkaline liquid used in the geopolymerisation is a combination of sodium hydroxide (NaOH) or potassium hydroxide (KOH) and sodium silicate or potassium silicate. Their mechanical properties are influenced by factors including raw materials, alkaline liquid to fly ash ratio, activator type and curing conditions. These alkaline liquids are generally used depending upon the molarity of NaOH solution such as 8M, 10M, 12M, 14M etc.

Fracture mechanics is the study of material behavior in the existence of cracks and crack like defects and provides methods to measure the fracture strength and toughness of the material. In quasi brittle materials like concrete, large fracture zone is formed which usually consumes more energy than failure. This provides a large post peak response. The fracture behavior is defined in terms of fractured energy, critical stress intensity factor and crack mouth opening displacement. Three-point bend test of notched beams is used to determine fracture properties

### Methodology

#### A. Materials Used:

The following are the materials used in this investigation:

1. Fine aggregate (m sand) passing through 4.75mm is sieve with a specific gravity of 2.62 and fineness modulus of 2.66 and confirms to grading zone ii as per is: 383-1970 (reaffirmed 2007).

**KLS Gogte Institute of Technology, Belagavi**  
**in association with**  
**Visvesvaraya Technological University, Belagavi**



# Certificate of Participation

This is to certify that **Veerendrakumar. M**  
of **KSSEM**, has participated in the two day  
workshop on **National Education Policy-2020** organised by  
**KLS Gogte Institute of Technology, Belagavi** in association with  
**Visvesvaraya Technological University, Belagavi**  
on **19th and 20th November 2021**

**Dr. K S L Das**  
Dean - MBA

**Dr. J K Kittur**  
Principal - KLS GIT



**KSSEM**  
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KAMMAVARI SANGHAM (R) - 1952

# K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109

Department of Civil Engineering



## CERTIFICATE OF PARTICIPATION

This is to certify that

**Mr Veerendra Kumar M**

From

KSSEM, Bangalore

has attended the Faculty Development Programme

on

“Resource recovery and reuse : waste to wealth”  
from 17<sup>th</sup> -21<sup>st</sup> January of the year 2022.



*Head of the Department*



*Principal*







**K S I T**  
K. S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R) 1952

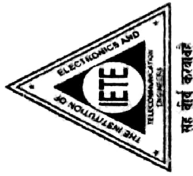
# K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC  
#14, Raghuvanahalli, Kanakapura Main road, Bengaluru-560109

Tel : 28435723 Email : principal@ksit.edu.in Web : www.ksit.edu.in



## 3 DAYS FACULTY DEVELOPMENT PROGRAM ON "OUTCOME BASED EDUCATION"



# Certificate of Participation

This is to certify that **Mr. VEERENDRA.KUMAR..M.,....K.SSEM.....**

has participated in the 3 Days Faculty Development Program on "Outcome Based Education"

at K.S. Institute of Technology Bengaluru from 17<sup>th</sup> - 19<sup>th</sup> March 2022.

**Dr. P. N. Sudha**  
Chief Coordinator NBA  
Prof. & Head ECE Department

**Dr. S. Bhaskar**  
Head - Office of PG Studies  
Kumaraguru College of Technology

**Dr. Dilip Kumar K.**  
Principal & Director K.S.I.T.

**Dr. K. V. A. Balaji**  
CEO K. S. Group of Institutions





KAMMAVARI SANGHAM (R) - 1952

# K S SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109



**KSSEM**  
K.S. GROUP OF INSTITUTIONS

Department of Civil Engineering

and

Science and Engineering Research Board



This is to certify that

**Mr/Ms VEERENDRA KUMAR . M, ASSOCIATE PROFESSOR** .....

**K.S. SCHOOL OF ENGINEERING & MANAGEMENT** ..... **has**

**participated as a delegate in the Two Day National Seminar on**

**"Performance Of Climatic Responsive Buildings - A Qualitative**

**& Quantitative Approach" held on 10<sup>th</sup> & 11<sup>th</sup> of June 2022**

*W. Xelle*

**Convener**

**Principal**

**Chief Executive Officer**



## STAFF SELF APPRAISAL REPORT

2021-2022

## KSSEM

Field	Data	SCORE
Name	Dr. Vyshali	
Present Address, Mob.No., e-mail id.	#1557, 11 <sup>th</sup> Cross, Kumaraswamy Layout, Bangalore-560111 Mobile:8861638225 Email id: <a href="mailto:vyshali@kssem.edu.in">vyshali@kssem.edu.in</a>	---
Age and Date of Birth	43, 9-8-1979	
Qualification	M.Sc, M.S, Ph.D	
Designation and Department	Associate Professor, Dept. of Civil Engineering	
Teaching Experience (After PG)	13 Years 7 months	
Other Experience(If any)		
List of Subjects Taught till date (use separate sheet if necessary)		
Number of FDPs attended since joining service (Attach Separate List)	14	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Air Pollution and Control (18CV732)- 97% 2. Engineering Geology (18CV36)-75%	34.4/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Slope Stability analysis of Infinite Slopes and Landslide Mitigation 2.	5/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. 2.	/10
Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. Engineering Geology (18CV36)-100% 2. Air Pollution and Control (18CV732)- 100% 3. 4.	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x		4.61/5



5 marks) Give details. HOD to verify.		
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\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	19 students of VIII Sem	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.		/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) FDP on "Outcome Based Education". 2) FDP on "Water-A Precious Natural Resource Sustainability towards surface and ground water conservation".	10/10
Financial Assistance received during current year for attending FDPs	NIL	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal ( 1mark.) 9. Not thought of pursuing Ph.D. (zero)	10/10
Research Publications: (5 marks each) Provide Full Details. HODs to	1. ---- 2.	/10

verify. [Attach copies of Title Page]		
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. ---- 2.	/10
Financial Assistance received during current year for attending such events.	NIL	--
Registered as Research Guide (Reasons for not registering)	Yes If ' Yes ' furnish details.	-
Research Scholars registered with details	No	/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.		/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	Supported for two-day national seminar on Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach" held at Dept. of Civil Engineering, KSSEM	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	1. <a href="https://nptel.ac.in/courses/105105110">https://nptel.ac.in/courses/105105110</a> 2. <a href="https://www.youtube.com/watch?v=hmgR4PiGp1E">https://www.youtube.com/watch?v=hmgR4PiGp1E</a> 3. <a href="https://nptel.ac.in/courses/105107129">https://nptel.ac.in/courses/105107129</a> 4. <a href="https://nptel.ac.in/courses/105102089">https://nptel.ac.in/courses/105102089</a> 5. <a href="https://www.youtube.com/watch?v=oflkpZCKDy0">https://www.youtube.com/watch?v=oflkpZCKDy0</a>	5/5

Details of Project Proposal submitted during the current year. (At least one) Provide Details		/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	NIL	/5
Consultancy Revenue Generated	NIL	/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator, Accreditation etc.(2marks for each responsibility)	<ol style="list-style-type: none"> <li>1) Time Table Coordinator</li> <li>2) NAAC 5- Department Coordinator</li> <li>3) AICTE Activity Point- Department coordinator</li> </ol>	6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	<ol style="list-style-type: none"> <li>1. Indian Society of Geomatics (ISG)</li> <li>2. Indian Society for Technical Education (ISTE)</li> </ol>	5/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	<ol style="list-style-type: none"> <li>1. Participated in Badminton tournament and secured third place held at KSSEM.</li> <li>2. Participated in Women Badminton tournament in the annual collegiate staff tournament of PES University, Bangalore.</li> </ol>	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Admission Desk duty	10/10
<b>TOTAL</b>		<b>113.01/190</b>



Date: 13-7-2022

V. J. Shal.  
Signature of faculty

**Comments from the HOD:**

Sincere, Experienced Teacher, Has bagged 1.5 Lacs worth Project from VTU Tqrip. involves in all departmental work.  
Recommended

W. Kelle  
14/7/2022  
Signature of the HOD

**Comments of the Principal after the discussion:**

1. S. S. S.  
Signature of the Principal

CEO

**List of Subjects Taught till date**

Sl No	Batch	Semester	Subject Name and Code
1	2012	III	Applied Engineering Geology (10CV36)
2	2013	III	Applied Engineering Geology (10CV36)
4		VIII	Environmental Impact Assessment(10CVL847)
5	2014	III	Applied Engineering Geology (10CV36)
6		VI	Ground water hydrology (10CV665)
7		VII	Photogrammetry and Remote Sensing (10CV764)
8		VIII	Environmental Impact Assessment (10CVL847)
9	2015	III	Engineering Geology (15CV35)
10		IV	Advanced Surveying (15CV46)
11		V	Remote sensing and GIS (15CV563)
12		VI	Water Resource Management (15CV661)
13	2016	III	Engineering Geology (15CV35)
14		IV	Advanced Surveying (15CV46)
15	2017	III	Engineering Geology(15CV35)
16		V	Remote Sensing and GIS (15CV563)
17	2018	III	Engineering Geology(17CV35)
18		V	Remote Sensing &GIS (15CV561)
19		VIII	Environmental Impact Assessment(10CV847)
20	2019	III	Engineering Geology (18CV36)
21		IV	Advanced Surveying (18CV45)
22		V	Remote Sensing and GIS (17CV563)
23		VI	Water Resources Management (15CV661)
24	2020	III	Engineering Geology (18CV36)
25		IV	Advanced Surveying (18CV45)
26		V	Remote Sensing and GIS (17CV661)
27		V	Environmental Studies (18CIV59)
28		VI	Water Resources Management (17CV661)
29		VII	Hydrology and Irrigation Engineering (17CV73)
30		I M.Tech	Research Methodology and IPR (20RMI17)
29	2021	IV	Advanced Surveying (18CV45)
31		VI	Remote Sensing and GIS (18CV651)
32		VI	Water Resources Management (17CV661)
33	2022	III	Engineering Geology (18CV36)
34		VII	Air Pollution and Control (18CV732)
35		IV	Advanced Surveying (18CV45)
36		VI	Hydrology and Irrigation Engineering (18CV63)
37		I M.Tech	Research Methodology and IPR (20RMI17)

**Number of FDPs attended since joining service**

1. FDP on “Advances in Geographic Information Systems”, KSSEM, 26<sup>th</sup> -30<sup>th</sup> March 2012.
2. FDP on “Research Methodology”, KSSEM, 30<sup>th</sup> January 2014.
3. FDP on “Training the Trainer Workshop on Intellectual Property Rights Significance for Academia”, KSSEM, 31<sup>st</sup> July 2015.
4. FDP on “Outcome Based Education & Bloom’s Taxonomy, KSSEM, 4<sup>th</sup> &5<sup>th</sup> December 2015.
5. FDP on “Applications of Remote Sensing and GIS in Civil Engineering”, Jyothy Institute of Technology, Bangalore, 16<sup>th</sup> -21<sup>st</sup> January 2017.
6. FDP on “Teaching Methodology in Engineering Geology Practicals” held at BMS college of Engineering, Bangalore on 8<sup>th</sup> and 9<sup>th</sup> February, 2020.
7. FDP on “Advanced Technology in Civil Engineering” held at Ghousia College of Engineering, Bangalore, 15<sup>th</sup> -19<sup>th</sup> June, 2020. (Online)
8. FDP on “Applications of Geo-informatics in Environmental Engineering” held at R. V College of Engineering, Bangalore, on 14<sup>th</sup> -18<sup>th</sup> July, 2020. (Online)
9. FDP on “Smart Solutions in Civil Engineering” held at K.S. School of Engineering and Management, Bangalore 20<sup>th</sup> -24<sup>th</sup> July, 2020. (Online)
10. FDP on “Sustainable Developments in Civil Engineering” held at Vidyavardhaka College of Engineering, Mysuru 3<sup>rd</sup> -8<sup>th</sup> August, 2020. (Online).
11. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Geoinformatics and Web Technologies” from 18-05-2021 to 22-05-2021 at BANASTHALI VIDYAPITH.
12. FDP on “Outcome based Education” from 17<sup>th</sup> to 19<sup>th</sup> March 2022 at K. S. Institute of Technology, Bangalore.
13. FDP on “Water- A Precious Natural Resource Sustainability towards surface and ground water conservation” from 22<sup>nd</sup> to 26<sup>th</sup> March 2022 at Bangalore Institute of Technology, Bangalore.



# Visvesvaraya Technological University

Jnana Sangama, Belagavi, Karnataka 590018

**STRICTLY CONFIDENTIAL**

**Supervisor Account Credential**

Date: 19-Dec-2019

Dear Professor,

We are happy to inform that your online account has been activated in the "Recognition of Research Supervisor Online System".

Username: [vyshalik@gmail.com](mailto:vyshalik@gmail.com)

Password: **BaMAu**

We recommend you to Login and change password as soon as possible.

Yours sincerely,

Sd/-

REGISTRAR





Kammavari Sangham(R)1952

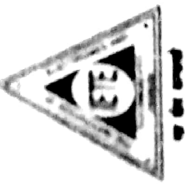
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Tel : 28435723 Email : principal@ksit.edu.in Web : www.ksit.edu.in

**KSIT**



3 DAYS FACULTY DEVELOPMENT PROGRAM

ON

“OUTCOME BASED EDUCATION”

## Certificate of Participation

This is to certify that ...**Dr. V.Y.S.HALI...**,...**K.S.S.E.M.**.....

has participated in the 3 Days Faculty Development Program on “Outcome Based Education”

at K.S. Institute of Technology Bengaluru from 17<sup>th</sup> - 19<sup>th</sup> March 2022.

Dr. P. N. Sudha

Chief Coordinator, NBT

Prof. & Head E.C.T. Department

Dr. S. Bhaskar

Head, Office of PG Studies

Kumaraguru College of Technology

Dr. Dilip Kumar K.

Principal & Director, KSIT

Dr. K. V. A. Balaji

CEO, K. S. Group of Institutions





# Bangalore Institute of Technology

(Affiliated to VTU Belagavi. Approved by AICTE, New Delhi, Accredited by NBA & Recognized by Govt. of Karnataka)  
K R Road, V V Pura, Bengaluru-560004



DEPARTMENT OF CIVIL ENGINEERING

"Five Days Faculty Development Program  
22<sup>nd</sup> March 2022 to 26<sup>th</sup> March 2022"



## Water - A Precious Natural Resource

Sustainability towards surface and ground water conservation



(WWD-BIT-2022)



### Certificate of participation

This is to certify that Dr./Mr./Ms./Mrs./Prof. DR. VYSHALI from

K.S.School of Engineering and Management, Bangalore has participated in "Five Days Faculty Development Program 22<sup>nd</sup> March 2022 to 26<sup>th</sup> March 2022" (WWD-BIT-2022)

jointly organized by Department of Civil Engineering-BIT-Bangalore, Department of Civil Engineering-UVCE-Bangalore, Water Resources Department-BIS-New Delhi, Water Institute Civil Engineering-UVCE-Bangalore, Environmental Engineers Association-Bangalore.

Dr H B Balakrishna  
Prof & Head  
Department of Civil Engineering  
BIT, Bangalore

Dr M U Aswath  
Principal  
BIT, Bangalore

Made for free with Certify'em

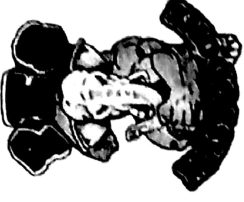






# ANNUAL INTER COLLEGIATE STAFF TOURNAMENT

25<sup>th</sup> to 27<sup>th</sup> Feb, 2022



## CERTIFICATE OF PARTICIPATION

Mr. / Ms. Dr. VYSHALI of KSGI  
from BANGALORE has participated in BADMINTON Men / Women   
in the Annual Inter Collegiate Staff Tournament of PES University, Bangalore held

from 25<sup>th</sup> to 27<sup>th</sup> February , 2022.

SPORTS DIRECTOR  
PES University

VICE CHANCELLOR  
PES University





**KSSEM**  
K.S. GROUP OF INSTITUTIONS

**Kammavari Sangham (R) 1952**  
**K.S. Group Of Institutions**

**K. S. SCHOOL OF ENGINEERING & MANAGEMENT**

No. 15, Mallasandra, off Kanakapura Road, Bangalore - 560 109



## Department of Physical Education

### Certificate

This is to certify that Mr./Ms. **DR. VYSHALI DEPT. OF CIVIL, KSSEM** .....has Participated in the  
**Badminton tournament and secured THIRD PLACE** .....place held at

KSSEM on 11-02-2022.

  
**PED, KSSEM**

**I. S. Ramoif**  
**Principal**

**STAFF SELF APPRAISAL REPORT****2021-2022****KSSEM**

Field	Data	SCORE
Name	Dr Vijayalakshmi Akella	---
Present Address, Mob.No., e-mail id.	14, 19 <sup>th</sup> A cross, 18 <sup>th</sup> Main, JP Nagar V phase, Bangalore 560078 <a href="mailto:hod.civil@kssem.edu.in">hod.civil@kssem.edu.in</a> 9845399068	
Age and Date of Birth	01-07-1965, 57 yrs	
Qualification	Ph.D	
Designation and Department	Prof and Head, Civil Engineering	
Teaching Experience (After PG)	32	
Other Experience(If any)	Experience in research and consultancy	
List of Subjects Taught till date (use separate sheet if necessary)	<ol style="list-style-type: none"> <li>1. Strength of Materials</li> <li>2. Fluid Mechanics</li> <li>3. Design of RCC Structures</li> <li>4. Analysis of structures</li> <li>5. Design of Masonry structures</li> <li>6. Structural Dynamics</li> <li>7. Earthquake Engineering</li> </ol>	--
Number of FDPs attended since joining service (Attach Separate List)	20	
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	<ol style="list-style-type: none"> <li>1. Fluid Mechanics-65%</li> <li>2. Structural Dynamics- 100</li> <li>3.Applied hydraulics- presently teaching</li> <li>4.Earthquake engineering - presently teaching</li> </ol>	35/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1.Design solutions for providing uninterrupted power supply to rural villages in India	5/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	<ol style="list-style-type: none"> <li>1.Analysis of plate action in flat slab design(title to be finalized)</li> <li>2.Analysis of transmission tower (title to be finalized)</li> </ol>	10/10



Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	100%	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	97% ( average)	5/5

\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	Continuously mentoring all the students	--
Details of Participation in <u>VTU</u> Bodies (2 Marks) Furnish details and proofs.	-	/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) Resource, recovery and reuse, waste to wealth , FDP at KSSEM, 17 <sup>TH</sup> MARCH TO 21 <sup>ST</sup> MARCH 2022	5/10
Financial Assistance received during current year for attending FDPs	Rs. 1,50,000 FROM SERB to conduct national seminar	--
Status of Ph.D. [Attach proof for each stage and for every claim]  Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	10/10

Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1.Numerical validation of experimental results for bearing capacity of internal inclined skirted footings on c-φ soils, journal of construction management, vol XXXVI,no II, ISSN 0970-3675,pp 5-12	5/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. 2.	/10
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes If ' Yes ' furnish details.	-
Research Scholars registered with details	Yes If Yes, 5 marks  1.Sushma Mallikharjun : Dynamic analysis of Dhajji Dewari structures 2. Sushma C K : Relationship between local and global ductility of High Rise structures 3. Vasanthalakshmi : Dynamic analysis of Heritage structures 4. Abhilash: Thermal Performance of climate responsive buildings	5/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	Applied Manufacturing of GGBS and Silica Fume based Coarse and fine aggregate	5/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	National seminar on A qualitative and quantitative approach on thermal performance of buildings 2 guests lectures	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	<a href="https://npTEL.ac.in/courses/105101004">https://npTEL.ac.in/courses/105101004</a> Dr R.S Jangid	5/5

Details of Project Proposal submitted during the current year. (At least one) Provide Details	SUBMITTED TO SERB TO CONDUCT NATIONAL SEMINAR SUBMITTED TO KSSEM PRINCIPAL ASKING FOR SEED MONEY TO WRITE A MONOGRAM	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs. 1,50,000 TO HOD FROM SERB ONE PROJECT SANCTION BY KSCST	5/5
Consultancy Revenue Generated	Rs.25000	3/5
Details of Participation in cultural events during the current year	Was on various committees for AAROHANA	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) NAAC COORDINATOR 2) AQAR 3) GRIEVENCE CELL COMMITTEE CHAIR PERSON 4) MEMBER FOR PROJECT IDEA CLUB 5) HEAD, RESEARCH CENTER	10/10 6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	ISTE, Life member of Indian Society for Earthquake Engineering	/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	PART OF VARIOUS COMMITTEES	5/5 2/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Conducting free DCET coaching for Polytechnique students Conducting free Inplant training for 2 weeks for Polytechnique students CONDUCTED model making competition for diploma students of various polytechniques	10/10 6/10
<b>TOTAL</b>		<b>139/190</b>

Date:

$$\begin{array}{r}
 109 - 11 = \\
 128 + 15 = \\
 \hline
 143 \\
 \hline
 190
 \end{array}$$

*inKelle*  
Signature of faculty



Comments of the Principal after the discussion:

  
Signature of the Principal

CEO

**STAFF SELF APPRAISAL REPORT****2021-2022****KSSEM**

Field	Data	SCORE
Name	Dr Rashmi H R	
Present Address, Mob.No., e-mail id.	No 1167 Jawaharlal Nehru Road, Opp to (Balakrishna rangamandir) 3rd stage, BEML layout, R R Nagar, Bangalore – 560098 Mob no : 9743266764 E-mail : rashmihr@kssem.edu.in	---
Age and Date of Birth	35 years, 14.05.1987	
Qualification	B.E, M.Tech, Ph.D	
Designation and Department	Associate Professor, Civil Engineering Department	
Teaching Experience (After PG)	06	
Other Experience(If any)	06	
List of Subjects Taught till date (use separate sheet if necessary)	Water supply Engineering, Wastewater Engineering, Solid waste Management, Environmental Impact Assessment, Hydrology, Building materials, Surveying I & II.	
Number of FDPs attended since joining service (Attach Separate List)	6	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Municipal Wastewater Engineering :90% 2.Environmental protection and Management : 100% 3.Environmental Lab : 100% 4. Environmental studies: 100% 5. Water supply and treatment engineering. 6. Conservation of natural resources	39/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	"Parameteric study of air quality index at salient points in Bangalore".	5/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	"Bacterial concrete"	5/10
Percentage of classes held ( No. of classes taken/no. of classes	1. Municipal Wastewater Engineering : 40/40	5/5

<b>allocated x 5) Give details. HOD to Endorse.</b>	2. Environmental protection and Management: 40/40 3. Environmental Lab: 12/12	
<b>Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.</b>	1. Municipal Wastewater Engineering: 85.09 2. Environmental studies : 83	4.2/5

\*Marks to be awarded for subjects for which end exam was conducted





Details of students mentored during current assessment year. (Furnish details)	16	--
Details of Participation in <u>VTU</u> <u>Bodies (2 Marks)</u> Furnish details and proofs.	1. External DCS	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1. "Experiential learning in Geotechnical Engineering", 06/12/2021 to 10/12/2021 at Visvesvaraya National Institute of Technology. 2. "Biowaste to Bioenergy: A future sustainable energy source". 14/12/2021 to 18/12/2021. Motilal Nehru National institute of Technology Allahabad, Prayagraj 3. Recycling of Plastics for Sustainable Growth.10/01/2022 to 14/01/2022, Central Institute of Petrochemicals Engineering & Technology(CIPET): Institute of Plastics Technology(IPT). 4. "Resource recovery and reuse – Waste to wealth" from January 17 <sup>th</sup> to 20 <sup>th</sup> 2022.KSSEM,Bangalore. 5. "Carbon Balance and Environmental Sustainability" from 07/02/2022 to 11/02/2022 at BMS College of Engineering, Bengaluru. 6."Sustainable energy efficient green technology" from 21/03/2022 to 26/03/2022 at MSRIT, Bangalore.	10/10
Financial Assistance received during current year for attending FDPs	Rs. NIL	--
Status of Ph.D. [Attach proof for each stage and for every claim]  Ph.D. Completed –	Awarded (2 marks)	

10 marks.		10/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	<ol style="list-style-type: none"> <li>1. H R Rashmi and C P Devatha. "Phosphorus recovery as induced struvite from deep dewatered liquors using magnesium chloride as a magnesium source", Doi/10.1088/1757-899X/561/1/012010. <b>SCOPUS INDEXED</b></li> <li>2. H R Rashmi and C P Devatha. "Recovery of phosphorus by crystallization process from dewatered liquor using industrial waste". Elsevier.(Book chapter)</li> </ol>	10/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	<ol style="list-style-type: none"> <li>1. "A performance of climatic responsive buildings- A qualitative and quantitative approach", 10<sup>th</sup> june 2022 to 11<sup>th</sup> june 2022.KSSEM, Bangalore.</li> <li>2. "Groundwater Level Monitoring" organized by CED, UVCE, Bangalore University in association with CGWB, South-western Region, Bangalore on 2nd February 2022.</li> </ol>	10/10
Financial Assistance received during current year for attending such events.	NIL	--
Registered as Research Guide (Reasons for not registering)	No (PhD was awarded in OCT 2021)	-
Research Scholars registered with details	No	-/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	No	-/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	<ol style="list-style-type: none"> <li>1. "Resource recovery and reuse – Waste to wealth" from January 17<sup>th</sup> to 20<sup>th</sup>.</li> <li>2. Project idea presentation on 20.6.2022.</li> </ol>	5/5

Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	1. "An Overview of Teaching Techniques in Innovation & Design Thinking" 27 <sup>th</sup> Dec 2021 to 31 <sup>st</sup> Dec 2021. VIAT, Muddenahalli, Chikkaballapur.	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	1. Municipal Wastewater Engineering <a href="https://nptel.ac.in/courses/105106119">https://nptel.ac.in/courses/105106119</a> 2. Environmental studies <a href="https://onlinecourses.nptel.ac.in/noc20_ge16/preview">https://onlinecourses.nptel.ac.in/noc20_ge16/preview</a>	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	NIL	/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	NIL	-/5
Consultancy Revenue Generated	NIL	-/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator, Accreditation etc.(2marks for each responsibility)	1) Coordinator for Idea club 2) Coordinator for Technical seminar 3) Coordinator for Industrial visit 4) Mentor for first year students 5) Environmental lab in charge	10/10
Details of Live Membership for Professional Bodies	American society of Civil Engineers	2/5



(IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)		
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	<ol style="list-style-type: none"> <li>Coordinator for the cooking without fire.</li> <li>Participated in Dumb charades and won 1<sup>st</sup> prize.</li> </ol>	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Admission desk	10/10
<b>TOTAL</b>		<b>150.2/190</b>

Date: 14-01-2022.

*P. S. H. P.*  
Signature of faculty

Comments from the HOD:

Proactive, Takes initiative, Sincere  
Recommended

*U. Kelle*  
Signature of the HOD

Handler / Offers open elective, involved in Project Idea club.

Comments of the Principal after the discussion:

Performance is satisfactory.

*K. S. S.*  
Signature of the Principal

CEO

No: ATAL/2021/1638854096



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training and Learning (ATAL) Academy

### *Certificate*

This is certified that Rashmi H R, Assistant Professor of KSSEM participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Carbon Balance and Environmental Sustainability" from 07.02.2022 to 11.02.2022 at BMS College of Engineering, Bengaluru.

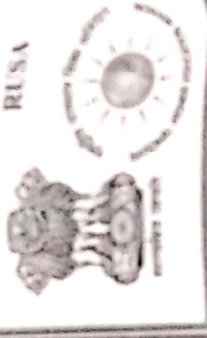


Advisor-I, ATAL Academy  
Mamta Rani Agarwal

Coordinator



**RAMAIAH**  
Institute Of Technology



## CERTIFICATE OF PARTICIPATION

of \_\_\_\_\_

Rashmi H R

This is to certify that \_\_\_\_\_

KSSEM Bangalore

participated in Six Days Faculty Development Program on "SUSTAINABLE ENERGY EFFICIENT GREEN TECHNOLOGY", organized by the Department of Civil Engineering, MSRIT, during 21<sup>st</sup> to 26<sup>th</sup> March, 2022.

*Nagashree B*

Ms. B Nagashree  
Co-ordinator  
Assistant Professor  
Civil Engineering Dept., MSRIT

Dr. R Mourougane  
Co-ordinator  
Associate Professor  
Civil Engineering Dept., MSRIT

Dr. I. Venugopal  
Convener  
Professor & Head  
Civil Engineering Dept., MSRIT

Dr. N V R Naidu  
Principal  
MSRIT



KAMMAVARI SANGHAM (R) - 1952



**KSSEM**

# K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109

Department of Civil Engineering



## CERTIFICATE OF COORDINATION

IN FACULTY DEVELOPMENT PROGRAMME OF RESOURCE RECOVERY AND REUSE : WASTE TO WEALTH FROM  
DEPARTMENT OF CIVIL ENGINEERING

This is to certify that

**Dr. Rashmi H R**

has successfully Coordinated and Organized  
Faculty Development Programme

on

“Resource recovery and reuse : waste to wealth”  
from 17<sup>th</sup> -21<sup>st</sup> January of the year 2022.

*Rashmi H R*

Head of the Department

*Rashmi H R*

Principal





Gmail - Selected as Book Chapter "Phosphorus recovery as induced struvite from deep dewatered liquors using magnesium chloride as a magnesium source"

Rashmi H R <rashusmile14@gmail.com>

**Selected as Book Chapter "Phosphorus recovery as induced struvite from deep dewatered liquors using magnesium chloride as a magnesium source"**

Sat, Jan 29, 2022 at 1:50 PM

1 message

Managing Editor-BOOK <editor01@bookspi.org>

To: rashusmile14@gmail.com

To  
H R Rashmi  
Department of Civil Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore-575 025, India  
Email: rashusmile14@gmail.com

Subject: Selected as Book Chapter "Phosphorus recovery as induced struvite from deep dewatered liquors using magnesium chloride as a magnesium source"

Dear Dr. H R Rashmi,

We are glad that you are reading this mail. We hereby heartily congratulate you for the publication of your following paper. We appreciate your hard work and sincerity behind the publication of this excellent paper.

**"Phosphorus recovery as induced struvite from deep dewatered liquors using magnesium chloride as a magnesium source"**

in  
Materials Science and Engineering 561 (2019) 012010

You are already aware that publication of research work in a peer-reviewed international journal has important value. At the same time publication of research work as a Book chapter in an Edited Book also has a significant importance in career. A research paper which has already been published in a journal can be published as a Book Chapter in an expanded form. It is completely legal and acceptable procedure in the academic world.

We want to share good news with you. We have published more than 82 books in last three months (<https://www.bookspi.org/>). We are overwhelmed with pleasure for this tremendous response from researchers like you. We are going to publish more than 5 volumes in next two months in the following area. With the same research work you can get double benefit and it will enrich your resume.

*We're happy to inform that your paper has been selected to be included as one of the potential book chapters of the following book. You're also welcome to publish your other research papers, which have been published in other journals. If you have any fresh manuscript, you can submit for review and inclusion as book chapter.*

**Book name: Recent Trends in Chemical and Material Sciences**

## **Recovery of phosphorus from the dewatered liquor by struvite crystallization using seawater as a magnesium source**

*Devatha, C. P\* and Rashmi, H. R.*

Associate Professor, Department of Civil Engineering, National Institute of Technology

Karnataka, Surathkal, India. *Email:* [revacp@gmail.com](mailto:revacp@gmail.com)

Research Scholar, Department of Civil Engineering, National Institute of Technology Karnataka, Surathkal, India. *Email:* [rashusmile14@gmail.com](mailto:rashusmile14@gmail.com)

*\* Corresponding Author*

### **Abstract**

Due to the finite and non-renewable nature of the phosphate resource, recycling and reuse of nutrients are an environmental and economical motivation that finally leads to water reuse. In recent times, phosphorus recovery is attempted to utilize waste materials. Hence, in this paper, the recovery of phosphorus was studied from the dewatered liquor using seawater as a magnesium source, using struvite crystallization technology, which is one of the most widely recommended technology for the recovery of phosphorus. The sludge dewaterability was achieved with varying dosages of granulated blast furnace slag (GBFS) as skeleton material. The removal of moisture content from the sludge was observed at the dosage of 40%DS. An initial characteristic of dewatered liquor and seawater was examined. Batch tests were carried out with varied pH (7-11) and Mg P molar ratios (0.6-1.4) to identify the suitable conditions for maximal phosphorus recovery. SEM, EDX, and XRD were used to confirm the formation of struvite. As a result, the study focuses on developing a novel and cost-effective method for recovering phosphorus from dewatered liquor via struvite crystallization. The results showed that phosphorus recovery was efficient, with 94 % of phosphorus recovered as struvite. **Hence, the paper focuses on finding an innovative and cost-effective way to recover phosphorus from the dewatered liquor through struvite crystallization. It can be concluded that seawater can also be considered a magnesium source for the formation of struvite.**

**Keywords:** Non-renewable, dewatered liquor, molar ratio, seawater, struvite.





**KS GROUP OF INSTITUTIONS**  
**KS SCHOOL OF ENGINEERING AND MANAGEMENT**



# CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs

*Rashmi*

of Department Civil has secured 1<sup>st</sup> place in the  
event Dumb charades, AAROHANA 2022

*Harely*

Cultural co-ordinator



*I. C. Rao*  
Principal



**STAFF SELF APPRAISAL REPORT****2021-2022****KSSEM**

Field	Data	SCORE
Name	SUSHMA.M	
Present Address, Mob.No., e-mail id.	#148, 17 <sup>th</sup> main, 6 <sup>th</sup> cross, S Y Nagar, Bengaluru-58 Contact: 9740775417 e-mail ID: sushma.m@kssem.edu.in	---
Age and Date of Birth	Age: 30 Date of Birth: 17-10-1991	
Qualification	M.Tech (Structural Engineering)	
Designation and Department	Designation: Assistant Professor Department: Civil Engineering	
Teaching Experience (After PG)	7 years	
Other Experience (If any)	0.6 years (SOMA- METRO)	
List of Subjects Taught till date (use separate sheet if necessary)		
Number of FDPs attended since joining service (Attach Separate List)	<ol style="list-style-type: none"> <li>1. Sustainable and Strengthening of Low Cost Housing for Rural India (2020-21)</li> <li>2. Structural Monitoring of Bridges Case Study on Significance of Monitoring Temperature and Humidity (2020-21)</li> <li>3. Sustainable Design with Pre-Engineered Techniques- An Approach towards Eco-friendly Buildings (2020-21)</li> <li>4. Sustainable Practices for Conservation and Management of Water (2020-21)</li> <li>5. Outcome Based Education (2020-21) Attended One- Week Faculty Development Programme on "Recent Advancements in Concrete Technology" organized by "B.M.S College of Engineering", 2020</li> <li>6. Participated Five Day Faculty Development Programme on "Smart Solutions in Civil Engineering", organized by KSSEM, 2020</li> <li>7. Participated in Two Days Faculty Development Program on "Research</li> </ol>	--

	<p>Proposal towards PhD Admission Programmes", at K.S. School of Engineering and Management during 25th and 26th July, 2017</p> <p>8. Participated in Two Days Faculty Development Program on "Research Proposal towards PhD Admission Programmes", at K.S. School of Engineering and Management during 24th and 25th July, 2016</p> <p>9. Participated in Faculty Development Programme on "Training the Trainer Workshop on Intellectual Property Rights Significance for Academia" held at K.S. School of Engineering and Management on 31st July 2015</p> <p>10. Participated in Faculty Development Programme on "Outcome Based Education and Bloom's Taxonomy" held at K.S. School of Engineering and Management on 4 th and 5 th December, 2015</p>	
<p><b>*Subjects taught in the Assessment Year and percentage pass (Both Theory &amp; Practicals) (10marks for each x Percentage) If Online please indicate.</b></p>	<p>1. Quantity Surveying and Contracts Management-100%</p> <p>2. Design of Masonry Structures-100%</p> <p>3. Matrix method of Structural Analysis-95%</p> <p>4. Building Materials Testing Laboratory-100%</p> <p>5. Quantity Surveying and Contracts Management (Parallel Batch)- Results yet to be announced</p>	39.5/40
<p><b>Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)</b></p>	<p>1. Sustainability of Traditional Rural Mud Houses in Kanakapura Village: A Study related to Thermal Comfort</p> <p>2. Experimental Investigation on Flexural Strength</p>	10/10
<p><b>Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)</b></p>	<p>1. Dynamic Analysis of Timber Frame Structure using ANSYS</p> <p>2. Constitutive law for Acacia wood Behavior under Compressive Loading</p>	10/10
<p><b>Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.</b></p>	<p>1. Quantity Surveying and Contracts Management- 100%</p> <p>2. Design of Masonry Structures-100%</p> <p>3. Matrix method of Structural Analysis-100%</p> <p>4. Quantity Surveying and Contracts</p>	5/5



NPTEL and others (Only programs $\geq$ 20 hours need to be considered.		
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Engineering Seismology: <a href="https://nptel.ac.in/courses/105/108/105108204/">https://nptel.ac.in/courses/105/108/105108204/</a>  Structural Analysis: <a href="https://nptel.ac.in/courses/105/105/105105166/">https://nptel.ac.in/courses/105/105/105105166/</a>	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	1. " Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach" to DST-SERB 2. "Sustainability of Traditional Rural Mud Houses in Kanakapura Village: A Study related to Thermal Comfort" to KSCST	5/5 4/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	1. Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach-Rs. 1,50,000/- from DST-SERB 2. Sustainability of Traditional Rural Mud Houses in Kanakapura Village: A Study related to Thermal Comfort- Rs.5000/- from KSCST	5/5 3/5
Consultancy Revenue Generated	NIL	0/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) Department Cultural Coordinator 2) NAAC Criteria III Coordinator 3) Department PG Project Coordinator	6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	NIL	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Department Cultural Coordinator- Organized events like 1. Group Dance and Solo Dance 2. Cooking without fire for students and faculties 3. Painting for AAROHANA 2022	2/5 5/5
Contribution towards	1.Telecalling	

<p>Status of Ph.D. [Attach proof for each stage and for every claim]</p> <p>Ph.D. Completed – 10 marks.</p>	<ol style="list-style-type: none"> <li>1. Appeared for Course work exams (1 mark)</li> <li>2. Applied for registration formalities (1 mark)</li> <li>3. Identified Guide/Research Centre and preparing research Proposal (1mark.)</li> </ol>	<p>3/10</p>
<p>Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]</p>	<p>1. NIL</p>	<p>0/10</p>
<p>Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]</p>	<ol style="list-style-type: none"> <li>1. "An Overview of Teaching Techniques in Earthquake Resistant Design of Structures", organized by VTU- HRDC between 16<sup>th</sup> to 20<sup>th</sup> May,2022</li> <li>2. A Two Day National Seminar on," Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach" from 10<sup>th</sup> to 11<sup>th</sup> June, 2022</li> </ol>	<p>10/10</p>
<p>Financial Assistance received during current year for attending such events.</p>	<p>NIL</p>	<p>--</p>
<p>Registered as Research Guide (Reasons for not registering)</p>	<p>No</p>	<p>-</p>
<p>Research Scholars registered with details</p>	<p>No</p>	<p>0/5</p>
<p>Details of Patents Applied for (If any) One application 5 marks Provide Details.</p>	<p>NIL</p>	<p>0/5</p>
<p>Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.</p>	<ol style="list-style-type: none"> <li>1. Co-Convenor for Two Day National Seminar on," Performance of Climatic Responsive Buildings- A Qualitative and Quantitative Approach" from 10<sup>th</sup> to 11<sup>th</sup> June, 2022</li> <li>2. Organized Technical Talk by Dr. Manamohan Kalgal on, "Application of Precast and Prestressed Concrete in Building and Infrastructure Sector"</li> </ol>	<p>5/5 3/5</p>
<p>Details of programs attended for skill development like MOOCs, MOODLES, COURSERA,</p>	<ol style="list-style-type: none"> <li>1. Design of Masonry Structures</li> <li>2.Engineering Seismology</li> </ol>	<p>5/5 3/5</p>

Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	Management (Parallel Batch)- 100% 95.41%	4.77/5
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Details of students mentored during current assessment year. (Furnish details)	<ol style="list-style-type: none"> <li>1. Anil Kumar T</li> <li>2. Akash K Murthy</li> <li>3. Bhagath H K</li> <li>4. Dinesh Krishnan</li> <li>5. Yashwanth K</li> <li>6. Aishwarya M</li> <li>7. Aishwarya S</li> <li>8. Anup</li> <li>9. B Naveen</li> <li>10. Chethana C R</li> <li>11. Lavanya S</li> <li>12. Madhunandan S</li> <li>13. Mary Aishwarya B</li> <li>14. Narasimha Shenoy K P</li> <li>15. Nirmitha S</li> <li>16. Prabin Singh</li> <li>17. Prajwal M</li> <li>18. Ravi V</li> <li>19. Mounesh Kumar N</li> </ol>	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	NIL	/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	<ol style="list-style-type: none"> <li>1. Practical Exams</li> <li>2. Conduction of Theory exams</li> <li>3. Paper Setting</li> <li>4. Evaluation</li> </ol>	8/8 6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	<ol style="list-style-type: none"> <li>1) "Sustainable Practices for conservation and management of water", AICTE Training and Learning (ATAL) Academy, from 13/09/2021 to 17/09/2021</li> <li>2) "Sustainable Design with Pre- Engineered Techniques- an approach towards Eco-friendly Buildings", AICTE Training and Learning (ATAL) Academy, from 04/10/2021 to 08/10/2021</li> </ol>	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--



Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.	Management (Parallel Batch)- 100% 95.41%	4.77/5
--	---	--------

Details of students mentored during current assessment year. (Furnish details)	<ol style="list-style-type: none"> <li>1. Anil Kumar T</li> <li>2. Akash K Murthy</li> <li>3. Bhagath H K</li> <li>4. Dinesh Krishnan</li> <li>5. Yashwanth K</li> <li>6. Aishwarya M</li> <li>7. Aishwarya S</li> <li>8. Anup</li> <li>9. B Naveen</li> <li>10. Chethana C R</li> <li>11. Lavanya S</li> <li>12. Madhunandan S</li> <li>13. Mary Aishwarya B</li> <li>14. Narasimha Shenoy K P</li> <li>15. Nirmitha S</li> <li>16. Prabin Singh</li> <li>17. Prajwal M</li> <li>18. Ravi V</li> <li>19. Mounesh Kumar N</li> </ol>	--
Details of Participation in <u>VTU</u> Bodies (2 Marks) Furnish details and proofs.	NIL	/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	<ol style="list-style-type: none"> <li>1. Practical Exams</li> <li>2. Conduction of Theory exams</li> <li>3. Paper Setting</li> <li>4. Evaluation</li> </ol>	8/8 6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	<ol style="list-style-type: none"> <li>1) "Sustainable Practices for conservation and management of water", AICTE Training and Learning (ATAL) Academy, from 13/09/2021 to 17/09/2021</li> <li>2) "Sustainable Design with Pre- Engineered Techniques- an approach towards Eco-friendly Buildings", AICTE Training and Learning (ATAL) Academy, from 04/10/2021 to 08/10/2021</li> </ol>	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--

Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	2. Supported "In-plant Training for Diploma Civil Students"	4/10
TOTAL		140.27/190

Date: 16/07/2022

141-12

$$\frac{129}{190}$$

*Suchma . M*  
Signature of faculty

Comments from the HOD:

- > Advise to improve on publications
- > Good Teacher, learnt to write good research Proposals
- > good organizer of events
- > Asset to Dept

*W. Kelle*  
Signature of the HOD

Comments of the Principal after the discussion:

Performance is satisfactory.

*I. R. B. f*  
Signature of the Principal

CEO

KAMMAVATI LANGUAM (U) 1952

# K S SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#16, Malleswara, Old, Kinsalepura Road, Mangaluru 560109



Department of Civil Engineering

and

Science and Engineering Research Board



K S S E M

This is to certify that

Mr/Ms SUSHMA M., ASSISTANT PROFESSOR

K S SCHOOL OF ENGINEERING & MANAGEMENT

participated as a delegate in the Two Day National Seminar on  
"Performance Of Climatic Responsive Buildings - A Qualitative  
& Quantitative Approach" held on 10<sup>th</sup> & 11<sup>th</sup> of June 2022

W.Kelle  
Convener

Principal

Chief Executive Officer





**AICTE – VTU Joint Teachers Training Programme**  
**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

VTU HUMAN RESOURCE DEVELOPMENT CELL (VTU - HRDC)  
 Centre for Post-Graduation Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101  
 One Week Online Teachers Training Program

On  
 “An Overview of Teaching Techniques in Earthquake Resistant Design of Structures”  
 16<sup>th</sup> – 20<sup>th</sup> May 2022

## Certificate

This is to certify that Mr./Mrs./Dr. /Prof. *Sushma.M of K S School of Engineering & Management* has Participated and Successfully completed One Week AICTE – VTU Joint Teachers Training Programme on “An Overview of Teaching Techniques in Earthquake Resistant Design of Structures” between 16th & 20th May 2022 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.

**Dr. Nirmala Hiremani**  
 Programme Coordinator  
 Earthquake Resistant Design of Structure,  
 VTU CPGS, Muddenahalli.

**Dr. N. Chikkanna**  
 TU Coordinator, Professor & Chairman  
 Dept. of Aerospace Engineering  
 VTU CPGS, Muddenahalli.

**Dr. A S Deshpande**  
 Registrar  
 VTU, Belagavi.



**AICTE – VTU Joint Teachers Training Programme**  
**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

VTU HUMAN RESOURCE DEVELOPMENT CELL (VTU - HRDC)  
Centre for Post-Graduation Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) -562101  
One Week Online Teachers Training Program



On

“An Overview of Teaching Techniques in Earthquake Resistant Design of Structures”  
16<sup>th</sup> – 20<sup>th</sup> May 2022

## *Certificate*

*This is to certify that Mr./Mrs./Dr./Prof. Sushma.M of K S School of Engineering & Management has Participated and Successfully completed One Week AICTE – VTU Joint Teachers Training Programme on “An Overview of Teaching Techniques in Earthquake Resistant Design of Structures” between 16th & 20th May 2022 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.*

**Dr. Nirmala Hiremani**  
Programme Coordinator  
Earthquake Resistant Design of Structure,  
VTU CPGS, Muddenahalli.

**Dr. N. Chikkanna**  
TU Coordinator, Professor & Chairman  
Dept. of Aerospace Engineering  
VTU CPGS, Muddenahalli.

**Dr. A S Deshpande**  
Registrar  
VTU, Belagavi.



KAMMAVARI SANGHAM GROUP OF INSTITUTIONS  
**STAFF SELF APPRAISAL REPORT**

**2021-2022**

**KSSEM**

Field	Data	SCORE
Name	NAVEENA M.P	---
Present Address, Mob.No., e-mail id.	G1 ELITE PATRIKOR 10 <sup>th</sup> CROSS BALAJILAYOUT ,MALTHAHALLI NAGRABHAVIBANGALORE-560056 Mob: 7349093996 Maild ID: mpsnaveena@gmail.com	
Age and Date of Birth	32, 12-08-1989	
Qualification	M.Tech	
Designation and Department	Asst.Professor, (Civil)	
Teaching Experience (After PG)	5	
Other Experience(If any)	Industry -2	
List of Subjects Taught till date (use separate sheet if necessary)		
Number of FDPs attended since joining service (Attach Separate List)	5	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory &Practicals) (10marks for each x Percentage) If Online please indicate.	1.Design of Pre-stressed Concrete Elements 2. Finite Element Analysis 3. Design concept of Building Service 4. Structural Engineering Lab -II	40/40
Details of UG Projects Guided (5 marks/ project guided)Provide Titles (HOD to endorse)	1. Experimental Investigation on Flexural strength of Bamboo reinforced concrete beam. 2. Sustainability of Traditional Rural Mud houses in Kanakapura village: A study Related to Thermal Comfort.	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. Experimental Investigation on Retrofitting of RCC beam using Bamboo strip. 2. Push over Analysis of RCC ad Steel Structures.	10/10



Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	100 Percentage	5/5
Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify.	90 Percentage	4.5/5

\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)		--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	-----	/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) Sustainable Energy Efficient Green Technology  2) Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings"	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage and for every claim]  Ph.D. Completed – 10 marks.	1. Identified Guide/Research Centre and preparing research Proposal ( 1 mark.) 2. Applied for registration formalities (1 mark). 3. Appeared for Course work exams (1 mark) 4. Comprehensive viva voce completed (1 mark) 5. Experimentation/Data Collection in completed (1 mark)	5/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify.	1. Alternative Fine and Coarse aggregate in concrete – A Review	5/10

[Attach copies of Title Page]		
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. An overview of Teaching Techniques in Earthquake Resistant Design of Structures. 4 2. Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach.	10/10
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	0/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	Manufacturing Process Of GGBS And SilicaFume Based Coarse And Fine Aggregate.	5/5
Academic Programs organized and supported during current year.(Only FDP/Workshop/Seminar / Conference) . Do not include Webinars.	1. Application of Precast and Prestressed concrete in Building and Infrastructure Sector (Seminar). 2. Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach (FDP)	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Design of Prestressed concrete Elements_NPTEL 3	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	<a href="https://nptel.ac.in/courses/105/106/10510">https://nptel.ac.in/courses/105/106/10510</a> NPTEL –Design of PSC	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach (Science Engineering & Research Board). Sustainability of Traditional Rural Mud houses in Kanakapura village: A study Related to Thermal Comfort (KSCST).	5/5
Details of Project Funds Received. (including KSCST & VTU financial	Rs. 1,50,000 from (Science Engineering & Research Board).	5/5

coordinators

assistance)	Rs. 5000 from (KSCST).	/5
Consultancy Revenue Generated	Rs.	
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR Aarohana (in staff committee certificate)	
Additional Responsibilities in the Department/ College Example: Head, Coordinator, Accreditation etc. (2marks for each responsibility)	1) 1) NAAC Criteria 1 Coordinator 2) Website Coordinator 3) Test coordinator 4) PG Coordinator 5) Structural Lab In charge	5 (10/10)
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)(2marks for first membership & 3 marks for second membership)	ICI _Indian concrete Institute	2/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Certificates Distribution In charge for Aarohana 2022.	2 (5/5)
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Telephone calling duty 2. Supported for In plant Training for Diploma students 3. DCET Coaching for Polytechnic Students	3 (10/10)
<b>TOTAL</b>		<b>164.5/190</b>

Date: 12/07/2022

Comments from the HOD:

Sincere and Hardworking.  
advised to submit the PhD thesis

*[Signature]*  
Signature of faculty  
(Ext DCs duty)

-23

141.5

*[Signature]*  
Signature of the HOD



Comments of the Principal after the discussion:

Performance is satisfactory

  
Signature of the Principal

CEO





# AICTE – VTU Joint Teachers Training Programme VISVESVARAYA TECHNOLOGICAL UNIVERSITY

VTU HUMAN RESOURCE DEVELOPMENT CELL (VTU - HRDC)

Centre for Post-Graduation Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101

One Week Online Teachers Training Program



On

“ An Overview of Teaching Techniques in Earthquake Resistant Design of Structures”  
16<sup>th</sup> – 20<sup>th</sup> May 2022

## Certificate

This is to certify that Mr. /Mrs. /Dr. /Prof. Naveena M.P of K.S.School of Engineering & Management has Participated and Successfully completed One Week AICTE-VTU Joint Teachers Training Programme on “An Overview of Teaching Techniques in Earthquake Resistant Design of Structures” between 16th & 20th May 2022 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.

**Dr. Nirmala Hiremani**  
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TU Coordinator, Professor & Chairman  
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VTU CPGS, Muddenahalli.

**Dr. A S Deshpande**  
Registrar  
VTU, Belagavi.



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training and Learning (ATAL) Academy

### *Certificate*

This is certified that Naveena MP, Assistant Professor of K.S.SCHOOL OF ENGINEERING AND MANAGEMENT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Five days Faculty Development Program on Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings" from 13/09/2021 to 17/09/2021 at Dayananda Sagar Academy of Technology & Management.

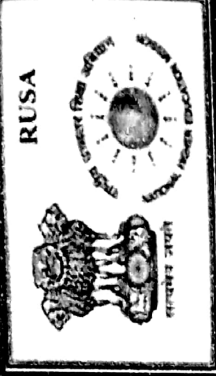


Advisor-I, ATAL Academy  
Mamta Rani Agarwal

Coordinator



**RAMAIAH**  
Institute Of Technology



UltraTech

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr. NAVEENA M.P of \_\_\_\_\_

K.S.School of Engineering & Management

participated in Six Days Faculty Development Program on “**SUSTAINABLE ENERGY EFFICIENT GREEN TECHNOLOGY**”, organized by the Department of Civil Engineering, MSRIT, during 21<sup>st</sup> to 26<sup>th</sup> March, 2022.

*Nagashree B*

**Ms. B Nagashree**  
Co-ordinator  
Assistant Professor  
Civil Engineering Dept., MSRIT

**Dr. R Mourugane**  
Co-ordinator  
Associate Professor  
Civil Engineering Dept., MSRIT

**Dr. I. Venugopal**  
Convener  
Professor & Head  
Civil Engineering Dept., MSRIT

**Dr. N V R Naidu**  
Principal  
MSRIT



# K.S.School of Engineering & Management

15, Mallasandra, off Kanakapura Road,  
Bangalore – 560109



**KSSEM**  
K.S. SCHOOL OF ENGINEERING & MANAGEMENT

www.kssem.edu.in

## Department of Civil Engineering

Organizes

### TECHNICAL LECTURE ON

*"Application of Precast and  
Prestressed concrete in Building  
Sector"*

*(For Final Year UG and PG students)*

### BY Dr. Manamohan Kalgal

Past Secretary General, ACCE(I), Past President, ICI  
Technical Advisor  
(Ultra Tech Cement Ltd), Bangalore



**ABOUT SPEAKER:** Dr. Manamohan Kalgal, has spent more than 20 years in teaching, research and consultancy. Presently Jt. President & Head, Technical Services at UltraTech Cement Ltd and heading Technical Services - A team of more than 800 engineers (on roll + Off roll) engaged in Quality Enhancement of Constructions in housing sector, dissemination of information on good construction practices, training of masons and monitoring of cement quality. Dr. Kalgal is involved in several professional bodies like ICI, ACCE and Asian Concrete Federation.

ON Tuesday, 19<sup>TH</sup> April 2022

Lecture time: 10.AM

Venue: Civil Seminar Hall

Patrons: Dr. K. Rama Narasimha  
Principal  
K.S.S.E.M

Dr. Vijaya Lakshmi Akella  
Professor & Head  
Department of Civil Engineering  
K.S.S.E.M

Coordinators: Mr. Naveena M.P  
Assistant Professor  
Department of Civil Engineering  
KSSEM, Bangalore

Mrs. Sushma M  
Assistant Professor  
Department of Civil Engineering  
KSSEM, Bangalore





KAMMAVARI SANGHAM (R) - 1952

# K S SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Malasandra, Off. Kattiappa Road, Bengaluru-560104



Department of Civil Engineering

and



Science and Engineering Research Board



This is to certify that

MR/MS NAVEENA M.P, ASSISTANT PROFESSOR

K.S. SCHOOL OF ENGINEERING & MANAGEMENT

5043

participated as a delegate in the Two Day National Seminar on  
"Performance Of Climatic Responsive Buildings - A Qualitative  
& Quantitative Approach" held on 10<sup>th</sup> & 11<sup>th</sup> of June 2022

W. K. S.  
Convener

Officer



## STAFF SELF APPRAISAL REPORT

2021-2022

## KSSEM

Field	Data	SCORE
Name	Mrs. AMRUTHA DHIRAJ	
Present Address, Mob.No., e-mail id.	C-104, GR Heights, 80 Feet Road, JP Nagar 8 <sup>th</sup> Phase, Bengaluru-76 Mobile: 9886443351 e-mail ID: <a href="mailto:amrutha@kssem.edu.in">amrutha@kssem.edu.in</a> <a href="mailto:d.amrutha@gmail.com">d.amrutha@gmail.com</a>	---
Age and Date of Birth	38 yrs., 19/05/1984	
Qualification	M.S (Structural); (Ph.D)	
Designation and Department	Assistant Professor, Civil Engineering	
Teaching Experience (After PG)	Teaching: 6.5 years	
Other Experience(If any)	Industry: 2.75 years	
List of Subjects Taught till date (use separate sheet if necessary)	Separate List Attached	
Number of FDPs attended since joining service (Attach Separate List)	3 (Separate List Attached)	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	<ol style="list-style-type: none"> <li>Quantity Surveying &amp; Contracts Management (7<sup>th</sup> sem): 100%</li> <li>Strength of Materials (3<sup>rd</sup> sem): 40%</li> <li>Elements of Civil Engineering &amp; Mechanics, A sec (2<sup>nd</sup> sem): (Awaiting results)</li> <li>Concrete &amp; Highway Materials Laboratory (5<sup>th</sup> sem): 100%</li> <li>Concrete Technology (ongoing for 4<sup>th</sup> sem)</li> <li>Elements of Civil Engineering &amp; Mechanics, D sec (ongoing for 2<sup>nd</sup> sem)</li> <li>Fluid Mechanics &amp; Hydraulics Machines Laboratory (ongoing for 4<sup>th</sup> sem)</li> </ol>	32/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1.Design of bullet train tracks for Mumbai-Ahmedabad stretch	5/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. Study on the effect of natural plasticizer on properties of cement concrete	5/10
Percentage of classes held ( No. of classes taken/no. of classes	<ol style="list-style-type: none"> <li>(40/40)x5</li> <li>(50/50)x5</li> <li>(40/40)x5</li> </ol>	5/5

allocated x 5) Give details. HOD to Endorse.	4. (12/12)x5	
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	<ol style="list-style-type: none"> <li>1. Quantity Surveying &amp; Contracts Management -95.41%</li> <li>2. Strength of Materials – 96.91</li> <li>3. Elements of Civil Engineering &amp; Mechanics, A sec -93.66%</li> </ol>	4.77/5

\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	21 (Second Year Civil Engineering Students)	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.		0/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.	<ol style="list-style-type: none"> <li>1. Practical Exams - v</li> <li>2. Conduction of Theory exams - v</li> <li>3. Paper Setting - v</li> <li>4. Evaluation - v</li> </ol>	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	<ol style="list-style-type: none"> <li>1) Scientific Foundations of Health, 3 days 09/05/2022 to 11/05/2022 (offline)</li> <li>2) Sustainable Design with Pre-Engineered Techniques: - An Approach towards Eco-Friendly Buildings (ATAL online FDP) 5 days 13/09/2021 to 17/09/2021</li> </ol>	10/10
Financial Assistance received during current year for attending FDPs	Rs. 300/-	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	<ol style="list-style-type: none"> <li>1. Awarded (2 marks)</li> <li>2. Thesis Submitted and awaiting reports (1 mark)</li> <li>3. Thesis Preparation (2 Mark)</li> <li>4. Experimentation/Data Collection in completed (1 mark)</li> <li>5. Comprehensive viva voce completed (1 mark)</li> <li>6. Appeared for Course work exams (1 mark)</li> <li>7. Applied for registration formalities (1 mark)</li> <li>8. Identified Guide/Research Centre and preparing research Proposal (1mark.)</li> <li>9. Not thought of pursuing Ph.D. (zero)</li> </ol>	6/10

Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	--	0/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Recent Advances in Civil Engineering (AICTE ISTE approved Orientation/Refresher Programme online) 6 days 29/12/2021 to 04/01/2022 2. Research paper Writing Using Latex 1 day online workshop 19/12/2021	10/10
Financial Assistance received during current year for attending such events.	---	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	0/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	-----	0/5
Academic Programs organized and supported during current year. (Only FDP /Workshop /Seminar / Conference). Do not include Webinars.	"Resource recovery and reuse: waste to wealth" from 17th -21st January 2022.	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.		0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Utilized NPTEL Videos and Lecture notes of Concrete Technology and Advanced Concrete Technology for the subject Concrete technology 18CV44  <a href="https://www.digimat.in/nptel/courses/video/105106176/L01.html">https://www.digimat.in/nptel/courses/video/105106176/L01.html</a> ((lectures 1-30) <a href="https://www.digimat.in/nptel/courses/video/105102012/L01.html">https://www.digimat.in/nptel/courses/video/105102012/L01.html</a> (lectures 1-25)	5/5



Details of Project Proposal submitted during the current year. (At least one) Provide Details	Utilization of Waste Materials (Waste Foundry Sand, Plastic Waste, Agro-Waste) for making Sustainable Green Bricks/Blocks, VGST	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs. -----	0/5
Consultancy Revenue Generated	Rs.	0/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) Mentor for Second Year Students 2) NAAC-Criteria 6 Coordinator 3) Department Sports Coordinator 4) UG Project coordinator 5) LIC Coordinator (Dept.)	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	---	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Coordinated for KSGI Staff Badminton Tournament held in Feb 2022. Coordinated for ACCE (I) Walkathon on 25 <sup>th</sup> Nov 2021 to promulgate Civil Engineering Professionals Act	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Tele-calling prospective students for engineering admissions Promotion of College for admissions in chikkaballapura and surrounding areas	10/10
<b>TOTAL</b>		<b>125.77/190</b>

Date: 13/07/2022

*Anandhe-D*  
Signature of faculty

Comments from the HOD:

Sincere, Takes classes Regularly, Good Teacher  
Bagged the ice axe in Mountaineering club (Scholarship)  
Worked for criteria 6 in NAAC, Assisted Principal in  
Presentations  
Recommended

*W. Kelle 14/1/2022*  
Signature of the HOD

Comments of the Principal after the discussion:

Performance is satisfactory.

*I. S. Romo*  
Signature of the Principal

CEO

**List of Subjects Taught till date and percentage pass**

Sl. No.	Year	Dept.	Subject	Percentage.
1	Aug –Dec 2019	Civil (UG)	Strength of Materials (18CV32)	74
2	Aug –Dec 2019	Civil (PG)	Advanced Design of RC Structures (18CSE12)	100
3	Aug –Dec 2019	Civil (UG)	Computer Aided Building Planning & Drawing (18CVL37)	95
4	Jan -Jun 2020	Civil (UG)	Alternative Building materials (17CV653)	100
5	Jan-Jun 2020	Civil (UG)	Quantity Surveying & Contracts Management (15CV81)	100
6	Jan -Jun 2020	Civil (UG)	Fluid Mechanics & Hydraulic Machines (18CVL48)	100
7	Dec 2020- Apr 2021	Civil (UG)	Elements of Civil Engineering & Mechanics A Section (CSE) (18CIV14)	90
8	Dec 2020- Apr 2021	Civil (UG)	Elements of Civil Engineering & Mechanics B Section (CSE) (18CIV14)	93
9	Apr- Aug 2021	Civil (UG)	Concrete Technology (18CV44)	100
10	Apr- Aug 2021	Civil (UG)	Quantity Surveying & Contracts Management (17CV81)	100
11	May- Aug 2021	Civil (UG)	Elements of Civil Engineering & Mechanics D Section (CSE) (18CIV24)	100
12	Sep 21– Feb 22	Civil (UG)	Quantity Surveying & Contracts Management (18CV71)	100
13	Sep 21 - Feb 22	Civil (UG)	Strength of materials (18CV32)	40
14	Sep 21 – Mar 22	Civil (UG)	Elements of Civil Engineering & Mechanics A Section (CSE) (21CIV14)	Awaiting results
15	Sep 21 - Mar 22	Civil (UG)	Concrete & Highway Materials Lab (18CVL58)	100
16	May-Sep 2022	Civil (UG)	Concrete Technology (18CV44)	--
17	May-Sep 2022	Civil (UG)	Elements of Civil Engineering & Mechanics D Section (AI & DS) (21CIV24)	--
18	May-Sep 2022	Civil (UG)	Fluid Mechanics & Hydraulic Machines Lab (18CVL48)	--

**List of FDP's attended (offline)**

1. Scientific Foundations of Health: 09/05/2022 to 11/05/2022 - 2days
2. Alternative Materials and Innovative Technologies in Concrete Construction: 16/03/2021 to 17/03/2021 -2days
3. Introduction to Linear Finite Element Analysis: 09/01/2017 - 13/01/2017 - 5 days





Dr. K. E. Prakash, B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405408  
Fax : (0831) 2405407

Ref.: VTU/Aca/2015-2016/A7/CI/ 9445

Date: 3 - FEB 2016

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from June 2016  
Ref : Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Amrutha D Shenoy
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : Civil Engineering
5. College/Institute : RVCE, Bengaluru
6. Supervisor : Dr. Ravindra R
7. Co-Supervisor : Dr. S Satyanarayana
8. Research Topic : "Investigations of The Effect of Natural Plasticizer on Properties of Concrete"
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDCV005	Construction Material & Technology
3.	14PHDCV001	Transportation & Highway Technology
4.	14PHDCV002	Structural Engineering

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 15<sup>th</sup> Feb 2016.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹'4000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

Registrar

To,

The candidate ✓

- Copy to,
1. The Research Centre /VTURRC
  2. The Supervisor/Co-Supervisor



## COURSE WORK COMPLETION CERTIFICATE

The candidate Ms. Amrutha D Shenoy bearing U.S.No. 1RV16PCJ03 has completed four course work subjects as a prerequisite for the Ph.D Programme.

Sl.No	Subject Code	Subject Title	Grade
1	14PHDCV005	Construction Material And Technology	C
2	14PHDRM	Research Methodology	C
3	14PHDCV001	Transportation And Highway Technology	C
4	14PHDCV002	Structural Engineering	B

*Annigeri*  
REGISTRAR (EVALUATION)  
*Annigeri*

Abbreviations for 2012 batch onwards : Grading System -S(Out Standing )-90-100 Marks,  
A(Excellent)- 75-89 Marks, B(Good)- 60-74 Marks, C(Satisfactory)- 50-59 Marks, Below 50 marks F(Fail)

Abbreviations for Candidate admitted before 2012 batch : Grading System -A- 76-100 Marks,  
B- 61-75 Marks, C- 50-60 Marks, Below 50 marks Not Eligible



# Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590 018 , Karnataka State, INDIA

Prof. Satish Annigeri Ph.D  
Registrar (Evaluation)

Phone: (0831)2498136  
Fax (0831)2405461

Ref. No: VTU/Exam/2019-20/ 25

Date: 18/March/2020 **21 MAY 2020**

## Office Note

Sub : COMPREHENSIVE VIVA-VOCE Examination Result - reg.

The result of the COMPREHENSIVE VIVA-VOCE Examination is as below;

S.No.	Name	Research Centre	Result
1	Amrutha D Shenoy 1RV16PCJ03	R V College of Engineering, Bangalore	Eligible

With this registration of the candidate is confirmed and the suggestion of the examiner made during the comprehensive viva-voce are enclosed here with.

Registrar (Evaluation)  
m/s Q10

### Copy to

- 1) Mr/Mrs. Amrutha D Shenoy, Research Scholar, Dept. of Civil Engineering, R V College of Engineering, Bangalore
- 2) The Principal , R V College of Engineering, Bangalore
- 3) Dr.Ravindra R. Associate Professor, Dept Of Civil Engineering, R.V.College Of Engg
- 4) Dr.S.Satyanarayana., Dept Of Chemistry, R.V.College Of Engineering Bangalore







**RV Educational Institutions**  
**RV College of Engineering**

Autonomous  
Institution Affiliated  
to Visvesvaraya  
Technological  
University, Belagavi

Approved by AICTE,  
New Delhi

**Department of Civil Engineering**

Phone: 080-68188185, 8186; e-mail: hod\_civil@rvce.edu.in

Date: 14.03.2022



Visvesvaraya Technological University  
Jnana Sangama, Belagavi 590018

**Open-Seminar-I**

Name of the Scholar	Amrutha D Shenoy
Date of Provisional Registration as per office order	Ref.: VTU/Aca/2015-2016/A7/CV9445, dated 3 <sup>rd</sup> Feb 2016
University Seat Number	1RV16PCJ03
Branch/Discipline/Program	Civil Engineering / Structural / Ph.D. by Research
Full - time / Part - time Registration	Part -time
Research Centre	Dept. of Civil Engineering, Rashtreeya Vidyalyaya College of Engineering (RVCE), Bengaluru
Name of the Research Supervisor	DR. Ravindra R
Name of the Co- Supervisor	DR. S Satyanarayana
Title of the research work	Investigations of the Effect of Natural Plasticizer on Properties of Concrete
Date of Open Seminar	14/03/2022
Place of Open Seminar	RV College of Engineering

Suggestions	<ol style="list-style-type: none"> <li>1. Work is satisfactory. Advised to continue with further work.</li> <li>2. Evaluation of modulus of elasticity may be avoided as it not directly related to the objectives of research.</li> </ol>
-------------	--

Sl.No.	Name	Signature
1.	Amrutha D Shenoy	<i>Amrutha D Shenoy</i> 14/3/22
2.	Dr.Radhakrishna, HOD, Dept. of Civil Engg., RVCE	<i>Dr. Radhakrishna</i> 14/3/22
3.	Dr Ravindra R, Associate Professor, Dept. Of Civil Engg., RVCE	<i>Dr. Ravindra R</i> 14/3/22
4.	Dr S Satyanarayana, Professor, Dept. of Chemistry, RVCE	<i>Dr. S Satyanarayana</i> 14/3/22
6.	Dr Raghunath S, Professor, Dept. of Civil Engg., BMSCE	online
7.	Dr Remya PN, GAT (Chemistry)	online
8.	Bhavana Jadhav (Ph.D Scholar)	online
9.	Rekha B (Ph.D Scholar)	online
10.	Naveena MP, Asst. Professor, KSSEM (Civil)	online
11.	Supriya M Badiger (PG Student, RVCE)	<i>Supriya M Badiger</i> 14/3/22

Signature of the Supervisor	<i>Ravindra R</i> 14/3/22
Signature of the Co-Supervisor	<i>S Satyanarayana</i> 14/3/22
Signature of Domain Expert (External)	— ONLINE —
Signature of Domain Expert (Internal)	<i>Dr. Radhakrishna</i> 14/3/22
Signature of Research Centre Head	<i>Dr. Radhakrishna</i> 14/3/22
Signature Head of Institute	<i>Subramanyulu</i> 14/3/22 Principal, RVCE, Bengaluru

Prof. & Head  
Dept. of Civil Engg.  
RV College of Engin  
Bengaluru-5600

Mysore Road, RV Vidyaniketan  
Post, Bengaluru - 560059,  
Karnataka, India

080 - 67178020/ 8161

principal@rvce.edu.in  
rvce.edu.in

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BENGALURU - 560 059

**Project Title: Utilization of Waste Materials ( Waste Foundry Sand, Plastic Waste, Agro-Waste) for making Sustainable Green Bricks/Blocks**

**VGST Scheme: K-FIST L2 : Karnataka Fund for Infrastructure Strengthening in Science & Technology (K-FIST L2)**

- 1) Certify that the College/Institution welcomes the participation of Dr.P N Jyothi as the Principal Investigator and Mrs. Amrutha D as the Co-Principal Investigator for the project, and that in the unforeseen and legitimate event of discontinuation by the Principal Investigator, the Co-Principal Investigator will accept/take full responsibility for completion of the project. Information to this effect, endorsed by me, will be promptly sent to VGST.
- 2) Certify that the Laboratory equipment and administrative facilities will be made available to the Investigators throughout the duration of the project.
- 3) The College/Institution will take the responsibility of all the financial and purchase procedures as per the prevailing Government norms within the allocated and approved budget.
- 4) The College/Institution shall provide timely statements of expenditure and utilization certificates of the funds received under this project/scheme in the prescribed format.

**Date:28/2/22**

  
**Signature of the Head of the**

**Institution**  
**Dr. K. RAMA NARASIMHA**  
Principal/Director  
K S School of Engineering and Management  
Bengaluru - 560 109



ciirc

JYOTHY CHARITABLE TRUST®

# JYOTHY INSTITUTE OF TECHNOLOGY

Thathaguni, Off Kanakapura Road, Bengaluru - 560 082

(Affiliated to Visvesvaraya Technological University, Belagavi)

(Approved by AICTE, New Delhi) ECE, CSE, ISE, ME & CIVIL Accredited by National Board of Accreditation (NBA) - New Delhi

## CERTIFICATE OF PARTICIPATION

This is to certify that

*Aruntha Dhiesaj*

From *St S School of Engineering and management*

has attended an offline three day Faculty Development Programme on "Scientific Foundations of Health" held during 9th May to 11th May 2022 jointly organized by Jyothy Institute of Technology, Bengaluru and Visvesvaraya Technological University, Belagavi.

*K. S. Srinivas*  
Convener

*[Signature]*  
Organizing Secretary

*[Signature]*  
Principal



No: ATAL/2021/1630597362



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that **AMRUTHA DHIRAJ**, Assistant Professor of KS School of Engineering and Management participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Five days Faculty Development Program on Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings" from 13/09/2021 to 17/09/2021 at Dayananda Sagar Academy of Technology & Management.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Coordinator





# Certificate



This is to certify that **AMRUTHA DHIRAJ** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on “**Recent Advances in Civil Engineering**” held during **29.12.2021** to **04.01.2022** organized by **Jyothy institute of Technology, Bengaluru, Karnataka.**

*[Signature]*

Director (FDC)  
AICTE, ND

*[Signature]*

Executive Secretary  
ISTE, ND

*[Signature]*

Program Coordinator  
JIT, Bengaluru

*[Signature]*

Principal  
JIT, Bengaluru



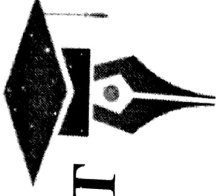


KAMMAVARI SANGHAM (R) - 1952

# K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109

Department of Civil Engineering



## CERTIFICATE OF PARTICIPATION

This is to certify that

**Ms. Amrutha Dhiraj**

has attended the Faculty Development Programme

on

“Resource recovery and reuse : waste to wealth”  
from 17<sup>th</sup> -21<sup>st</sup> January of the year 2022.

W. K. S. S.

Head of the Department

Principal

Principal



## STAFF SELF APPRAISAL REPORT

2021-2022

## KSSEM

Field	Data	SCORE
Name	SHASHI PRASAD N	
Present Address, Mob.No., e-mail id.	Door No 302, Sai Nilayam, 2 <sup>nd</sup> Floor , Sri Krishna Residency, 14 <sup>TH</sup> main JP Nagar 7 <sup>th</sup> Phase, Bengaluru-560078 Mob No:9632081005 E-Mail- Shashiprasad@kssem.edu.in	
Age and Date of Birth	30 and 25/05/1991	
Qualification	M.Tech in Structural Engineering	
Designation and Department	Assistant Professor and Civil Engineering	
Teaching Experience (After PG)	4 Years	
Other Experience(If any)	3 Years as Lecturer	
List of Subjects Taught till date (use separate sheet if necessary)	<ol style="list-style-type: none"> <li>1. Municipal &amp; Industrial Wastewater Engg- 98%.</li> <li>2. Hydrology and Irrigation Engg (2018-19) – 100%</li> <li>3. Environmental Engineering Laboratory – 100%.</li> <li>4. Advanced Surveying (2018-19) – 90%.</li> <li>5. Element of Civil Engineering – 78%.</li> <li>6. Extensive Survey Project (2018-19)- 100%.</li> <li>7. Hydrology and Irrigation Engg (2018) – 96%.</li> <li>8. Mechanics of Deformable Bodies – 100%.</li> <li>9. Building Planning and Drawing Using Auto CADD- 95%.</li> <li>10. Advanced Surveying -100%.</li> <li>11.Quantity Surveying &amp; Contracts Management – 100%.</li> <li>12. Water Supply &amp; Treatment Engineering – 100%.</li> <li>13. Extensive Survey Project- 100%.</li> <li>14. Municipal and Industrial waste water Engineering – 89%.</li> <li>15. Basic Surveying – 61%.</li> <li>16. Building Planning and Drawing Using</li> </ol>	

	<p>Auto CADD- 89%.</p> <p>17. Alternative Building Materials-100%</p> <p>18. Advanced Structural Analysis-60%</p> <p>19. Structural Lab – I-100%</p> <p>20. Design of Concrete Bridges- 100%</p>	
<p>Number of FDPs attended since joining service (Attach Separate List)</p>	<p>1) Research Proposal Writing and opportunities in the field of Science, Engineering and Management.</p> <p>2) Five Day Online FDP on “Smart Solutions in Civil Engineering”.</p> <p>3). Modern Approach for Structural Design and Construction (MASDAC-2021).</p> <p>4). Sustainable and Strengthening of Low Cost Housing for Rural India.</p> <p>5). Earthquake Analysis and Design using latest Civil Engineering software’s.</p> <p>6). Resource recovery and reuse: waste to wealth.</p> <p>7). Five days Faculty Development Program on Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings</p> <p>8). Sustainable Practices for Conservation and Management of Water (SPCMW – 2021).</p>	--
<p>*Subjects taught in the Assessment Year and percentage pass (Both Theory &amp; Practical’s) (10marks for each x Percentage) If Online please indicate.</p>	<p>Basic Surveying- 80%</p> <p>Computer Aided Building Planning &amp; Drawing -100%</p> <p>Surveying Practice – 100%</p> <p>Design of Concrete Bridges -100%</p>	38/40
<p>Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)</p>	<p>1. Smart Irrigation system using IoT in Drip irrigation.</p>	05/10
<p>Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)</p>	<p>1.The study the response of multi storied building with shear wall at different locations by seismic analysis</p>	05/10
<p>Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.</p>	100%	5/5
<p>Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify.</p>	94 %	4.7/5

\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	6 <sup>th</sup> Sem (U.G) Students	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	Nil	0/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1. Five days Faculty Development Program on Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings 2. Earthquake Analysis and Design using latest Civil Engineering software's.	10/10
Financial Assistance received during current year for attending FDPs	Nil	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Preparing for writing the research Proposal	0/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	Nil	0/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Effective Utilization of VTU Subscribed e-Resources anywhere, anytime, any device using KSSEM Digital Library powered by Knimbus. 2. Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach.	10/10
Financial Assistance received during current year for attending such events.	Nil	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	0/5
Details of Patents Applied for (If any) One application 5 marks	Nil	0/5



Provide Details. Academic Programs organized and supported during current year. (Only FDP/Workshop/Seminar / Conference) . Do not include Webinars.	1. Two Day Total Station Training Program for K S Polytechnic Students (Dept. of Civil Engg.) 2. Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach (FDP)	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	NPTEL Design of Concrete Bridges	5/5 3/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	<a href="https://onlinecourses.nptel.ac.in/noc19ce23/preview">https://onlinecourses.nptel.ac.in/noc19ce23/preview</a> NPTEL –Design of Concrete Bridges Surveying: <a href="https://nptel.ac.in/courses/105104101">https://nptel.ac.in/courses/105104101</a>	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Smart Irrigation system using IoT in Drip irrigation. (VTU financial assistance)	5/5 3/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs. 5000 from (VTU financial assistance).	5/5 4/5
Consultancy Revenue Generated	Nil	0/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc. (2marks for each responsibility)	1) 1) NAAC Criteria 2 Dept. Coordinator 2) Website Coordinator 3) Test coordinator 4) 2 <sup>nd</sup> Year UG Class Teacher 5) Surveying Lab In charge	10/10 6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)(2marks for first membership & 3 marks for second membership)	Nil	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Disciplinary Committee Member	5/5 3/5
Contribution towards Branding, Admissions, etc [Marks to be	1. Telephone calling duty 2. Supported for In plant Training	10/10 6/10

granulated based on the responsibility and participation by the HOI.]	for Diploma students 3.DCET Coaching for Polytechnic Students	
TOTAL		135.7

$$136 - 15 = \frac{121}{190}$$

Date: 13/07/2022

*[Signature]*  
Signature of faculty

Comments from the HOD:

- > very hard working
- > responsible in overseeing Practical Examination marks entry, other Dept activities
- > class Teacher responsibilities.
- > Asset to Dept

*[Signature]*  
Signature of the HOD

Comments of the Principal after the discussion:

Serious efforts are required to register for PhD.  
Academic Performance is satisfactory.

*[Signature]*  
Signature of the Principal

CEO

No: ATAL/2021/1632909657



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that SHASHI PRASAD N, Assistant Professor of K S SCHOOL OF ENGINEERING AND MANAGEMENT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Earthquake Analysis and Design using latest Civil Engineering software's" from 18/10/2021 to 22/10/2021 at Coimbatore Institute of Technology.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Coordinator





No: ATAL/2021/1630644778



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training and Learning (ATAL) Academy

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Advisor-I, ATAL Academy  
Mamta Rani Agarwal

Coordinator





**KSSEM**



# *Certificate of Participation*

# knimbus

This is to certify

SHASHI PRASAD N

Participated in Knimbus Online Training on "Effective Utilization of VTU Subscribed e-Resources Anywhere, Anytime, Any Device Using KSSEM Digital Library Powered by Knimbus" held on 23<sup>rd</sup> August' 2021.

  
Mr. Venkatesh V  
Trainer

  
Mr. Tarun Arora  
Chief Executive Officer

**STAFF SELF APPRAISAL REPORT****2021-2022****KSSEM**

Field	Data	SCORE
Name	PRASHANTH M	---
Present Address, Mob.No., e-mail id.	No109, 6 <sup>th</sup> cross, 23 <sup>rd</sup> main road, 2 <sup>nd</sup> phase JP Nagar, Bengaluru-560078	
Age and Date of Birth	30Yrs. 15/06/1992	
Qualification	B.E, MTech.	
Designation and Department	Assistant Professor	
Teaching Experience (After PG)	5Yrs 5 Months	
Other Experience(If any)	--	
List of Subjects Taught till date (use separate sheet if necessary)	Separate sheet attached.	
Number of FDPs attended since joining service (Attach Separate List)		--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1.Design of RCC and steel structures- 92% 2.Construction management and Entrepreneurship-93% 3.Advance detailing lab-100% 4.Design of steel structural elements- 5.Analysis of Indeterminate structures- 6.Software application lab-	38/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Effect of wind on tall building frames on different aspect ratio. 2. Effects of wind loads on tall buildings in different terrain category. 3. Analysis and design of concrete check dam.	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. Analysis of step back set back building resting on sloping ground by Etabs 2. Analysis of double barrel roof for the effect of temperature by SAP2000	10/10
Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. (52/52x5)=5 2. (50/50x5)=5	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to		4.68/5



verify.

\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	9	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.		0/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams-v 2. Conduction of Theory exams-v 3. Paper Setting-v 4. Evaluation-v	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1. Modern approach for structural design and construction (MASDAC-2021) 2. Green technology & Sustainability engineering. (13/9/2021-17/9/2021) 3. Water – A precious natural resource (22/03/2022-26/03/2022)	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage and for every claim]  Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	3/10

Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1.Effect of sodium Hydroxide molarity on geopolymer concrete beams	5/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Effective utilization of VTU subscribed e-resources anywhere, anytime, any device using KSSEM digital library powered by Knimbus (23/8/2021) 2. Digital transformation in structural analysis (11/9/2021)	10/10
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide (Reasons for not registering)	NO	-
Research Scholars registered with details	NO	0/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	NO	0/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	1. Two weeks in plant Training Program to KS Polytechnique students 2.Two days national level seminar organized by department of civil engineering	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	NO	0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	NPTEL videos on Steel structure designs used for the subject design of steel structures.	5/5 3/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	NO	0/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs.	0/5
Consultancy Revenue	Rs.5000	5/5 3/5

Generated		
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	<ol style="list-style-type: none"> <li>1. Department Industrial visit coordinator.</li> <li>2. Naac Criteria 5 coordinator.</li> <li>3. Department Internship Coordinator</li> <li>4. Department Library coordinator.</li> <li>5. Department LIC coordinator.</li> </ol>	10/10 6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	NO	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	<ol style="list-style-type: none"> <li>1) Event Coordinator for Cooking without fire -Students</li> <li>2) Event Coordinator for Cooking without fire -Faculty</li> <li>3) Discipline committee coordinator from department</li> </ol>	5/5 2/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	<ol style="list-style-type: none"> <li>1) Admission committee coordinator</li> <li>2) Represented KSSEM at TV9 education fair conducted on sep 3,4,5 2021.</li> </ol>	10/10 6/10
<b>TOTAL</b>		<b>143.68/190</b>

Date: 12/02/2022

$$144 - 15 = \frac{129}{190}$$

*[Signature]*  
Signature of faculty

Comments from the HOD:

Sincere, takes initiative, organized model making workshop, was active in the dept, Regd for Ph.D.

Communications to improve

*[Signature]*  
Signature of the HOD

Comments of the Principal after the discussion:



- (1) Communication in the class to be improved.
- (2) Teaching abilities to be improved

*I. S. Rana*  
Signature of the Principal

CEO

SL No.	Year	Dept.	Subject	Class Percentage.
1.	Jan-Jun 2017	Civil (UG)	Environmental engineering-1 (10CV62)	94.6
2.	Jan-Jun 2017	Arch	Building structures IV (15ENG 4.5)	100
3.	Jan-Jun 2017	M.Tech	Structures lab-2 (16CSEL26)	100
4.	Jan-Jun 2017	M.Tech	Design concepts of substructures(16CSE25)	83.33
5.	Aug-Dec 2017	Civil (UG)	Concrete and highway materials lab (10CVL78)	100
6.	Aug-Dec 2017	M.Tech	Computational structural mechanics (16CSE11)	100
7.	Aug-Dec 2017	Arch	Building structures- III (15ENG3.5)	100
8.	Jan-Jun 2018	Civil (UG)	Design and drawing of steel structures( 10CV82)	100
9.	Jan-Jun 2018	Civil (UG)	Computer aided detailing lab (15CVL68)	100
10.	Jan-Jun 2018	Arch	Building structures IV (15ENG4.5)	95
11.	Aug-Dec 2018	Civil (UG)	Strength of materials (17CV32)	56
12.	Aug-Dec 2018	Civil (UG)	Computer aided detailing lab (15CVL78)	100
13.	Aug-Dec 2018	Civil (UG)	Repair and rehabilitation of structures. (15CVL753)	100
12.	Jan-Jun 2019	Civil (UG)	Design of steel structural elements ( 15CV62)	98
13.	Jan-Jun 2019	M.Tech	Design of tall structures (10CSE253)	100
14.	Jan-Jun 2019	M.Tech	Advanced design of steel structures.	100
15.	Jan-Jun 2019	Civil (UG)	Software application lab (10CVL67)	100
16.	Aug-Dec 2019	Civil (UG)	Repair and rehabilitation of structures. (17CVL753)	100
17.	Aug-Dec 2019	M.Tech	Computational structural mechanics (16CSE11)	100
18.	Aug-Dec 2019	Civil (UG)	Computer aided detailing lab (17CVL68)	100
19.	Jan-Jun 2020	Civil (UG)	Design of steel structural elements ( 17CV62)	100
20.	Jan-Jun 2020	M.Tech	Design of High rise structures (17CSE253)	100
21.	Jan-Jun 2020	M.Tech	Computational structural mechanics (16CSE11)	100
22.	Sep-	Civil	Construction management and	84.21

	Dec2020	(UG)	Entrepreneurship (18CV51)	
23.	Sep- Dec2020	Civil (UG)	Repair and rehabilitation of structures. (17CVL753)	94.64
24.	Sep- Dec2020	Civil (UG)	Survey Practise (18CVL57)	100
25.	Jan-July 2021	M.Tech	Matrix method of structural analysis	82
26.	Jan-July 2021	M.Tech	Design of steel structural elements (18CV61)	100
27.	Jan-July 2021	M.Tech	Design of tall structures (20CSE253)	100
28.	Jan-July 2021	Civil (UG)	Software application lab	100
30.	Jan-July 2021	Civil (UG)	EVS	100
31.	Sep- Dec2021	Civil (UG)	Design of RCC and steel structures	92
32.	Sep- Dec2021	Civil (UG)	Construction management and Entrepreneurship-	93
33.	Sep- Dec2021	Civil (UG)	Advance detailing lab	100



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## Certificate of Publication

DICKENSIAN  
JOURNAL

Paper Id : DKJ/2398

This is to certify that the paper titled  
EFFECT OF SODIUM HYDROXIDE MOLARITY ON FRACTURE  
BEHAVIOUR OF GEOPOLYMER CONCRETE BEAMS

Author by

Prashanth M

From

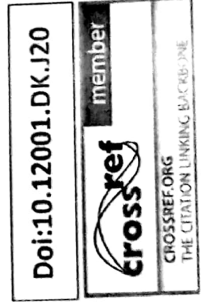
KS School of Engineering and Management, Bangalore, Karnataka, India.

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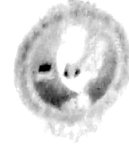
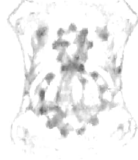
Dickensian Journal, Volume 22, Issue 6, June 2022.



UGC APPROVED JOURNAL



Steve Rojer  
Editor-In-Chief  
DICKENSIAN



# Bangalore Institute of Technology

(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Accredited by NBA & Recognized by Govt. of Karnataka)  
K R Road, V V Pura, Bengaluru-560004

DEPARTMENT OF CIVIL ENGINEERING



"Five Days Faculty Development Program  
22<sup>nd</sup> March 2022 to 26<sup>th</sup> March 2022"



## Water - A Precious Natural Resource

Sustainability towards surface and ground water conservation



(WWD-BIT-2022)



### Certificate of participation

This is to certify that Dr./Mr./Ms./Mrs./Prof. Mr PRASHANTH M from

KS SCHOOL OF ENGINEERING AND MANAGEMENT has participated in "Five Days Faculty Development Program 22<sup>nd</sup> March 2022 to 26<sup>th</sup> March 2022" (WWD-BIT-2022)

jointly organized by Department of Civil Engineering-BIT-Bangalore, Department of Civil Engineering-UVCE-Bangalore, Water Resources Department-BIS-New Delhi, Water Institute Civil Engineering-UVCE-Bangalore, Environmental Engineers Association-Bangalore.

Dr H B Balakrishna  
Prof & Head  
Department of Civil Engineering  
BIT, Bangalore

Dr M U Aswath  
Principal  
BIT, Bangalore

Made for free with Certify'em



**PRESIDENCY UNIVERSITY**



Presidency University Act, 2013 of the Karnataka State of 2013 | Established under Section 20(1) of UGC Act, 1956  
Approved by AICTE, New Delhi



Department of Civil Engineering, Presidency University, Bangalore

## Certificate of Participation

PU-CIV-FORCE-13141

This is to certify that

**Mr. Prashanth M**

from

**K. S. School of Engineering and Management**

has participated in a webinar on "**Digital Transformation in Structural Analysis**" delivered by

**Mr. Pradeep Kallur**, Director, Medini and **Ms. Manisha P**, Structural Design Engineer on **11 September 2021**

organised by Department of Civil Engineering and FORCE - Forum of Civil Engineering,

Presidency University, Bangalore in association with Medini, Bangalore

**Dr. Nakul Ramanna**  
Head, Department  
of Civil Engineering

**Dr. S B Anadinni**  
Associate Dean,  
SoE

**Dr. Abdul Sharief**  
Dean,  
SoE

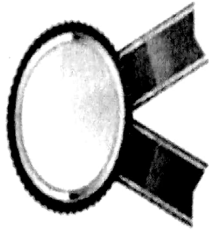
**Dr. A M Surendra Kumar**  
Pro-Vice Chancellor and  
Controller of Examination







**KSSEM**  
KARNATAKA STATE LIBRARY



# *Certificate of Participation*

# knimbus

This is to certify

**Prashanth M**

**Participated in Knimbus Online Training on "Effective Utilization of VTU Subscribed e-Resources Anywhere, Anytime, Any Device Using KSSEM Digital Library Powered by Knimbus" held on 23<sup>rd</sup> August' 2021.**

  
Mr. Venkatesh V  
Trainer



Mr. Tarun Arora  
Chief Executive Officer



RAJYA VOKKALIGARA SANGHA

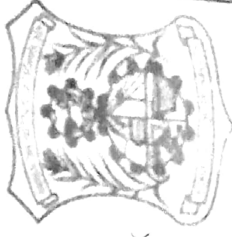
# BANGALORE INSTITUTE OF TECHNOLOGY

Affiliated to V.T.U.-Belagavi, "Approved by AICTE" Accredited by NBA (All UG Programs and MCA) K

R Road, V V Puram, Bangalore-560004

Email: principalbit4@gmail.com Ph: +91-080-26615865, 26613237 Fax: +91-080-22426796

Web: bit-bangalore.edu.in



## E-Certificate of Participation

This is to certify that Mr/Ms/Dr/Prof. Prashanth M of \_\_\_\_\_

K S School of Engineering Management, Bangalore has participated in  
One Week Faculty Development Program on "Modern Approach for Structural  
Design and Construction (MASDAC-2021)" Organised by Department of Civil  
Engineering, Bangalore Institute of Technology, from 26<sup>th</sup> April to 1<sup>st</sup> May 2021.

Kavyashree R R  
Organising Secretary

Dr. N. Jeevan  
Organising Secretary

Dr. H B Balakrishna  
Professor & Head

Dr. M U Aswath  
Principal

## STAFF SELF APPRAISAL REPORT

2021-2022

## KSSEM

Field	Data	SCORE
Name	MANJUNATH B	
Present Address, Mob.No., e-mail id.	#21, opposite to SBI ATM, Venkataswamappa layout, AG'S layout, Arehalli, Subramanyapura post, Bengaluru-560061 Mob No. : 9742766727 Email ID: manjunath.b@kssem.edu.in	---
Age and Date of Birth	29 yrs and 12/08/1992	
Qualification	B.E, M.Tech	
Designation and Department	Assistant Professor and Department of Civil Engineering	
Teaching Experience (After PG)	5 years 6 months	
Other Experience(If any)	-	
List of Subjects Taught till date (use separate sheet if necessary)	Separate sheet attached.	
Number of FDPs attended since joining service (Attach Separate List)	Separate sheet attached.	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	<ol style="list-style-type: none"> <li>1. Design of RC Structural Elements (86%)</li> <li>2. Building Materials and construction (90%)</li> <li>3. Surveying Practice (100%)</li> <li>4. Computer Aided Building Planning &amp; Drawing (100%)</li> <li>5. Alternative Building Materials</li> <li>6. Applied Hydraulics</li> <li>7. Software Application Lab</li> </ol>	37.6/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	<ol style="list-style-type: none"> <li>1. Manufacture and study the strength properties of different blocks using straw bale</li> <li>2. Experimental study on geo-polymer and normal block masonry with and without horizontal reinforcement</li> </ol>	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	<ol style="list-style-type: none"> <li>1. Effect of openings in shear wall on seismic response of structures</li> <li>2. Effect of viscous damper in RC frame structure to reduce seismic responses</li> </ol>	10/10



Percentage of classes held ( No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1.(65/65x5)=5 2.(45/45x5)=5 3. (12/12x5)=5 4. (13/13x5)=5	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	1. 98.82% 2. 98.73%	4.94/5

\*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	20	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	1. Evaluation	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams - ✓ 2. Conduction of Theory exams - ✓ 3. Paper Setting - ✓ 4. Evaluation - ✓	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) Scientific Foundations of health (9/5/22-11/5/22) 2) Sustainable design with Pre-Engineered Techniques- An approach towards Eco-Friendly buildings (ATAL – 13/9/21-17/9/21) 3) Resource recovery and reuse: waste to wealth (17/1/22-21/1/22) 4) Advancements in the field of civil engineering : theory and practice (21/2/22-26/2/22) 5) Water – A precious Natural resource (22/3/22-26/3/22)	10/10
Financial Assistance received during current year for attending FDPs	Rs. 300/-	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	Preparing for ETR	0/10

Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. 2.	0/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Digital Transformation in Structural Analysis (11/9/21) 2. Design and construction of steel structures (6/6/22 – 10/6/22)	10/10
Financial Assistance received during current year for attending such events.	--	--
Registered as Research Guide (Reasons for not registering)	NA	-
Research Scholars registered with details	NA	0/5
Details of Patents Applied for (If any) One application 5 marks. Provide Details.	NA	0/5
Academic Programs organized and supported during current year. (Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	1. 2 day National Seminar on "Performance of Climatic Responsive Buildings-A Qualitative and Quantitative Approach (10/6/22 – 11/6/22) 2. "Build your Dream" Model making competition for Various polytechnic college students held on 7/7/22 3. 2 weeks Inplant Training Programme for K S polytechnic Students –Civil Engineering 4. 1 week DCET coaching for polytechnic students	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.		0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Downloaded and Showed videos to students regarding subject from online and NPTEL platform 1. <a href="https://nptel.ac.in/courses/105102088">https://nptel.ac.in/courses/105102088</a> 2. <a href="https://nptel.ac.in/courses/105105105">https://nptel.ac.in/courses/105105105</a> 3. <a href="https://nptel.ac.in/courses/105107122">https://nptel.ac.in/courses/105107122</a>	5/5

Details of Project Proposal submitted during the current year. (At least one) Provide Details	1. Submitted Project proposal for KSCST titled "Manufacture and study the strength properties of different blocks using straw bale"	5/5 3/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	--	0/5
Consultancy Revenue Generated	Rs. 10,000/-	5/5 2/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator, , Accreditation etc.(2marks for each responsibility)	1) NAAC Criterion 4 Coordinator. 2) Placement Coordinator 3) IA coordinator 4) Department LIC coordinator 5) Department Library Coordinator	10/10 6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE ..... ) (2marks for first membership & 3 marks for second membership)	NA	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Department Cultural Coordinator	5/5 3/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Admission committee coordinator, participated in the Education Mela in palace grounds as a College representative. 2. Visited all PU colleges in and around Kanakapura and promoted our KSGI	10/10 7/10
<b>TOTAL</b>		<b>142.54/190</b>

$148 - 14 = \frac{129}{190}$   
 Maunna H. S.

Date: 12/07/2022

Signature of faculty



**Comments from the HOD:**

Sincere, Enterprising, Takes initiative  
and Mentor to students, Good Teaching skills  
advised to register for PhD Program. involves in  
admission  
Recommended  
Asset to Dept

W. Kelle  
Signature of the HOD 14/7/2022

**Comments of the Principal after the discussion:**

Advised to register for PhD at the earliest.  
Academic Performance is satisfactory.

Signature of the Principal

CEO

List of Subjects Taught till date and percentage pass

SL No.	Year	Dept.	Subject	Class Percentage.
1.	Jan-Jun 2017	Civil (UG)	Alternative building materials (10CV662)	97.22
2.	Jan-Jun 2017	Civil (UG)	Design and drawing of RC structures (10CV62)	98.21
3.	Jan-Jun 2017	Civil (UG)	Geotechnical Engineering Lab (10CVL67)	100
4.	Jan-Jun 2017	Civil (PG)	Design concepts of substructures (16CSE25)	83.33
5.	Aug-Dec 2017	Civil (UG)	Building materials and construction (15CV36)	94
6.	Aug-Dec 2017	Civil (UG)	Geotechnical Engineering Lab (15CVL57)	100
7.	Aug-Dec 2017	Civil (PG)	Special concrete (17CSE152)	100
8.	Jan-Jun 2018	Civil (UG)	Advanced concrete technology (10CV81)	100
9.	Jan-Jun 2018	Civil (UG)	Design and drawing of steel structures (10CV82)	100
10.	Jan-Jun 2018	Civil (UG)	Software application lab (15CVL67)	100
11.	Jan-Jun 2018	B.Arch	Building structures II (15ENG2.5)	95
12.	Jan-Jun 2018	Civil (PG)	Design of Masonry Structures (16CSE424)	100
13.	Aug-Dec 2018	Civil (UG)	Building materials and construction (17CV36)	89
14.	Aug-Dec 2018	Civil (UG)	Design of RC structural Elements (15CV51)	83
15.	Aug-Dec 2018	Civil (UG)	Building materials and testing lab (17CVL37)	97
16.	Aug-Dec 2018	Civil (UG)	Computer aided detailing of structures lab (15CVL77)	100
17.	Jan-Jun 2019	Civil (UG)	Concrete technology (17CV44)	100
18.	Jan-Jun 2019	Civil (PG)	Design of Masonry Structures (17CSE424)	100
19.	Jan-Jun 2019	Civil (UG)	Software application lab (15CVL67)	100
20.	Aug-Dec 2019	Civil (UG)	Design of RCC & Steel structures (15CV72)	100
21.	Aug-Dec 2019	Civil (UG)	Design of RC structural Elements (17CV51)	92
22.	Aug-Dec 2019	Civil (UG)	Computer aided detailing of structures lab (15CVL77)	100
23.	Aug-Dec 2019	Civil (PG)	Special concrete (18CSE152)	100
24.	Jan-Jun 2020	Civil (UG)	Concrete technology (18CV44)	100
25.	Jan-Jun 2020	Civil (UG)	Software application lab (17CVL67)	100
26.	Jan-Jun 2020	Civil (UG)	Extensive Survey project (17CVL68)	100
27.	Sep-Dec 2020	Civil (UG)	Design of RC structural Elements (18CV51)	87

28.	Sep-Dec 2020	Civil (UG)	Design of RCC & Steel structures (17CV72)	98
29.	Sep-Dec 2020	Civil (UG)	Computer aided detailing of structures lab (17CVL77)	100
30.	Sep-Dec 2020	Civil (UG)	Concrete & Highway materials lab (18CVL58)	100
31.	Sep-Dec 2020	Civil (PG)	Advanced Structural Analysis (20CSE11)	75
32.	Sep-Dec 2020	Civil (PG)	Structural Engg. Lab 1 (20CSEL16)	100
33.	Jan- July 2021	Civil (UG)	Pavement Design (17CV833)	100
34.	Jan- July 2021	Civil (UG)	Hydrology and Irrigation Engineering (18CV63)	100
35.	Jan- July 2021	Civil (UG)	Extensive Survey project (18CVEP68)	100
36.	Sep – Feb 2021-22	Civil (UG)	Design of RC structural Elements (18CV51)	86
37.	Sep – Feb 2021-22	Civil (UG)	Building materials and construction (18CV34)	90
38.	Sep – Feb 2021-22	Civil (UG)	Surveying Practice (18CVL57)	100
39.	Sep – Feb 2021-22	Civil (UG)	Computer Aided Building Planning & Drawing (18CVL37)	100
40.	Apr-July 2022	Civil (UG)	Alternative Building Materials (18CV643)	--
41.	Apr-July 2022	Civil (UG)	Applied Hydraulics (18CV43)	--
42.	Apr-July 2022	Civil (UG)	Software applications lab (18CVL66)	--
43.	Apr-July 2022	Civil (PG)	Structural Engineering lab – 1 (20CSEL16)	--

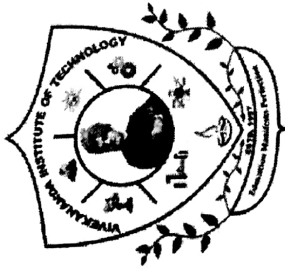


JANATHA EDUCATION SOCIETY (R)

# VIVEKANANDA INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka, Affiliated to VTU, Belagavi  
Gudimavu, Kumbalagodu Post, Kengeri Hobli, Bengaluru-560 074

Mobile: +91 7625013735 | [www.vitb.ac.in](http://www.vitb.ac.in)



## SILVER JUBILEE CELEBRATION - VKIT

This certificate is presented to

**Mr. MANJUNATH B**

for his/her active participation in 5-Day National Webinar on

"Design & Construction of Steel Structure"

organized by Department of Civil Engineering, Vivekananda Institute of Technology, Bengaluru  
in association with INSTITUTE FOR STEEL DEVELOPMENT & GROWTH (INSDAG) and  
CONSTRUCTION INDUSTRY DEVELOPMENT ACADEMY from 6th to 10th JUNE 2022.

*Harish T S*

Organizing Secretary

**Mr. Harish T S**

Assistant Professor,  
Civil Department, VKIT

*C.S. Shashikumar*

Convener

**Dr. C S Shashikumar**

Associate Professor & HOD,  
Civil Department, VKIT

*Er. K L Mohan Rao*

Convener

**Er. K L Mohan Rao**

President  
Construction Industry  
Development Academy

*Mr. A K Samanta*

Convener

**Mr. A K Samanta**

GM-Mechanical, INSDAG





JYOTHY CHARITABLE TRUST<sup>®</sup>

# JYOTHY INSTITUTE OF TECHNOLOGY

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(Affiliated to Visvesvaraya Technological University, Belagavi)

(Approved by AICTE, New Delhi) ECE, CSE, ISE, ME & CIVIL Accredited by National Board of Accreditation (NBA) - New Delhi

## CERTIFICATE OF PARTICIPATION

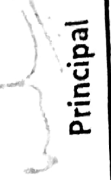
This is to certify that

Manjunath B.

From Sh. S. School of Engineering and Management

has attended an offline three day Faculty Development Programme on "Scientific Foundations of Health" held during 9th May to 11th May 2022 jointly organized by Jyothy Institute of Technology, Bengaluru and Visvesvaraya Technological University, Belagavi.

  
Organizing Secretary

  
Principal

  
Convener



# Bangalore Institute of Technology

(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Accredited by NBA & Recognized by Govt. of Karnataka)

K R Road, V V Pura, Bengaluru-560004

DEPARTMENT OF CIVIL ENGINEERING



"Five Days Faculty Development Program  
22<sup>nd</sup> March 2022 to 26<sup>th</sup> March 2022"

## Water - A Precious Natural Resource

Sustainability towards surface and ground water conservation



(WWD-BIT-2022)



### Certificate of participation

This is to certify that Dr./Mr./Ms./Mrs./Prof. Mr. MANJUNATH B from

K. S. School of Engineering and has participated in "Five  
Management  
Days Faculty Development Program 22<sup>nd</sup> March 2022 to 26<sup>th</sup> March 2022" (WWD-BIT-2022)

jointly organized by Department of Civil Engineering-BIT-Bangalore, Department of Civil  
Engineering-UVCE-Bangalore, Water Resources Department-BIS-New Delhi, Water Institute  
Civil Engineering-UVCE-Bangalore, Environmental Engineers Association-Bangalore.

Dr H B Balakrishna  
Prof & Head  
Department of Civil Engineering  
BIT, Bangalore

Dr M U Aswath  
Principal  
BIT, Bangalore

Made for free with Certify'em





# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that **Manjunath B**, Assistant Professor of **K. S. School of Engineering and Management** participated & completed successfully **AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Five days Faculty Development Program on Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings"** from **13/09/2021 to 17/09/2021** at **Dayananda Sagar Academy of Technology & Management**.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Coordinator



**PRESIDENCY UNIVERSITY**



Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956  
Approved by AICTE, New Delhi

Department of Civil Engineering, Presidency University, Bangalore

PU-CIV-FORCE-13141

## Certificate of Participation

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organised by Department of Civil Engineering and FORCE - Forum of Civil Engineering,

Presidency University, Bangalore in association with Medini, Bangalore

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Associate Dean,  
SoE

**Dr. Abdul Sharief**  
Dean,  
SoE

**Dr. A M Surendra Kumar**  
Pro-Vice Chancellor and  
Controller of Examination

**Dr. Nakul Ramanna**  
Head, Department  
of Civil Engineering



**STAFF SELF APPRAISAL REPORT****2021-2022****KSSEM**

Field	Data	SCORE
<b>Name</b>	<b>SAISUSHMA B A</b>	
<b>Present Address, Mob.No., e-mail id.</b>	<b>#54, SHIVA KRUPA, 1A CROSS, CANARA BANK COLONY, CHIKKALASANDRA, BENGALURU- 560061. Mob No:9880683009 E-Mail- saisushma@kssem.edu.in</b>	
<b>Age and Date of Birth</b>	<b>26 and 28/05/1996</b>	
<b>Qualification</b>	<b>M.Tech in Highway Technology</b>	
<b>Designation and Department</b>	<b>Assistant Professor and Civil Engineering</b>	
<b>Teaching Experience (After PG)</b>	<b>1 Year 10 Months</b>	
<b>Other Experience(If any)</b>	<b>NIL</b>	
<b>List of Subjects Taught till date (use separate sheet if necessary)</b>	<ol style="list-style-type: none"> <li>1. Urban Transport Planning (2019-20) - 100%</li> <li>2. Railway, Harbour, Tunnel and Airport planning (2019-20) - 100%</li> <li>3. Geo Technical engineering lab (2019-20) -100%</li> <li>4. Pavement design (2019-20) -100%</li> <li>5. Highway engineering (2019-20) -100%</li> <li>6. Fluid mechanics lab(2019-20) - 100%</li> <li>7. Urban Transport Planning (2021-22) - 98.11%</li> <li>8. Highway engineering (2021-22) -90.47%</li> <li>9. Concrete and highway materials lab (2021-22) -100%</li> <li>10. Elements of civil engineering and mechanics (2021-22)</li> <li>11. Pavement design (2021-2022)</li> <li>12. Environmental Engineering Laboratory-(2021-2022)</li> </ol>	---
<b>Number of FDPs attended since joining service (Attach Separate List)</b>	<b>1. "Resource Recovery And Reuse: Waste To Wealth"</b>	--



	<p>2. "An Overview Of Teaching Techniques In Innovation And Design Thinking"</p> <p>3. "Sustainable Energy Efficient Green Technology"</p>	
<p>*Subjects taught in the Assessment Year and percentage pass (Both Theory &amp; Practical's) (10marks for each x Percentage) If Online please indicate.</p>	<p>1. Urban Transport Planning -98.11%</p> <p>2. Highway engineering -90.47%</p> <p>3. Concrete and highway materials lab - 100%</p> <p>4. Elements of civil engineering and mechanics- 80%</p>	38.85/40
<p>Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)</p>	<p>1. Transit Oriented Development-A Case Study Of Bengaluru Metro Line Phase 1.</p>	05/10
<p>Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)</p>	NIL	0/10
<p>Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.</p>	100%	5/5
<p>Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify.</p>	96 %	4.83/5

\*Marks to be awarded for subjects for which end exam was conducted

<p>Details of students mentored during current assessment year. (Furnish details)</p>	1 <sup>st</sup> Semester (U.G) Students	--
<p>Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.</p>	NIL	0/2
<p>Details on Examination related Activity (2marks each) Marks only for external responsibility.)</p>	<p>1. Conduction of Theory exams.</p> <p>2. Paper Setting.</p>	4/8
<p>List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify</p>	<p>1. Resource Recovery And Reuse: Waste To Wealth"</p> <p>2. "An Overview Of Teaching</p>	10/10

	Techniques In Innovation And Design Thinking" 3. "Sustainable Energy Efficient Green Technology"	
Financial Assistance received during current year for attending FDPs	NIL	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Preparing for writing the research Proposal	0/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	NIL	0/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach.	05/10
Financial Assistance received during current year for attending such events.	NIL	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	0/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	NIL	0/5
Academic Programs organized and supported during current year. (Only FDP/Workshop/Seminar / Conference) . Do not include Webinars.	1. Implant Training Program for K S Polytechnic Students (Dept. of Civil Engg.) 2. Performance of Climatic Responsive Buildings – A Qualitative & Quantitative Approach (FDP)	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	NPTEL Highway Engineering	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	NPTEL –Concrete Technology: <a href="https://nptel.ac.in/courses/105102012">https://nptel.ac.in/courses/105102012</a> NPTEL - Geo Spatial Analysis In Urban Planning: NPTEL	5/5
Details of Project Proposal	NIL	

submitted during the current year. (At least one) Provide Details		0/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	NIL	0/5
Consultancy Revenue Generated	NIL	0/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) NAAC Criteria 7 Dept. Coordinator. ✓ 2) Grievance committee Member. ✓ 3) Test coordinator. ✓ 4) 4 <sup>th</sup> Year UG Class Teacher. ✓	08/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)(2marks for first membership & 3 marks for second membership)	NIL	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Coordinator for Dance	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Telephone calling duty 2. Supported for In plant Training for Diploma students 3. DCET Coaching for Polytechnic Students	10/10
<b>TOTAL</b>		<b>110.68</b>

Date: 14/07/2022

*Sri Sushma B.A*  
14/07/22  
Signature of faculty



**Comments from the HOD**

Sincere and Hard working,  
advise to register for PhD  
To attend more FDP's

W. Kelle  
Signature of the HOD

**Comments of the Principal after the discussion:**

Academic Performance is satisfactory.

K. Romo  
Signature of the Principal

CEO



**AICTE – VTU Joint Training Programme for Teachers  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY**


VTU HUMAN RESOURCE DEVELOPMENT CELL (VTU - HRDC)  
Centre for Post-Graduation Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101  
One Week Online Teachers Training Program

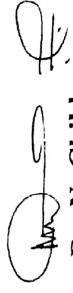



On  
"An Overview of Teaching Techniques in Innovation & Design Thinking"  
27<sup>th</sup> – 31<sup>st</sup> December 2021

## Certificate

*This is to certify that Mr. /Mrs. /Dr. /Prof. Saisushma B A of KSSSEM has Participated and Successfully completed One Week AICTE – VTU Joint Teachers Training Programme on "An Overview of Teaching Techniques in Innovation & Design Thinking" between 27<sup>th</sup> & 31<sup>st</sup> December 2021 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.*

  
Dr. Thirtha Prasad H P  
Programme Coordinator  
Dept. of Mechanical Engineering  
VTU CPGS, Muddenahalli

  
Dr. N. Chikkanna  
TU Coordinator  
I/C Regional Director  
VTU Regional Office, Bangalore

  
Dr. A S Deshpande  
Registrar  
VTU, Belagavi



**KSSEM**

KAMMAVARI SANGHAM (R) - 1952

# K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Ms. SAISUSHMA B A**

has attended the Faculty Development Programme

on

“Resource recovery and reuse : waste to wealth”  
from 17<sup>th</sup> -21<sup>st</sup> January of the year 2022.

*Head of the Department*

*Principal*



**RAMAIAH**  
Institute Of Technology



## CERTIFICATE OF PARTICIPATION

This is to certify that \_\_\_\_\_

KSSEM

Saisushma B A

of \_\_\_\_\_

participated in Six Days Faculty Development Program on “**SUSTAINABLE ENERGY EFFICIENT GREEN TECHNOLOGY**”, organized by the Department of Civil Engineering, MSRIT, during 21<sup>st</sup> to 26<sup>th</sup> March, 2022.

*Nagashree B*

**Ms. B Nagashree**  
Co-ordinator  
Assistant Professor  
Civil Engineering Dept., MSRIT

**Dr. R Mourugane**  
Co-ordinator  
Associate Professor  
Civil Engineering Dept., MSRIT

**Dr. I. Venugopal**  
Convener  
Professor & Head  
Civil Engineering Dept., MSRIT

**Dr. N V R Naidu**  
Principal  
MSRIT

KAMMAVAHI SANGHAM (P) - 1952

# K S SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)  
#15, Mallanandra, Off. Kanakapura Road, Bengaluru-560108



Department of Civil Engineering

and

Science and Engineering Research Board



This is to certify that

Mrs/Ms SAI SUSHAMA .B. A. ASSISTANT PROFESSOR

K. S. SCHOOL OF ENGINEERING & MANAGEMENT

*participated as a delegate in the Two Day National Seminar on  
"Performance Of Climatic Responsive Buildings - A Qualitative  
& Quantitative Approach" held on 10<sup>th</sup> & 11<sup>th</sup> of June 2022*

Ukkelle  
Convener

Principal

Chief Executive Officer

Chief Executive Officer

