



**V.V Sangha's  
RAO BAHADUR Y MAHABALESWARAPPA  
ENGINEERING COLLEGE, Cantonment, Ballari - 583103  
Department of Civil Engineering**



## I .Industrial Visit/Survey camp/Internship

### a) Survey camp

Extensive Survey Camp for VI Semester students of Civil Engg Dept., conducted for Ten days as a part of curriculum prescribed by the VTU. Devasamudra, Molakalmuru Taluk ,Chitradurga District. Date :15 /4/2023 to 26/4/2023



b)Technical visit from the Department of Civil Engineering on 12<sup>th</sup> January 2023 ,Place Hampi Heritage as a part of Curriculum.



c) “FACULTY DEVELOPMENT PROGRAMME”, 27<sup>th</sup> to 31<sup>st</sup> March 2023.Venue:- HSK Polytechnic, Ballari. RESOURCE PERSON'S





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d) “Academic Excellence Award” ,function on June 8 2023. Venue :- Department of Civil Engineering ,RYMEC,Ballari.



**II.Academic Toppers:-**

Academic year 2022-2023 Topper M.Tech 2<sup>nd</sup> YEAR (Structural Engineering)

PLACE SECURED	USN	Name of the Student	Percentage
1	3VC21CSE01	Akash.M.J	87.00
2	3VC21CSE09	Manoj Kumar.A.E.	80.83
3	3VC21CSE14	Sambhrama S.M.	75.83

Academic year 2022-2023 Topper M.Tech 1<sup>st</sup> YEAR (Structural Engineering)

PLACE SECURED	USN	Name of the Student	Percentage
1	3VC22CSE14	Sarvesh Sondur	82.42
2	3VC22CSE04	Gulnaz	81.71
3	3VC22CSE06	Kalyani.S.L.	81.28

Academic year 2022-2023 Topper of 8 semester Civil Engineering

PLACE SECURED	USN	Name of the Student	CGPA
1	3VC19CV006	Banakara Kusuma	9.22
2	3VC19CV072	Syed Mudassir	9.18
3	3VC19CV067	Soumya P	9.10



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Academic year 2022-2023 Topper of 5 semester Civil Engineering

PLACE SECURED	USN	Name of the Student	MARKS SCORED
1	3VC20CV029	R.Diggaja	461
2	3VC20CV022	Pavitra P C	428
3	3VC21CV430	Sharanamma	400

Academic year 2022-2023 Topper of 3 semester Civil Engineering

PLACE SECURED	USN	Name of the Student	MARKS SCORED
1	3VC21CV001	A K SHIVANEELA	656
2	3VC22CV403	Arpita Patil	482
3	3VC21CV007	Harshitha B M	479

iv) NBA Status :- Department of Civil Engineering Accredited from 2021-2024

v)a) PATENT TITLE “STRENGTH AND DURABILITY STUDIES ON HYBRID FIBER REINFORCED HIGH PERFORMANCE CONCRETE”, by Dr. Adanagouda & Dr.H.M.Mallikarjuna . Application Number 202341020143

4:48

VoLTE 4G+ 60%



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



**Application Details**

APPLICATION NUMBER	202341020143
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/03/2023
APPLICANT NAME	1 . Dr. Adanagouda 2 . Dr.H.M.Mallikarjuna
TITLE OF INVENTION	STRENGTH AND DURABILITY STUDIES ON HYBRID FIBER REINFORCED HIGH PERFORMANCE CONCRETE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	06/06/2023
PUBLICATION DATE (U/S 11A)	31/03/2023






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**b) PATENT TITLE** “Innovative approaches to high performance concrete: The synergy of binary mineral admixture and composite fibre reinforcement in enhancing strength, endurance and development of unified mix design methodology”, by 1 . Dr. H. Sudarsana Rao, 2 . Dr. Sachin Patil, 3 . Dr. Vaishali G.Ghorpade & 4 . Dr.T.H Patel. Application Number 202341006000 is published on 24/02/2023

 <b>INTELLECTUAL PROPERTY INDIA</b> <small>PATENTS   DESIGNS   TRADE MARKS GEOGRAPHICAL INDICATIONS</small> ( <a href="http://ipindia.nic.in/index.htm">http://ipindia.nic.in/index.htm</a> )	
Application Details	
APPLICATION NUMBER	202341006000
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/01/2023
APPLICANT NAME	<b>1 . Dr. H. Sudarsana Rao</b> <b>2 . Dr. Sachin Patil</b> <b>3 . Dr. Vaishali G.Ghorpade</b> <b>4 . Dr.T.H Patel</b>
TITLE OF INVENTION	Innovative approaches to high performance concrete: The synergy of binary mineral admixture and composite fibre reinforcement in enhancing strength, endurance and development of unified mix design methodology
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/02/2023

**vi) Consultancy Activities**

The Department of Civil Engineering, RYMEC, Ballari carried out testing on construction Material and 3<sup>rd</sup> party inspection from various government/company works such as City Municipality Corporation. Zilla Panchayat, BUDA Ballari, Town Municipality Kurugodu, sandur etc.,



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## DEPARTMENT ACTIVITIES:



**Orientation program on Sustainability in Construction Using GGBS and Green Materials**  
Organized by Shilpi forum in association with JSW Cement on 28 June 2023



**Visit to Moka Water Treatment plant**

5 semester students on 29 Nov 2022



**World Environment Day Date 05/06/2023**



**Painting a tree on the occasion of Environment Day**







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Parents Teachers Meeting ,Scheduled on  
17.6.2023 @ Civil Engineering Department.



Civi Tech Fest From 16 Dec 2022 to 18 Dec 2022



1)Measuring the geometrical elements of highway .  
for the 5<sup>th</sup> semester Civil Engineering students.  
Date:- 26-11-2022 , Location:- Moka Road

6<sup>th</sup> semester Students of Civil Engg.,Dept.,  
Creating awareness about solid waste  
management in Byalachinte village , Ballari taluk  
Ballari. Date 09/06/2023





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'Graduation Day' on 27/05/2023.Venue:- CSE Seminar Hall ,RYMEC.Ballari.



### **vii) Research center Activities**

Civil Engineering Department has recognized research center affiliated to VTU was established in 2014. Currently Eight number research scholars were registered for Ph.D and carrying the research work at research center.

Sl. NO.	Name of the Guide	Name of Research Scholar	University	Status of Research
1	Dr.H.M.Mallikarjuna	Aijaz Hussain	V.T.U.	Course Work is completed.
2	Dr.H.M.Mallikarjuna	Adana Gouda	V.T.U.	Ph.D Awarded
3	Dr.M.S.Shobha	Mahesh	V.T.U.	Cole cam is completed
4	Dr. H. Sudarsana Rao	Sachin Patil	JNTU	Ph.D Awarded
5	Dr.M.S.Shobha	Basavalingappa	V.T.U.	Open seminar completed.
6	Dr.H.Ravikumar	Basavaprabhu.M.S.	V.T.U.	Course Work is completed
7	Dr.B.Gangadharaiiah	Pavan Kumar.M.	V.T.U.	Course Work is completed
8	Dr.M.S.Shobha	Rajani Umapathi	V.T.U.	Course Work is completed





9	Dr.M.S.Shobha	Md.Khalid	V.T.U.	Open 1, Open 2 is completed.
10	Dr.M.S.Shobha	Anil Kumar.H.M	V.T.U.	<b>Course Work is completed</b>
11	Dr.M.S.Shobha	Nayana.B.S.	V.T.U.	Registered.

#### viii) Center of Excellence

#### Skill Development and Innovation Center

Skill Development and Innovation centre, Department of civil Engineering, was established in well positioned to act as a catalyst, to bring about a holistic change in the construction industry. Skill Development and Innovation centre operations are in the area of skill development, skill up gradation and capacity of buildings of all types of human resources, exclusively for construction industry.

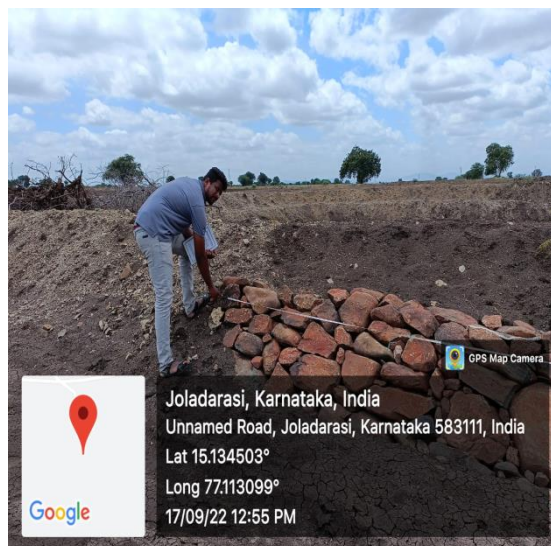
The main purpose is to develop and build capacities of human resources to enhance quality and productivity of construction industry. Skill Development and Innovation centre conducts trainings for unemployed youth, workers, tradesmen, construction engineers, contractors, managers, supervisors and technicians to develop skill and inculcate professionalism and contribute significantly towards creation of strong technical workforce that would bridge the gap between industry requirements and academic orientation.






## INTERNSHIP AT SKILL DEVELOPMENT AND INNOVATION CENTRE

The students have to work in industry to set-up related to the construction activities, materials testing laboratories and project management. And other avenues related to the civil engineering domain in consultation and approval of Internship Guide/ HOD /Internship committees of the institutions. Student shall make a midterm and final presentation of the activities undertaken during the first 6 weeks and at the end of 12<sup>th</sup> week of internship respectively, to a panel comprising internship guide, a senior faculty from the department and head of the department. Each student should submit the internship report at the end of semester with internship certificate. In this regard the student has worked various civil Engineering activities such as Prepare the Plan for the building with NBC norms and Vastu, Elevation of building by Google sketch up, Hands on session on bar bending work, masonry work, Plumbing work, and Painting work.





## ix) RESEARCH WORK

<b>Adanagouda awarded with Ph.D. Degree on 2<sup>th</sup> September 2022 from VTU, Belagavi for the thesis titled “Strength and Durability Studies on Hybrid Fiber Reinforced High Performance Concrete”.</b>	
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## x) PAPER PUBLICATION:-

<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Name of journal</b>	<b>Year of publication</b>	<b>ISSN number</b>
Behavior of Fly Ash and Met kaolin Based Composite Fiber (Glass and Polypropylene) Reinforced High Performance Concrete under Acid Attack	Dr.H.M. Somasekariah	Civil Engineering and Architecture	2021	ISSN: 2332-1121
Chloride Penetration Resistance and Behavior Under Acid Attack of Met kaolin and Silica Fume Based Composite Fiber (Glass and Polypropylene) Reinforced High Performance Concrete	Dr.H.M. Somasekariah	IJETT	2021	ISSN: 2231 – 5381
Evaluation of Strength Properties of Fly ash and Metakaolin Based Composite Fiber (Glass and Polypropylene) Reinforced High Performance Concrete	Dr.H.M. Somasekariah	IJETT	2021	ISSN: 2231 – 5381
Effect of Fly ash, Silica fume, Glass Fiber and Polypropylene Fiber on Strength Properties of Composite Fiber Reinforced High Performance Concrete	Dr.H. M. Somasekariah	IJETT	2021	ISSN: 2231 – 5381
Behavior of Fly Ash and Met kaolin Based Composite Fiber (Glass and Polypropylene) Reinforced High Performance Concrete under Acid Attack	Dr .Sachin Patil	Civil Engineering and Architecture	2021	ISSN: 2332-1121





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Evaluation of Strength Properties of Fly ash and Met kaolin Based Composite Fiber (Glass and Polypropylene) Reinforced High Performance Concrete	Dr.Sachin Patil	IJETT	2021	ISSN: 2231 – 5381
Effect of Fly ash, Silica fume, Glass Fiber and Polypropylene Fiber on Strength Properties of Composite Fiber Reinforced High Performance Concrete	Dr.Sachin Patil	IJETT	2021	ISSN: 2231 – 5381
Behavior of Fly Ash and Silica Fume based Composite Fiber (Glass and Polypropylene) reinforced High-Performance Concrete under Acid Attack	Dr.Sachin Patil	IOP science	2021	
Solid Waste Management and Search for Alternate Procedures of Waste Treatment, Recycling and Management	M.R.Vijaya Kumar	Turkish Online Journal of Qualitative Inquiry	2021	9876-9891
A study on strength and durability properties of Bacillus subtitles bacterial concrete	Dr.Adanagouda	IRJET	2022	2395-0056
Durability and micro-structure studies on fly ash and silica fume based composite fiber reinforced high-performance concrete	Dr .Sachin Patil	Elsevier Materials Today: Proceedings	2022	doi.org/10.1016/j.matpr.2021.07.247.



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The effect of rice husk ash, silica fume, and quarry dust on glass fibre reinforced concrete's strength properties	Dr.Sachin Patil	Elsevier Materials Today: Proceedings	2022	doi.org/10.1016/j.matpr.2022.01.458.
Performance of rice husk ash, silica fume, and quarry dust based glass fibre reinforced concrete subjected to acid attack	Dr.Sachin Patil	Elsevier Materials Today: Proceedings	2022	doi.org/10.1016/j.matpr.2022.06.231.
Experimental study on strength behavior of concrete reinforced with natural fibers	Dr.Sachin Patil	Elsevier Materials Today: Proceedings	2022	doi.org/10.1016/j.matpr.2022.11.065.
The influence of metakaolin, silica fume, glass fiber, and polypropylene fiber on the strength characteristics of high performance concrete	Dr.Sachin Patil	Elsevier Materials Today: Proceedings	2022	doi.org/10.1016/j.matpr.2022.11.051.
Study on Split Tensile & Flexural Strength of Hybrid Fiber Reinforced High Performance Tertiary Concrete with W/B ratio, Hybrid Fiber, A/B ratio, Combined Mineral Admixture	Mr. Mahesh, Dr. M.S. Shobha, Dr.Adana gouda	JSESM	2023	ISSN 2583-3294
An Investigation on Compressive Strength of Hybrid Fiber Reinforced High Performance Tertiary Blend Concrete with W/B ratio, Hybrid Fiber, Combined Mineral Admixture	Mr. Mahesh, Dr. M.S. Shobha, Dr. Adana gouda	JSESM	2023	ISSN 2583-3294
Ternary Blended geo polymer concrete-A review	Md.Khalid., Dr.M.S.Shobha	IOP science	2021	doi:10.1088/1755-1315/822/1/012043
Analysis of strength and durability properties of ternary blended geo polymer concrete	Md.Khalid., Dr.M.S.Shobha	Elsevier Material today proceedings	2021	DOI:10.1016/j.matpr.2021.08.307
Potential utilization of industrial effluents in ternary blended geo polymer concrete for future sustainable environment	Md.Khalid., Dr.M.S.Shobha	Springer Innovative infrastructure solution	2021	DOI:10.1007/s41062-023-01072-2





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Dynamic analysis of tall building located in different Seismic zones with central shear wall and diagonal bracings by using E tabs software	Veereshaih H.M., Basavalingappa	IRJET	2022	ISSN 2395-0072
Seismic Analysis of structure on sloped ground construction with angle dia grid and bracings using Etabs software	Veereshaih H.M., Pavankumar.M.,	IRJET	2022	ISSN 2395-0072
An experimental investigation to remove heavy metals and color from textile industrial waste water using activated carbon of coconut coir	Manohar.R., Ganesh.H.,	ISJEM	2023	ISSN: 2583-6129

Head of the Department