

B. V. V. Sangha's
Basaveshwar Engineering College (Autonomous), Bagalkot
Department of Civil Engineering

RESEARCH CENTRE DETAILS

I. About Research Centre:

- **Year of Establishment: 2003**
- **Major Research Areas (5 Nos.)** :
 - Structural engineering
 - water resource and environmental engineering
 - Geotechnical engineering
 - Fracture studies in structural engineering
 - Solid waste management
- **No. of research guides enrolled at our research centre** : **09**
- **No. of internal faculty guiding the candidates** : **08**
- **Faculty with Ph. D.** : **09**
- **Our faculty pursuing Ph. D.** : **05**
- **Total number of registered candidates at the research centre** : **23**
- **No. of candidates awarded Ph. D. till date** : **17**
- **No. of candidates pursuing Ph. D.** : **24**

II. Research guides at the research centre

Sl.No.	Name of the Guide	Area of Specialization
1.	Dr. S. S. Injaganeri	<ul style="list-style-type: none"> ● Light aggregate concrete ● Ductility of RC beams in shear.
2.	Dr. R. B. Khadiranaiar	<ul style="list-style-type: none"> ● High performance concrete (HPC) ● Reactive powder concrete (RPC) ● Geopolymer concrete (GPC) ● Fibre reinforced concrete (FRC) ● Concrete mechanics ● Design of reinforced concrete and steel structures.
3.	Dr. V. S. Soraganvi	<ul style="list-style-type: none"> ● Water Resources Engineering ● Environmental Engineering ● Remote Sensing & GIS Applications ● Numerical Modelling ● Stochastic Modelling ● Scale Issues in Hydrology
4.	Dr. P. G. Rakaraddi	<ul style="list-style-type: none"> ● Dynamic properties of soils by SASW technique ● Liquefaction potential
5.	Dr. B. R. Hiremath	<ul style="list-style-type: none"> ● Solid waste management
6.	Dr. M. M. Hanamasagr	<ul style="list-style-type: none"> ● Fracture behavior of Quasi-brittle Materials.
7.	Dr. S. H. Sanni	<ul style="list-style-type: none"> ● Geopolymer concrete ● Steel structures ● Reinforced concrete structures.
8.	Dr. S. M. Malkapur	<ul style="list-style-type: none"> ● Radiation Shielding ● Sustainable Construction Materials ● Building Thermal Comfort ● Alternative Binding Materials
9.	Dr. Adarsh.S.Chatra	<ul style="list-style-type: none"> ● Slope Stability Analysis ● Rainfall-Induced Landslides ● Numerical Modelling of Geotechnical Structures ● Probabilistic Modelling of Geotechnical Structures.

III. Research Scholars pursuing Ph. D program

Sl.No.	Name of the Student	Name of the Guide	Year of Registration	Research Topic
1.	Mr. A. K. Hipparagi	Dr. S. S. Injaganeri	2008-09	Study on minimum reinforcement and ductility of high strength reinforced concrete beams in shear.
2.	Mr. Siddangowda	Dr. C. B. Shivayogimath	2011-12	Watershed Management and planning of hire halla basin using remote sensing and GIS-An integrated approach of managing natural resources
3.	Mr. Praveen Jyoti	Dr. M. S. Gadagi	2011-12	Morphological behavior of meandering river-An experimental investigation approach
4.	Mr. Prashant Bagavati	Dr. C. B. Shivayogimath	2012-13	Electrochemical Treatment of Pulp and Papermill wastewater
5.	Mr. Aijaz Zende	Dr. R. B. Khadiranaikar	2013-14	Investigation on Mechanical Properties of Self Compacting Concrete
6.	Mr. Abbas Ali Dhundsi	Dr. R. B. Khadiranaikar	2013-14	Investigation of Reactive Powder Concrete Under Repeated loading
7.	Mr. V. B. Sulebhavi	Dr. M. S. Gadagi	2013-14	Influence of Physical Obstruction on Equilibrium Bed Morphology in Meandering Channel
8.	Mr. Naveen Desai	Dr. V. S. Soraganvi	2013-14	Synthesized nanomaterials performance in the removal of heavy metals from the landfill leachate
9.	Mr. Anuradha Tankasali	Dr. V. S. Soraganvi	2013-14	Study of groundwater movement and its quality parameters in minor river basin using modflow and GIS.
10.	Mr. G. S. Hiremath	Dr. R. B. Khadiranaikar	2014-15	Studies on Structural Behaviour of High Strength Concrete Columns reinforced with FRP bars
11.	Mr. Chandrakant Watawati	Dr. C. B. Shivayogimath	2014-15	Treatment of Dairy Industry wastewater using Continuous Electrocoagulation Process with Aluminum and Iron Electrodes
12.	Mr. K. M. Girinivas	Dr. M. M. Hanamasagar	2015-16	Fracture Behavior Including Size Effect of Fibre-Reinforced Stabilised Rammed Earth
13.	Mr. Praveen Meti	Dr. C. B. Shivayogimath	2015-16	Treatment of sugar Industry Wastewater by using Electrocoagulation Technique in Bipolar electrodes systems
14.	Mr. S. F. Chitragar	Dr. C. B. Shivayogimath	2015-16	Performance Evaluation of Pavement Materials Using Bio-Enzymes
15.	Mrs. Shareefa Nadaf	Dr. P. B. Kalburgi	2015-16	Removal of Ionic Liquids from aqueous solution by using Advanced Oxidation Process

16.	Mrs. M. Y. Ganiger	Dr. R. N. Herkal	2016-17	A study on fluoride contaminating ground water at source and its retention by in-situ reactive barrier.
17.	Mrs. G. R. Patil	Dr. P. G. Rakaraddi	2016-17	Assessment of Liquefaction resistance of sand with varying silt content
18.	Mr. Y. U. Kulkarni	Dr. R. B. Khadiranaikar	2016-17	Investigation of early age cracking due to shrinkage of Higher Strength Concrete
19.	Mr. Sachin Bagewadi	Dr. M. S. Gadagi	2016-17	Soil parameter investigation and hydrological study of done river
20.	Mr. G. H. Bandihal	Dr. V. S. Soraganvi	2016-17	A Study on Artificial Ground Water Recharge in Semi Arid Regions: An Approach Using Geographical Information Systems and Remote Sensing Techniques.
21.	Mr. Shashank C Bangi	Dr. V. S. Soraganvi	2016-17	Estimation of actual Evapotranspiration by using surface energy balance based on remote sensing techniques.
22.	Mrs. Sangeetha Mulgund	Dr. P. B. Kalburgi	2018-19	Treatment of Textile Wastewater using Advanced Oxidation Process (AOPs)
23.	Mr. Manju kumar P	Dr. V. S. Soraganvi	2018-19	Reservoir induced spatio temperal changes on landscape transformation, urban growth and risk assessment of heritage sites in Bagalkot, INDIA.

IV. Ph. D`s awarded from Research Centre

Sl.No.	Name of the Student	Name of the Guide	Title of Thesis	Year of Degree Awarded
1.	Mr. V. G. M. Desai	Dr. R. N. Herkal	Fly ash and lime to control geotechnical problems in expansive soils.	2008
2.	Mr. M. B. Wali	Dr. C. B. Shivayogimath	Investigative studies on removal of colour and heavy metals by upflow column using adsorbents.	2009
3.	Mr. B. G. Katageri	Dr. R. N. Herkal	Effect of Contamination on Index Properties and Compressibility Characteristics of B.C. Soils.	2010
4.	Mr. M. M. Awati	Dr. R. B. Khadiranaikar	Some mechanical Properties and Design related studies of High performance concrete.	2011
5.	Mr. U. S. Hampannavar	Dr. C. B. Shivayogimath	Studies on Treatment of Sugar Industry Wastewater with UASB and Hybrid-UASB Reactors.	2012
6.	Mr. P. B. Kalburgi	Dr. C. B. Shivayogimath	Water Quality Assessment and Modelling of River Ghataprabha (India).	2013
7.	Mr. S. M. Muralan	Dr. R. B. Khadiranaikar	Experimental Investigation of Reactive powder concrete.	2015
8.	Mr. G. M. Hugar	Dr. V. S. Soraganvi	Effect of soil organic carbon on unsaturated soil properties.	2016
9.	Mr. M. N. Hiremath	Dr. C. B. Shivayogimath	Fluoride problems in Mundaragi Taluk of Karnataka and Column studies on Defluoridation of Water using low cost Adsorbents.	2016
10.	Mr. S. H. Sanni	Dr. R. B. Khadiranaikar	Experimental Investigation of properties of Geo-polymer concrete.	2017
11.	Mr. M. Prakash	Dr. R. N. Herkal	Uplift capacity of anchored foundation.	2017
12.	Mrs. Gouri Mirji	Dr. P. B. Kalburgi	Treatment of Dairy Wastewater by Electrocoagulation Technique.	2018
13.	Mr. Chidanand Patil	Dr. P. B. Kalburgi	An Investigation of the effect of Sugarcane Bagasse Ash on the Micro Structural and other properties of Concrete.	2018
14.	Mr. AsifIqbal Momin	Dr. R. B. Khadiranaikar	Experimental and Analytical Investigation of Flexural Behaviour of HPC Beams.	2019
15.	Mr. Aslam Hutagi	Dr. R. B. Khadiranaikar	Investigation of Fly ash based Geopolymer Concrete under Compressive Loading.	2019
16.	Mr. G. M. Hiremath	Dr. V. S. Soraganvi	Treatment of distillery wastewater using hybrid EEAD reactor.	2020
17.	Mr. Madhumala Patil	Dr. V. S. Soraganvi	Biofilm induced reduction of hexavalent chromium by indigenous microbes.	2021

V. Research Projects carried out in the department

Sl.No.	Title	Funding Agency	Amount	Year
1.	Study on ductility and minimum reinforcement in shear of high strength concrete.	VTU	16.00	2007
2.	Location based performance study of HSC pavement and highway railing towards traffic safety.	AICTE	8.50	2007
3.	Durable Concrete for sustainable development.	AICTE	12.70	2008
4.	Study of Groundwater exploration using GIS.	VTU	24.50	2009
5.	Behavior of High-Performance Concrete Columns.	VTU	14.07	2009
6.	Integrated Study of surface & subsurface waters; A case study of Backwater effect of Alamatti Reservoir.	AICTE	6.00	2009
7.	Morphological behaviour of Meander River	AICTE	3.75	2009
8.	Study on the Properties of Reactive Powder Concrete.	VTU	10.25	2010