



# RV College of Engineering®

Autonomous  
Institution Affiliated  
to Visvesvaraya  
Technological University,  
Belagavi

Approved by AICTE,  
New Delhi, Accredited  
by NAAC, Bengaluru

*Go, change the world*



DEPARTMENT OF CIVIL ENGINEERING  
RV COLLEGE OF ENGINEERING®  
BENGALURU – 560059

## VISION

Excel in Education, Research and Consultancy in Civil Engineering with emphasis on Sustainable Development.

## MISSION

- Disseminating and integrating the knowledge of civil engineering and allied fields.
- Enhancing industry-institute interaction leading to interdisciplinary research.
- Imbibing wide-range of skills in cutting-edge technology for sustainable development.
- Motivate entrepreneurship and professional ethics to serve the society.

## **RV College of Engineering\***

R.V. College of Engineering (RVCE) established in 1963 is one of the leading self-financing engineering colleges in the country with a NIRF ranking of 77 in 2021. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST), a nonprofit trust. The college currently offers 13 UG programs and 16 PG programs in various disciplines.

### **Civil Engineering:**

The Department was established in the year 1963 with the UG program (B.E.in Civil Engineering) and is one of the oldest branches of RVCE. The department has been imparting quality education to meet the technological advancement and industrial requirements. The present intake for the undergraduate program is 120 and is affiliated to Visvesvaraya Technological University (VTU) Belagavi with an Autonomous status. The department started two PG programs under VTU in Structural Engineering and Highway Technology in the year 2006 and 2009 respectively with a total intake of 36 students. The department is also involved in research and development and is a recognized research center under VTU. B.E in Civil Engineering program is accredited by NBA for three years in 2003, 2007, for two years in 2013 and for 3 years in 2016 and extended for another 3 years till June 2021. PG Highway technology programme has been accredited by NBA for three years in 2017 and extended for 3 years. The department has a modern acoustically designed seminar hall of 198 number capacity.

### **M. Tech (Structural Engineering)**

Structural engineering is a unique and creative profession which makes a significant contribution to the society, in particular to infrastructure development. The structural engineering program involves in teaching, research, analysis and design economic, environmental, aesthetic and social aspects of Civil engineering structures.

#### **Modern Equipment Available:**

Strain Controlled UTM (2000 kN); Mini test floor; Loading frame; Fatigue testing machine; Humidity chamber. Major software's available for post graduate students include STAAD ProV8i, Ansys, ETABS, NISA-CIVIL V19.0, MATLAB, etc.

#### **Courses offered:**

Computational structural mechanics, Advanced Structural Analysis, mechanics of deformable bodies, advanced design of R.C.C structures, reliability Analysis of structures, earthquake resistant design of structures, special construction materials, structural dynamics, design of bridges & grade separators, research Methodology.

### **M. Tech (Highway Technology):**

Highway Technology is a unique and innovative profession which makes a noteworthy contribution to the society, in particular to highway infrastructure development. The highway engineers are engaged in teaching, research, analysis and design, economic, environmental, aesthetic and social aspects of Civil engineering infrastructures /highways.

#### **Modern Equipment Available:**

Fatigue Testing machine, Marshall Testing Machine, Benkelman Beam, Bump Integrator, skid resistance tester.

#### **Courses Offered:**

Pavement materials, Traffic Engineering & Design, Pavement Analysis & Design, Pavement Deterioration & Evaluation, Soil mechanics for highway engineers, Road projects, Infrastructure finance, Highway Construction & Maintenance, Pavement Management Systems, Remote Sensing and GIS in Transportation Planning, Highway Geometric Design, Transportation Planning, Road Safety Engineering/ Infrastructure Finance, Design of bridges & Grade separators, Research Methodology.

#### **Faculty Expertise:**

The department has 31 faculty members with specializations in different areas of civil engineering.

- 21 faculty members have doctoral degrees and the rest are pursuing their Ph.D.
- Domains of expertise of the faculty is in the areas of structural engineering, highway engineering, geotechnical engineering, remote sensing & geographical information system.
- Faculty are actively involved in academics, research & consultancy. Members of BoS & BoE of various institutions in India. Published books in leading publishers.

### Courses Offered:

The department offers a wide range of courses spanning various domains of Civil Engineering, with constant updation of the syllabus. Apart from basic science and basic engineering courses, the main courses offered are:

1. **Basics of Civil Engineering-** Elements of civil engineering, civil engineering materials, surveying, building construction & planning, geotechnical engineering, Estimation & Costing, Construction Management.
2. **Structural Engineering-** Strength of Materials, structural Analysis I &II, design & drawing of R.C.C structures, design & drawing of steel structures,

structural dynamics, masonry structures, bridge engineering.

3. **Transportation Engineering- Traffic Engineering,** Highway engineering, transportation engineering, traffic Engineering.
4. **Water Resource Engineering-** Fluid Mechanics, hydrology & irrigation Engineering, hydraulic structures.
5. **Environmental Engineering-** Environmental technology, water supply engineering, waste water engineering, solid waste engineering, municipal plastic waste management.
6. **Humanities-** English language Laboratory, professional skill development, research methodology, project management.

### List of Funded Projects:

Sl.No	Title of Project	Amount (Rs.In Lakhs)	Sponsoring Agency	Status
1	Development of Geo polymer composites for enhanced mechanical properties and subside air pollution by the addition of nano particles with emphasis on achieving content uniformity.	70.1	DST	Ongoing
2	Optimization of C & D Waste (Brick and Concrete Waste) Replacement as aggregates in Hollow concrete blocks for unreinforced masonry	12	VTU	Ongoing
3	HUDCO Chair program	24	HUDCO HSMI	Completed
4	Behaviour of brick masonry subjected to lateral plane shear force	8	AICTE	Completed
5	Strength of hollow concrete block masonry for high rise buildings	17.42	VTU	Completed
6	Rain Water harvesting	16	KPMG	Completed
7	Air Quality Monitoring station	11.56	CPCB/MoEF	Completed
8	Development of Phenomenological model to proportioning CLSM	8.65	DST	Completed

**Consultancy:** Department of civil engineering is actively engaged in consultancy works, such as design, vetting, testing of concrete, masonry, steel, soil investigations, road safety

### Patent Details:

#### i.) Patent Granted:

Sl.No.	Application Date	Patent Number	Particulars
1	13-04-2016	Granted Patent No. 354719 Granted: 29.12.2020	"Controlled Low Strength Material composition for construction and maintenance of pavements"

#### ii.) Patent Published:

Sl.No.	Application Date	Patent Number	Particulars
1	07-06-2016	201641019570	"Methods and system for preparing a plasticizer from rain tree pods"
2	08-11-2017	201741039721	"Stabilization of the earth for construction with a stabilizer"
3	04/02/2022	202241002935	Changes in metal leaching from Coal Fly Ash During Wet Storage & Reuse.

#### iii.) Patent filed:

Sl.No.	Application date	Application N	Particulars
1.	31.03.2021	202141015076	"A method and system to enhance the properties of cementitious products"

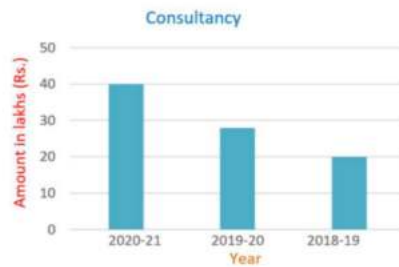
engineering- black spot improvement, proof checking for structural designs, pavement surveys and investigations.

**Clients:** RDW&S Dept., GoK, MEIL, M/s Arun Constructions, MI Dept., GoK, M/s Thombathu infra projects Pvt Ltd, IPE Global, Tumakuru Smart City, M/s Shiva Shakti Co, M/s S V Constructions, Bengaluru, M/s

Larsons and Turbo constructions Ltd, M/s Grihamitra Constructions, Bengaluru, M/s Somani Wires, M/s Vasushree Infratech, Karnataka Chittrakala Parishath, Spectrum Buildtech.

**Services Offered:**

- \* Pavement surveys and investigations
- \* Bituminous and concrete mix design
- \* Material testing for preparation of feasibility and DPRS
- \* Road safety engineering - black spot improvements
- \* Road signage audit
- \* Technical advisory services for citizen quality monitoring of PMGSY roads
- \* Proof checking for structural designs
- \* Third party investigations
- \* Soil investigations.



**Companies Offers for Internships and Placement.**



Year	2018	2019	2020	2021	2022*
Highest CTC- UG	39.10	48.08	49.75	53.18	47.00
Highest CTC- PG	17.76	20.00	20.20	24.00	31.50
Median Salary - UG	7.00	8.00	8.50	8.93	-
Median Salary - PG	5.00	6.00	6.50	7.00	-

\* 2022 Still In Progress

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