



## RACHANE – News Letter

Department of Civil Engineering,  
JSS Academy of Technical Education, Bengaluru – 560060

[www.jssateb.ac.in/civil](http://www.jssateb.ac.in/civil)

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### Principal's Message



I am highly delighted to see that the Department of Civil Engineering is bringing out a newsletter. It is a good attempt to create a platform for sharing all relevant information regarding the major events of the Department. I wish all the best for this attempt. I also hope that the students and staff will be highly benefited in creating a good academic ambience in the Department.

### Head of the Department Message

The department of Civil Engineering is bringing a news letter to provide an opportunity to all students and staff to share their views and to have a good interaction among them. It is planned to have this news letter as bi-annual so that the information regarding all major events of the department will be made available to all concerned. I wish all the best for the editorial team. I hope that the students and staff members will utilize this opportunity to enhance their academic activity.

### JSS Mahavidyapeetha



The Jagadguru Veerasimhaasana Peetha established in the 11th Century A.D. at Suttur by Adi Jagadguru Sri Shivarathreeshwara Shivayogi Mahaswamiji has a history dating back to 1000 years, according to the scriptures. Suttur is a village in Nanjangud taluk, Mysore district in Karnataka. It is about 28 km from Mysore city, in the south east direction.

The Peetha with its high ideals has been making remarkable contribution in religious, social, educational and economic spheres in the state and across the country. It is striving for social development by responding to the community needs. It strongly believes that unless the problems of the socially backward communities and the poor are solved, there cannot be any social development. With this objective, it has taken up several development initiatives, while at the same time living up to its principle of 'work is worship' and is engaged in raising public awareness on issues of social concern.

The establishment of the Samskritha Paathashala by the 22<sup>nd</sup> Pontiff Sri Shivarathreeshwara Mahaswamiji who was popularly known as the Mantra Maharshi might be called a landmark in the history of the Sree Math. When the 23<sup>rd</sup> Pontiff Jagadguru Dr. Sri Shivaratri Rajendra Mahaswamiji came to Mysore in 1926 to pursue higher education, he observed that many rural students were in need of food and shelter. He gave them shelter at his own place and this marked the beginning of offering education to poor students. As far back as 1942, he established a hostel and offered free food and hostel facilities for poor rural students. This marked Sree Math's first step in the field of development of the society.

Instead of making students come to cities seeking education, Jagadguru Dr. Sri Shivarathri Rajendra Swamiji thought of starting educational institutions in rural areas. In order to make this possible, he started the Jagadguru Sri Shivarathreeshwara Mahavidya-peetha in 1954. In order to implement the educational programs, it was registered under the Societies' Registration Act 1960, vide: Reg. No. 12/1962 on 17-07-1962. Under the untiring efforts of Dr. Sri Shivarathri Rajendra Mahaswamiji, the Vidyapeetha has witnessed enormous growth in the field of education.

JSS Mahavidyapeetha which took its first step in the field of education with the starting of a high school has now forayed into Crèches, Primary schools, High schools, Pre-university and Degree Colleges, Law, Engineering, Medicine, Dental Sciences and Pharmacy and has thus provided all classes of the society easy access to educational opportunities. Now, the JSS University, Mysuru (Deemed to be University) has been started and Medical, Dental and Pharmacy Colleges at Mysore and Ooty are brought under its control since 2008.

A young child who joins a JSS Institution seeking education may go on to become a scientist, or an engineer, or a technologist, or a doctor, or a philosopher. Jagadguru Sri Shivarathreeshwara Mahavidyapeetha thus has all the facilities that

shape the youngster into a good citizen of the country.

Under the leadership of the present pontiff, the 24th Peethadhyaksha, Sri Shivarathri Deshikendra Mahaswamiji, the Mahavidyapeetha has not only established educational institutions in places where necessary, it has also made sure that all these institutions impart quality education. Engineering, Medical, Dental and Law colleges run by JSS are reputed to be the best educational institutions of their kind in the state and have also become autonomous. Apart from formal and vocational training, a training institute for Civil Services Examinations (JSSTICE) and Jana Shikshana Samsthans have also been established as the Mahavidyapeetha has realized the need for continuing education.

The JSS Medical Service Trust launched its 1800 bed hospital at Mysore as part of its social service commitments and has provided good medical services for the rural population in this region. In addition, this hospital is being used as a teaching hospital for students from the JSS Medical College.

With the objective of giving good quality education, public schools with CBSE syllabus are established. This includes the residential school at Ooty in Tamilnadu that has the best facilities.

JSS Mahavidyapeetha has expanded its jurisdiction by establishing and registering another Mahavidyapeetha at Ghaziabad in Uttar Pradesh. Through this, it is running an engineering college (JSSATE, Noida) and a public school in Noida, Uttara Pradesh.

In Suttur, around 4,000 underprivileged children from across the state and the country as well are receiving free primary and high school education. Under this project, students from the 1<sup>st</sup> to 10<sup>th</sup> standard are provided with free uniforms, books, boarding and lodging facilities. This project, which reaches out to children without any discrimination of caste and religion, is highly lauded by the public.

The JSS Krishi Vignana Kendra (Agricultural

Sciences Centre) was established in Suttur in 1994 to improve the economic conditions of farmers in the field of agriculture, animal husbandry and rural development. The centre offers training, transfer of technology, material assistance and holds demonstrations and exhibitions in order to educate the farmers in modern agricultural methods. The publication division not only sponsors priceless books, but is also involved in religious publicity activities.

The JSS Mahavidyapeetha has also started a polytechnic for the differently abled (JSSPPH) with the aim of empowering them to have self employment and lead a good life. For the first time in the country, such a polytechnic was started with grant in aid from the World Bank. The students are being trained in several subjects. A hostel for differently abled working women and girl students is also being run.

It is worth mentioning here about the educational institutions established abroad – JSS Academy of Technical Education, Mauritius and two schools viz. JSS International School and JSS Private School and also JSS Academy, Dubai.

The JSS Mahavidyapeetha has been undertaking public welfare programmes in various fields that help the holistic development of the society.

### About JSSATE



JSS Academy of Technical Education (JSSATE) was established in the year 1997 at Bangalore and is under the umbrella of JSS Mahavidyapeetha, Mysore. JSSATE is the result of the vision of our President, His Holiness Jagadaguru Sri Shivarathri Deshikendra Mahaswamiji to proactively

participate in establishing a world class Institution for Technical Education. The Campus is located in a sprawling 21.17 acres land surrounded by lush green plantation on the South-Western edge of Bangalore City. Institution is affiliated to Visvesvaraya Technological University (VTU), Belgaum, India.

JSSATE, Bangalore has an excellent infrastructure with the state-of-the art equipment and machinery as laboratory facilities. The Institution has spacious classrooms and the laboratories. The whole building is networked and has centralized browsing facility with 20 Mbps dedicated internet bandwidth. Entire college has Wi-Fi facility.

The Institute has highly qualified faculty. The Institute has initiated number of multi disciplinary and multi-Institutional R&D programmes with AICTE, DST and other departments. Under the R & D activity, the Institute has taken up the design and fabrication of BIO-Diesel plant in collaboration with an industry and it is sponsored by Department of Science & Technology (DST), Government of India. This was recognized as one of the best completed project and same is being replicated in different states.

The Institute has a centralized library with open access facility for students. The Institute Digital library has on-line access to International journals. Book bank facility is available for students.

### About the Department

Civil Engineering Department was started in the year 2009 with an intake of 30 students for Under Graduate (B.E) program and is affiliated to Visvesvaraya Technological University (VTU), Belgaum.

Presently the department is headed by Dr. Nagabhushana. The present intake of UG course is 60. The department is well equipped with the state-of-the-art laboratories, class rooms, well staked library and is supplemented with Wi-Fi facility. It is a recognised VTU research centre.

Department is celebrating birth Centenary Celebrations of Dr. Sri Shivarathri Rajendra Mahaswamiji by organizing many fruitful programmes.

The department is practicing Outcome Based Education (OBE) as a part of NBA Accreditation process.

This issue of the newsletter traces major activities in the department during the period July-December 2015. Indeed, we have been very busy in organising various internship programmes and workshops.

The editorial committee looks forward to your feedback so that we can reach you in a much better and improved ways in the forthcoming editions.

Contact: [cdnl.jssateb@gmail.com](mailto:cdnl.jssateb@gmail.com)

### Faculty Structure

#### Professors

1. Dr.D.L.Venkatesh Babu, Ph.D

#### Associate Professors

1. Dr. Nagabhushana, Ph.D

#### Assistant Professors

1. Mr. M. Rudramurthy, BE, ME
2. Ms. Hemalatha H.N, BE, M.Tech
3. Mr. Santosh B.S, BE, M.Tech
4. Mr. Abdul Razak, BE, M.Tech
5. Mr.Vivek S, BE, M.Tech
6. Mr. Shashi Kumar S.R, BE, M.Tech
7. Mr. M.B. Vikram, BE, MBA, M.Tech
8. Mr. Jagadeesh M Kattimani, MSc (Geology)

#### Non Teaching Staff

1. Ms. Yashumathi
2. Mr. D.P. Prakash

3. Mr. Mahadevaswamy S
4. Mr. Kirthikumar
5. Mr. Vinay
6. Mr. Mahadevaswamy M

### Vision of the Department

To produce responsible technically qualified professionals with ethical and human values by providing excellent teaching, learning and research.

### Mission of the Department

- M<sub>1</sub> – Impart fundamental knowledge.
- M<sub>2</sub> – Use of modern tools for efficient learner centric teaching methodology.
- M<sub>3</sub> – Establish an effective feedback system for incremental quality improvement.
- M<sub>4</sub> – Encourage students to take part in co-scholastic activities for enhancing overall personality development.

### Departmental Events

1. Special guest lecture on “Careers in Valuation Profession” by Er. T.S Chandrashekar, Chairman, Institution of Valuers, ACCE(I), Bangalore Centre on 15.09.2015.



2. Special lecture on “Placement Opportunities for Civil Engineers” by Dr. M.U Aswath, Chairman, Indian Concrete Institute- Bangalore Centre on 06.04.2016.



### Student Activities

1. Mr. Bharath, 6<sup>th</sup> semester student has won 2nd place in Model making competition in the event Concrete Panorama & Deminar 2016 on Concrete admixture and Water-proofing systems organized by Indian Concrete Institute- Bangalore Centre during 25<sup>th</sup> and 26<sup>th</sup> of February 2016.

### Research Publications

Eleven research papers are published/presented by our faculties during this period,

1. Dr.D.L.Venkatesh Babu, K. Sridevi, Dr.R.Venkatasubramani, “Development of Ferrocement Formworks for Flexural Members”, International Journal of Applied Engineering Research, Vol. 10 No.62 (2015).
2. Dr.Nagabhushana, S.V.Tarun G.M.Swamy, Dr.Rathnakar, “Application of Processed Blast Furnace Slag as Fine Aggregate in Mortar and Plastering”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4 (Nov 2015).
3. Dr.Nagabhushana, “Study on Properties of Concrete with Different Levels of Replacement of Cement by Fly Ash”,

International Journal of Research in Engineering and Technology, Vol. 4 (Aug 2015).

4. M. Rudramurthy and M.B Vikram “Effect of Geotextiles on CBR Values”, International Journal of Emerging Trends in Engineering And Development (IJETED), Vol. 1 (Jan 2016).
5. Abdul Razak B.H and Dr.D.L.Venkatesh Babu. “Experimental Investigation on Usage of Grey Water in Concrete Production”, International Research Journal of Engineering and Technology (IRJET), Vol. 2 (Nov 2015).
6. Abdul Razak B.H and Madhukeshwara J.E, “Impact of Quarry Dust and Fly Ash on the Fresh and Hardened Properties of Self-Compacting Concrete”, International Research Journal of Engineering and Technology (IRJET) , Vol. 2 (Nov 2015).
7. Vivek S and Abhijith B.S, “Potential Usage of Fillers in Improving Geotechnical Properties of Expansive Soil–A Review”, Journal of Civil Engineering and Environmental Technology, Vol. 2 (April-Jun 2015).
8. Shashikumara S.R, “An Experimental Study on Application of Pervious Concrete in Effective Rainwater Harvesting System”, International Journal of Latest Technology in Engineering, Management & Applied Science, Vol. 5 (2016).
9. M.B Vikram and Chandradhara G. P, “Behavior of Windward and Leeward Columns with Aspect Ratio and Height of the Building”, Vol. S1 (Jun 2016).
10. M.B Vikram, Dr.Nagabhushana and M. Rudramurthy, “An Investigational study on Coir Strand Reinforced Concrete”, National Conference on RACE and ASD, ISBN: 978-93-84935-78-8 (Feb 2016).

### Editorial Board

1. Mr. M. Rudramurthy. Asst. Prof.
2. Mr. Shashikumar.S.R. Asst. Prof.

3. Mr. Bharath. 4<sup>th</sup> year Student Co-ordinator.
4. Ms. Bhavana D.R. 3<sup>rd</sup> year Student Co-ordinator.
5. Ms. Deepthi. 2<sup>nd</sup> year Student Co-ordinator
6. Mr. Adithya Amar. 1<sup>st</sup> year Student Co-ordinator.