

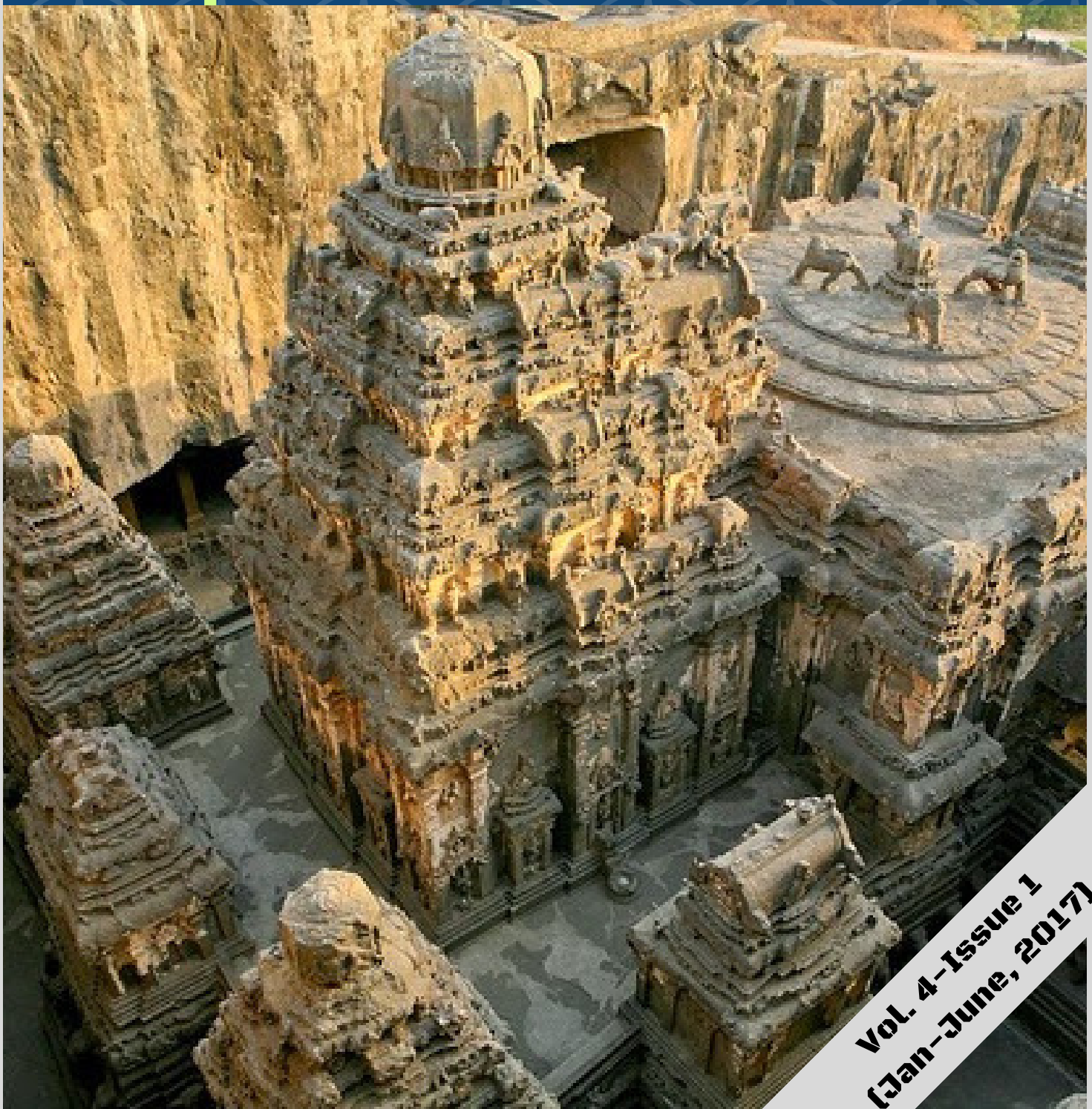


VASAVI  
COLLEGE  
OF  
ENGINEERING

# *Nirmaan*

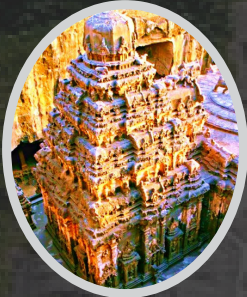
-The Newsletter

**Department of Civil Engineering**



**Vol. 4-Issue 1  
(Jan-June, 2017)**

# The Kailasa Temple



The Kailasa temple in Ellora caves (the whole area) is carved out of a single rock! That's right. All of it, was a singular stone at a point, which was hollowed out into what we know as the Kailasa Temple. The Kailash temple at Ellora was built by the Rashtrakuta Dynasty as a temple for Lord Shiva and was supposedly designed to mimic Mount Kailash. The pyramidal structure of the main temple is said to represent the shape of Mount Kailash. It has the largest cantilevered rock ceiling in the world. That's some feat for a temple as old as 757 AD. Three types of chisels were actually used to carve this megalith. The rear wall of its excavated courtyard has length of 276 feet (84 m), breadth of 154 feet (47 m) and height of 100 ft (33 m) high. The temple is built carving a big rock of 164 feet (50 m) deep, 109 feet (33 m) wide, and 98 feet (30 m) high. It Largest cantilevered rock ceiling in the world. Located at 99-km from Sambhaji Nagar (Aurangabad), Maharashtra. The entire complex of Ajanta encompasses 29 rock-cut rooms. It is assumed by some experts that the entire complex and temple structure might be created between 200 BC and AD 650 only using rudimentary hand tools. Four are Chaityas (temples) and Most others are Viharas (living quarters). The carving was done from top to down digging a single basalt cliff rock. Work happened only 16 hours a day. The reflection of sun rays from mirrors were used as there was no electricity in ancient period. However, there are so many inner parts of the structure where even sun rays cannot reach even using multi-layered mirror arrangement so delicately carving intricate designs in such places is done using yogic eyes. During Satyug, average height of people were 32 feet and their lifespan was lakhs of years with wishful death for Yogis. It is highly possible that the major carving of digging deep the entire mountain were done by these pious and strong people.

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## College VISION:

*"Striving for a symbiosis of technological excellence and human values."*

## MISSION:

*"To arm young brains with competitive technology and nurture holistic development of the individuals for a better tomorrow."*

## Department VISION:

*"To strive for excellence in order to make the students better citizens with technical knowledge and social awareness."*

## MISSION:

*"To impart knowledge in the latest technologies to the students of Civil Engineering to fulfill the growing needs of the society."*

### Program Specific Outcomes (PSOs):

1. Analyse and design civil engineering structural systems
2. Apply principles of fluid mechanics in solving problems of hydraulic engineering
3. Provide transportation engineering solutions integrating the concepts of sustainable development.

• Scientists investigate that which already is; Engineers create that which has never been.

—Albert Einstein

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

1. To provide a better understanding of basic sciences and the fundamentals of Civil Engineering.
2. To develop competence in latest technologies to serve the industry or pursue higher studies.
3. To inculcate professionalism with effective communication skills and ethical values.

### PROGRAM OUTCOMES (POs):

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



## In House Events Organised

- Sri. Ch. Y. Srinivas Kumar, Inspector of Police (Traffic), Asifnagar, Hyderabad interacted with the students of the department on 31st March, 2017. He gave power point presentation on Traffic awareness and Road Safety to the students. Two competitions viz., "Just a Minute" and "Elocution", were conducted for the students. Sri. Ch. Y. Srinivas Kumar distributed the prize to the winners.
- A meeting was conducted on "BE 2/4 CBCS Syllabus and BE 4/4 Autonomous Syllabus Review", on 6th April, 2017 by Civil Engineering Department, Vasavi College of Engineering. Dr. M. Janaradhana, Professor, Department of Civil Engineering, JNTU Hyderabad attended the meeting.
- A meeting was conducted on "BE 2/4 CBCS Syllabus and BE 4/4 Autonomous Syllabus Review", on 27th April, 2017 by Civil Engineering Department, Vasavi College of Engineering. Dr. K. Srinivasa Raju, Professor, Department of Civil Engineering, BITS, Pilani Hyderabad Campus was present at the meeting.
- Dr. B. Sridhar, Professor & HOD, Dr. C. Mohan Lal, Associate Professor, Sri. M. V. S. S. Sastri, Associate Professor, Sri S Vijay Kumar, Associate Professor Dr. K. Jayasree, Assistant Professor participated in an event on "Faculty Development Program (FDP) on Outcome Based Education" from 1st May, 2017 to 6th May, 2017, organized by Vasavi College of Engineering (Autonomous), Hyderabad in association with NIT, Warangal.
- Professional Practice School workshop was conducted from 12th June, 2017 to 27th June, 2017. 70 students attended PPS in 07 Companies.



## Acumen-2017

- The annual technical fest-"ACUMEN 2K17", was held on 23rd March, 2017. It received an enthusiastic response by the students. Events like Papz Mania, Post d Poster, Build It, Mad 4 Cad, Surowarriors, Struct O Guess, Techno Buzz, Minute To Win It, Planoveracity, Debate, Treasure Hunt were organised.







# Student Participation



Students from BE-2/4 Civil have attended Er. Thirupathi Reddy 6th Endowment Lecture on-"Water Resource Management.", on 4th Feb, 2017 at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.

Students from BE-2/4 and BE-3/4 civil have attended the Twelfth Endowment Lecture on "Twin Resorvirs & Musi River – Environs Of Hyderabad City" on 01st March, 2017 at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.



Students from BE-2/4 and BE-3/4 civil have attended a 2-Day Seminar on Innovative Technologies for Water and Waste Water Management." on 21st & 22nd March, 2017 at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.

- Students from BE-2/4 and BE 3/4 Civil have attended Er. G V Subba Rao 1st Endowment Lecture on-"Gust Pressures on Structure-Review of Codal Provisions", at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.



- Students from BE-2/4 and BE 3/4 Civil attended Er.Koka Krishna Mohan Rao 27th Endowment Lecture on-"Development of National Highways", at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.
- Students from BE-2/4 participated in the seminar on "Sustainable Water Management" dated on 15th May, 2017 on the occasion of Birthday Celebration of Father of Irrigation-General Sir Arthur Thomas Cotton, at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.
- Students from BE-2/4 and BE 3/4 attended a Seminar on "Smart Cities:Paradigm Shift in Development" on the occasion of National Technological Day, at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.
- Students from BE-2/4 and BE 3/4 attended a seminar on 5th June, 2017 on the occasion of World Environment Day Celebrations, themed-"Connecting People to Nature", at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana.



# Staff Participation

Dr. G. Shravan Kumar, Associate Professor, attended workshop-cum-Training Program on "Urban Flood Management: Technology Driven Solutions" on 3rd and 4th March, 2017 at BITS Pilani, Hyderabad Campus.

Dr. G. Shravan Kumar, Associate Professor, Civil Engineering Department, Joint Honorary Secretary and Civil Engineering Committee Member at Telangana State Center Institution of Engineers (India) was appointed as the Convenor of Technical Events Committee for the Two-Day All India Seminar on "Disaster - Mitigation of Floods and Urban Drainage Issues." He co-chaired two sessions-Technical Session 2 and Technical Session 5 on 6th and 7th Jan, 2017

Dr. G. Shravan Kumar also participated in the following events at Visvesvaraya Bhavan-IEI Telangana State Center, Khairatabad, Hyderabad, Telangana :

- Er. Thirupathi Reddy 6th Endowment Lecture on-"Water Resource Management.", on 4th Feb, 2017.
- A Two-Day All India Seminar on "Innovative Technologies for Water and Waste Water Management." on 21st & 22nd March, 2017.
- A Seminar on "Twin Reservoir & Musi River Environs of Hyderabad City.", on 1st March, 2017.
- A Seminar on "Smart Cities:Paradigm Shift in Development" on the occasion of National Technological Day on 11th May, 2017.
- A seminar on "Sustainable Water Management", on 15th May, 2017.
- On 5th June, 2017 on the occasion of World Environment Day Celebrations, themed-"Connecting People to Nature"

Er.Koka Krishna Mohan Rao 27th Endowment Lecture on-"Development of National Highways".



Dr.B.L.P.Swami, Professor delivered a lecture for Er. G V Subba Rao 1st Endowment Lecture on-"Gust Pressures on Structure-Review of Codal Provisions.





# Eminent Visitors



Ms. J. Poojitha, an alumni working as a software engineer at Accenture, Hyderabad had an interaction session on 'career guidance' with the students of B.E-2/4 civil on 12th January, 2017.

A guest lecture was delivered by Prof. P. Srinivasulu retired Professor, NIT, Warangal on the topic 'Water Resource Engineering', on 18th January, 2017. The students of B.E-4/4 civil attended the lecture.



Mr. R. Sudhakar, Divisional Fire Officer, Madhapur along with Mr. T. Jaganmohan, SFO, Madhapur, Hyderabad delivered a presentation on the provisions of NBC for fire safety measures to the students of BE 2/4 Civil Engineering on 27.02.2017.

Prof. K. Srinivasa Raju, BITS Pilani, Hyderabad held an interaction session on "Basic Engineering Mechanics and Engineering Mechanics", with the internal faculty on 17th March, 2017.



Mr. Ch. Bharath Kanth, Assistant Consultant in Capgemini, India held another interaction session on "Career Moulding" for the students of BE 2/4 Civil Engineering on 27th March, 2017.

- Dr. P. Manjusree, DMSG, NRSC / ISRO, Hyderabad delivered an expert Lecture on "Remote Sensing, GIS and Its applications in Civil Engineering" to the students of B.E-4/4 civil on 19th January, 2017.
- An expert Lecture on "Prestressed Concrete Structural Construction" was delivered by Sri. C.A. Prasad, Director, METEY Engineering and Consultancy Pvt. Ltd, Hyderabad for the students on 20th January, 2017.
- Er. Surya Prakash, MD, Satya Vani Projects and Consultants Pvt. Ltd. is the Adjunct faculty in the Department of Civil Engineering for the current academic session. He has delivered the following lectures on different topics for the 2/4 and 3/4 students:
  - 'Design of Steel Structures' for B.E. 3/4 Civil Engineering students on 3rd March, 2017.
  - 'Concrete Technology' & 'Project Management' for the students of BE 4/4 Civil Engineering on 07th March, 2017.
  - "HM & RS – Safety & Surveillance of Projects" to the students of BE 4/4 Civil Engineering on 31st March, 2017.
  - "Building Planning And Drawing- regarding the layout of plots and infrastructures" for B.E 2/4 and 3/4 civil engineering students on 01.04.2017.
  - "Building Planning And Drawing- regarding the importance of Green Buildings and its Sustainability" for B.E 2/4 and 3/4 civil engineering students on 01.04.2017.



# Student Achievements

- Seven students from B.E-4/4 civil have attended a Guest Lecture on “ Introduction to Finite Element Techniques” by Prof. Thirupathe Chandapattla, Rowan University on 11th January,2017 held by the Department of Mechanical Engineering, VCE.
- R.Bheeshma, B.Shekhar Reddy, M.Anila, Sai Kiran Reddy, P.Rishyander Reddy were selected for NSS camp held from 14th March,2017 to 20th March,2017.
- Tirupathi.G , Rahul Kotha, Mandira Devi from 4th year, Podugu Anjali, Chinthapatla Rajesh, Katragadda Satvika from 3rd year and G.Sushanth Reddy,G.Aaryavardhun and D.Venkata Sushil from B.E-2/4, won the 1st ,2nd and 3rd prizes respectively from each year on 31st March,2017 in the quiz conducted on ‘Road Safety’.
- Yash Yogesh Parmar,D.Venkata Sushil, Thota Samanvitha and Mandira Devi won the 1st ,2nd and 3rd prizes respectively on 31st March,2017 in Just A Minute competition on ‘Road Safety’.



Mr. Yash Parmar won the Harsha Vardhan Podipireddy Memorial “Young Leader Award-2017” at Vasavi College of Engineering, Ibrahimbagh, Hyderabad on 25th March,2017.



V.Roopika, P.Satyajit, L.Shiva Nischal, M.Thirupati Reddy and D.Venkata Sushil participated in the Technical Quiz on “ Innovative Technologies for Water and Waste Water Management” on 21st March,2017 and won the 1st prize.





# Adjunct Faculty



**ER. P. SURYAPRAKASH**  
MANAGING DIRECTOR  
SATYAVANI PROJECTS &  
CONSULTANTS PVT. LTD.

Er. P. Surya Prakash is an eminent Engineer, Consultant and a Mentor who has made significant contribution to Civil Engineering. Er. Surya Prakash obtained his Bachelor's degree in Civil Engineering from JNTUK in 1986. He did MS in Structures in 1990 from IIT-Madras. After working for 5 years as Design engineer, in 1994 he established M/s SatyaVani Projects and Consultants Pvt. Ltd. He is also the Founder and Mentor of Smart Infr-EST, a trust dedicated to the Civil Engineering to enhance employability and employment. He was President of ACCEI (2013-15) and is Founding President of PSI since 2013. Er. Surya Prakash is a Fellow of Institution of Engineers (India), Fellow of Association of Consulting Civil Engineers (India), Member of Indian Concrete Institute etc.

He authored a book on "Design and Implementation of Communication Towers". Er. Surya Prakash was the Guest Training Faculty to CERI, ESCI (Hyderabad) on CAD of Transmission Line Towers. He was Chief Resource Person for LEAP Lecture in 56 topics for Smart Infr-EST. The CABFADD software developed by him won the ACCE-CDC Best Software award in 2007. He was the Organizing secretary for WISE-2004. He organized Workshops on PEPSCon-2013, '14, '15 A3C2010, MecCON2007, EiA (2003), IS: 456-New Vistas, Seismic design of Buildings, IS-1996, ISIS-1999. He was a Member of the Expert Committee for Categorization of Seismic damaged structures. Er. Surya Prakash is involved in the successful conduct of several International Conferences, viz. Como-Italy 2011, SEWC, Seoul - South Korea, IASS 2012, and Pre Cast -2014 Moscow and SEWC-2015, Singapore. He guided Projects for M.Tech and B.Tech Students of Engineering colleges IITM, JNTUH, NITW. He was also involved in the training of Engineers.

Er. Surya Prakash handled several prestigious projects during the past three decades. Some of the projects he undertook include: Affordable Housing, Buildings – Residential, Commercial, Office, IT, Industrial, Hospitals, Hotels, Infrastructure- Roads, Bridges, Metro Rail, Runways, Hangars, Logistic Parks, Leisure Theme Parks, Stadiums, Transmission Line Towers, FM, TV, Microwave and Cellular Towers providing Architecture, Engineering and Project Management Services. The Prestigious Clients include Ministry of Defence, Il&FS, Tech Mahindra, GVK, GMR, BSNL, Idea, AirTel, TATA, Saket, Manjeera, Janapriya, Ashoka etc.



# Industrial Visits

- An Industrial visit for B.E. 4/4 Civil Engineering Students was arranged on 3rd February, 2017 (Friday) to INCOIS near JNTU Kukatpally, Hyderabad. Dr. G. Shravan Kumar, Associate Professor and DSV Ramana, Lab Technician accompanied the students.



- An Industrial Visit for BE 3/4 Civil Engineering Students was arranged on 14.03.2017 to "Crushing Plant, Ready Mix concrete Plant and Bitumen plant" at Gajwel Siddipet, belonging to Tirumala Earth Movers. Dr. G. Shravan Kumar Associate Professor, M.V.S.S.Sastry, Associate Professor, Subba Rao, Lab Technician accompanied the students.



# Featured Alumni



Divya Deepankar is a 2013 alumni of Civil Engineering Department.

She is currently working as a Research Engineer at BSRIA in Bracknell UK in the field of Life Cycle Assessment and Life Cycle Costing Analysis of building services. She has worked a long way to the current stage in her career. Divya has rendered her services in the past as a Project Associate at Indian Institute of Science and also as a Research Associate in the Department of Structural Engineering. She has been a Management trainee at Vision Ventures Pvt.Ltd, Hyderabad. She had also worked as a Project Volunteer in C.P.R Environmental Educational Centre, Hyderabad. She received a Gold Medal in 2013 for securing highest marks in Department of Civil engineering of Osmania university. Divya had also bagged the BEST STUDENT 2013 and BEST GIRL STUDENT 2013 awards in the college. Another jewel in Divya's crown is the BEST STUDENT IN CIVIL ENGINEERING award for the year 2013.



SAHAAY

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