



DRIVE THE ROLLER COASTER RIDE

CIVIL ENGINEERING DEPARTMENT NEWS LETTER

2017-18 | JULY – DECEMBER 2017 |

HOD s Message:



This newsletter published for the year 2017-18 is dedicated entirely to the subject of roads. Especially highways. In the prior edition historical prominent highways were discussed. Current edition is entirely dedicated to the amazing roads constructed though dangerous areas that gives an immense pleasure of roller coaster while we drive

DEPARTMENT VISION

"To enrich the society through Civil Engineering education for socio-economic development and welfare of the people."

DEPARTMENT MISSION

"An integrated development of Civil Engineering Professionals with technological knowledge and managerial skills; possessing environmental, ethical and human values".



Program Educational Objectives

Upon graduation, students of the program will:

- I. To provide basic scientific training to the students so as to solve Civil Engineering problems with scientific outlook rather than mere continuation of traditional practices.**
- II. To provide training in basic engineering sciences so that students apply the concepts of basic engineering sciences to the solution of Civil Engineering problems.**
- III. To train the students in the broad areas of Civil Engineering and inter-disciplinary areas.**
- IV. To mould the students professionally competent with managerial and communication skills.**
- V. To train the students to mitigate natural /environmental disasters and to inculcate professional ethics and human values.**



Program Outcomes

- **Graduates will have an ability to apply the knowledge of basic sciences like Physics, Mathematics and Chemistry for the solution of Civil Engineering Problems.**
- **Graduates will have sound knowledge in basic engineering sciences like Engineering Mechanics, Solid Mechanics, Fluid Mechanics to solve Civil Engineering problems.**
- **Graduates will have generalized knowledge in Civil Engineering and interdisciplinary knowledge to design and execute Civil Engineering Projects.**
- **Graduates will have an ability to design and conduct experiments as well as to analyse and interpret data.**
- **Graduates will have an ability to demonstrate knowledge and understanding of engineering and management principles and apply these principles in their profession.**
- **Graduates will have an ability to identify, formulate and solve engineering problems.**
- **Graduates will have requisite knowledge to pursue Post-graduate / Research Programmes and for life-long learning.**
- **Graduates will have computational and drafting skills.**
- **Graduates will be professionally competent with managerial and communication skills.**
- **Graduates mitigate environmental problems and natural disasters like earthquakes, cyclones and floods.**
- **Graduates perform professional duties with environmental, ethical and human values.**
- **Graduates will have broad education necessary to understand the impact of Civil Engineering solutions in global societal context.**



Killar to Pangri Road via Kishtwar, India

This gut-wrenching highway only applies to individuals who regularly drive in the hills and have steel nerves. Killer to Pangri road is considered as the most dangerous road in the world.

This rocky, fragile mountain pass is about 70 miles long, open only during the summer months.

Especially deadliest is a six-mile stretch of road; rocky overhangs look like they might collapse on at any moment.

Road of Death, Bolivia

It's a good idea to travel on a highway nicknamed "The Road of Death."

The Road of Death, also known as Bolivian Yungas Road, connects La Paz to Coroico, which is almost 50 miles as a one-lane dirt road, with vertical drops of as much as 3,000 feet down into the Amazon rainforest.

Shockingly, there are over 200 hairpin turns on the road. cyclists challenge the Death Road, and unsurprisingly, consider the road from South Yungas to Cochabamba is a death trap



Department of Civil Engineering important mile stones in roller coaster ride journey.

Dr.M.RamaRao, Professor in Civil Engineering Department has taken the charge of HoD, Civil Department with effect from 07.12.2017.

Guest Lectures Organized

- Dr. RaghavaRao, Kommalapati, Director, Center for Energy & Environmental Sustainability (CEES), Prof. Department of Civil and Environmental Engineering, Prairie View A&M University delivered a lecture on 'Energy and Environmental Sustainability: Outlook, Challenges and Opportunities' on 22 Dec.2017. In his lecture, he enlightened students about various career opportunities in Civil Engineering together with relevant challenges faced by Civil Engineers in the society. He also enlightened the students on the need of construction of Environmentally Sustainable Construction Practices in construction industry.*
- Dr. T. Thyagarajan, Associate Professor, Department of Civil Engineering, IITM, Chennai delivered lecture on 'Lime precipitation technique' on 30 Nov.2017. In his lecture, he enlightened students about role of Lime Precipitation techniques in Ground Improvement.*

Faculty External achievements in roller coaster ride journey

Guest Lectures Delivered

- Professor, Dr. M. Rama Rao, delivered a guest Lecture on 'Problems with Expansive soils-solutions & Geotechnical Engineering through Mind Maps' for the benefit of Civil Engineering organized by SRK institute of Engineering.*

& Technology, Vijayawada on 08, Dec.2017 in Workshop on trends in Geo-Technical Engineering.

- *Professor, Dr. M. Rama Rao, delivered a guest Lecture on 'Cement stabilised fly ash cushion in expansive soils' & 'Civil Engineering through Mind Maps' for the benefit of B.Tech (Civil) students organized by Dhanekula Institute of Engineering & Technology, Ganguru, Vijayawada on 23, Nov.2017.*
- *Professor, Dr. P.Ch. Sanjeeva Rao, delivered a guest Lecture on 'Urban Rain Water Harvesting' organized by Andhra Pradesh Human Resources Development Institute APHRDI, for the benefit of various government officials at Bapatala on 21.11.2017.*
- *Professor, Dr. M. Rama Rao, delivered a guest Lecture on "Geotechnical Engineering made easy through Mind Maps" for the benefit of Civil Engineering students of BVC Engineering College, Odalarevu, East Godavari on 13.09.2017.*
- *Professor, Dr. M. Rama Rao, delivered a guest Lecture on 'Mind Maps and its applications' for the benefit of Civil Engineering students organized by Chalapathi Institute of Technology, Mothadaka, Guntur on 12.07.2017.*

Research Paper Publications

Dr.k.SSairam, 'Stability of web and flange tapered steel cantilever thin-walled beams and beam-columns' i-Managers Journal of Structural Engineering, Vol.6, No.2, PP: 20-24, June-August 2017

Paper Presentations in Conferences

- N, V. Sairam Kumar, K.S. Sairam 'Experimental study on properties of concrete containing crushed rock dust as a partial replacement of cement' at International Conference on Emerging Trends in Materials and Manufacturing Engineering, organized by Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli, (NIT, Trichy) in association with Indian Institute of Metals, Trichy Chapter and Indian Welding Society, during 10-12 March, 2017.

Faculty footsteps in learn to drive smooth roller coaster ride

Conferences/ Workshops/Short term Courses Attended

- Professor A.Srinivasa Prasad, Associate Professor R.SurendraBabu, Assistant Professors M.Srikanth Kumar, K.Leela Krishna, B.Bhaskar Singh, Syed SyedAhammed, U. Pallavi attended AICTE approved Faculty Development Programme on 'Foundation programme in ICT for Education' Conducted by IIT Bombay through ICT during August 3-September 07, 2017.
- Assistant Professors S.V.Satyanarayana, B.KrishnaChaitanya attended one day National Workshop on 'Construction Technologies for Speedy Constructions of Structures' organised by Department of Civil Engineering, P.V.P Siddhartha Institute of Technology, Vijayawada on 16 Sep., 2017.
- Professor M.RamaRao attended a one day National Conference on 'Problems and issues with expansive soils'

organized by Chandigarh Chapter in association with Punjab University at Bhubaneswar on 8 October, 2017.

- Professor A.Srinivasa Prasad, Associate Professor R.SurendraBabu Assistant Professors M.Srikanth Kumar, K.Leela Krishna, B.Bhaskar Singh, Syed SyedAhammed, U. Pallavi attended AICTE approved Faculty Development Programme on 'Pedagogy for Online and Blended Teaching-Learning Process' conducted by IIT Bombay through ICT during September14-October 12, 2017.*
- Assistant Professor M. Srikanth Kumar attended a two day Workshop on 'ODF+ Faecal Sludge And Septage Management' for Academic Institutions in Andhra Pradesh, organized at Novotel, Vishakhapatnam during 13-14 October, 2017.*
- Professor A.Srinivasa Prasad, Associate Professor, P.V.S. Maruthi Krishna, Assistant Professors M.L.N. Krishna Sai, S.V.SatyaNarayana, M.Srikanth Kumar, K.Leela Krishna, B.Bhaskar Singh attended a two day National Seminar on 'Advances in Nanocomposite Materials & Their Fabrication (ANMF-2017)' organized by Department of Mechanical Engineering, R.V.R & J.C CE. during 2-3, November, 2017.*
- Assistant Professor K. Ramesh Babu, K.Anjeneyulu attended a Faculty Development Program (FDP) on 'Latest Software Applications in Civil Engineering'sponsored by AICTE, NEW DELHI, organised by S.R.K.R. Engineering College, Bhimavaram, during Oct. 23 - Nov.4, 2017.*

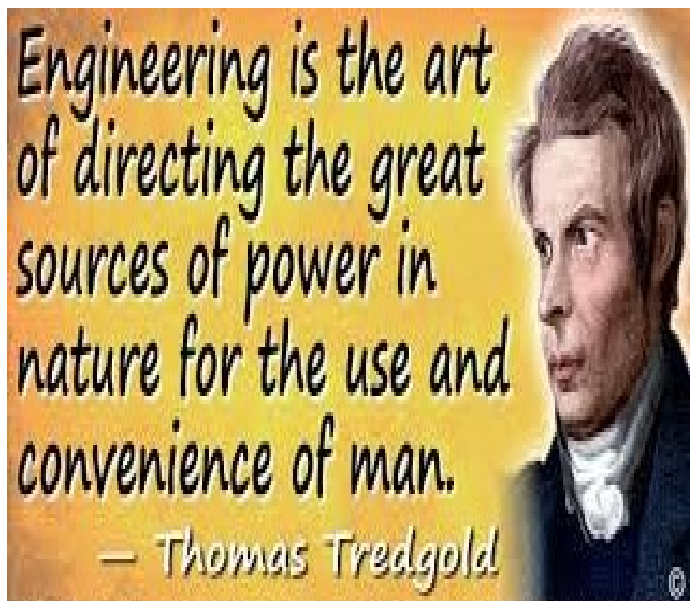
- Professor, Dr. P.Ch. SanjeevaRao, attended a five days short term course on 'Product Design and Development' Organized by NITTR, Chandigarh through ICT during 7-11, November 2017.
- Professor, Dr. M. Rama Rao attended a two day National Conference on 'Geotechnics for Natural and Engineers Sustainable Technologies' IGC 2017, Geo Nest organized by the Indian Geotechnical Society, Guwahati Chapter (NE) and Indian Institute of Technology, Guwahati, Assam, India, during 14-16, Dec.2017.
- Assistant Professor Y.Naga Mahesh, attended a two day National Conference on 'Transforming Education for Peace' TECH-2017 organized by UNESCO-MGIEP in collaboration with Andhra Pradesh State Government, during 16-18 December, 2017.

Small Coaster adventures for a big ride

Field trips

3rd year Civil Engineering students visited Durga Flyover, Vijaywada & foundations works of IAS Officers Quarters at Rayapudi on 09 Dec.2017. During the visit students were explained launching of Spine and Wings of Flyover, and piling operation for foundations works of IAS Officers Quarters at Rayapudi, Amaravati.

Old friends met due course of ride:



Alumni meet

An Alumni meet was conducted on 01.07.2017 for the batch students of 1998-92 batch, on the eve of completion of 25 years of their graduation. Alumni from various fields shared their experiences in their respective fields with the students of Civil Engineering. They enlightened the students about various career opportunities ahead after the completion of graduation



Fruits of completion of roller coaster ride

Academic Results

<i>Year</i>	<i>Total Appeared</i>	<i>Total Pass</i>
<i>IV/IV B.Tech(VII Semester)</i>	<i>192</i>	<i>167</i>
<i>III/IV B.Tech(V Semester)</i>	<i>203</i>	<i>151</i>
<i>II/IV B.Tech(I Semester)</i>	<i>202</i>	<i>97</i>
<i>I/IV B.Tech(I Semester)</i>	<i>172</i>	<i>95</i>
<i>I/II M.Tech(II Semester)</i>	<i>15</i>	<i>15</i>
<i>M.Tech(IV Semester)</i>	<i>16</i>	<i>16</i>

Let us have a look at the last roller ride not yet completed

Taroko Gorge Road, Taiwan



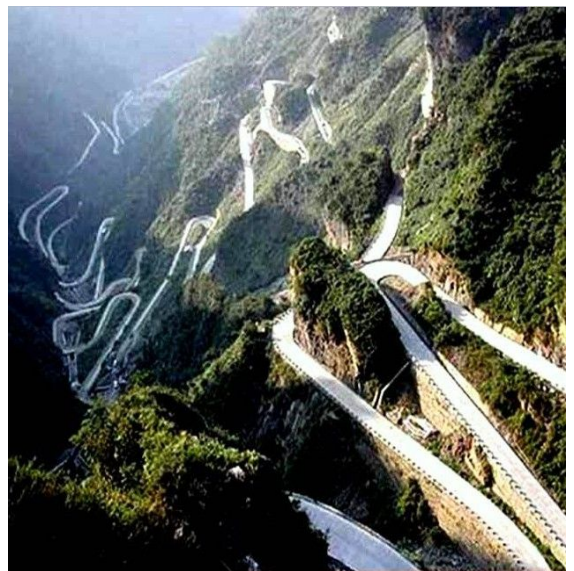
The Taroko Gorge is a must-see site in Taiwan as it is located on the country's east side in a 19-kilometer-long valley, Taroko Gorge is just one of Taiwan's eight national parks.

If you are considering a road-trip on this beautiful highway, it is one of the scariest roads in the world; The highway itself is sculpted out of the face of the hill. Also recognized as the Central Cross-Island Highway, the Taroko Gorge Road has all the aspects that a safe

highway should have except one – the road is very narrow and runs across the mountain's face.

Only one big car can move through at one moment (such as a tourist bus).

The Taroko Gorge Road is a dangerous mountain corridor, like the Guoliang Tunnel Road in China. Taiwanese guidebooks mention that it took 450 lives to build.



*Dr.K.Srinivasu
H.O.D, Civil*

DRIVE THE ROLLER COASTER RIDE

EDITOR: Dr. M.Rama Rao H.O.D, C.E

CO-EDITOR:

Mrs. P.Samatha Chowdary(Asst.Prof.)

J.Usha Kranti (Asst.Prof.)

DEVELOPERS:

K.VAMSIKRISHNA(Y17CE088)

K.JAGDEESH(Y17CE069)

COMMUNITY MEMBERS:

K.VAMSIKRISHNA(Y17CE088)

K.JAGDEESH(Y17CE069)

I.KARUNA SAGAR(Y16CE851)

B.V.RAVI TEJA(Y16CE813)