



CIVIL DEPARTMENT NEWS LETTER  
2018-2019  
|JULY - DECEMBER 2018|

## HOD s Message:



This newsletter published for the year 2018-19 is dedicated entirely to the subject of waste management strategy of Reduce, Reuse, and Recycle (three R's). Especially methods implemented by companies. Current edition is entirely about the various companies CEO's who implemented different methods to carry on the revolution of the three R's, which gives us a good knowledge about the environment protection.

## 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:
  - 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.
  - To provide training in basic engineering sciences so that students apply the concepts of basic engineering sciences to the solution of Civil Engineering problems.
  - To train the students in the broad areas of Civil Engineering and inter-disciplinary areas.
  - To mould the students professionally competent with managerial and communication skills.
  - 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 inter-disciplinary 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

LET'S SEE HOW  
THEY GOT BRAND  
FROM BIN!!!!

GO GREEN



## *LESS POWER MORE EFFICIENT*

Microsoft is a huge company that has more than 44,000 employees working in 125 buildings placed over 500 acres in Redmond, Washinton. IT saw a 27% decreases in power consumed after their IT department created a specific power management system that efficiently control 160,000 of their computers



## *WASTE AS A BOOST*

IN 2018, Adidas expects to make 11 million pairs of shoes with recycled ocean plastic. That's more than double what it made in 2018. Adidas says the partnership has prevented 2,810 tons of plastic from reaching the oceans. Adidas's goal is to replace all virgin polyester with recycled polyester by 2024. Currently, more than 40% of Adidas apparel uses recycled polyester.



## *HERO FROM ZERO*

In 2013, Toyota became a founding member of the U.S. Zero Waste Building Council. By 2015 Toyota of North America reduced, reused, and recycled its way to a 96% decrease in total non-regulated waste production.



## *BIGGER THINGS WITH LITTLE WASTE*

Google is a company of big ideas so it makes sense that they would commit to the big idea of becoming zero waste. To achieve a zero company waste status, Google is focusing on their data centers first. Out of their 14 data centers, 6 were zero waste-to-landfill last year. In addition to their focus on the data centers, Google recycles and reuses 86% of their non-data center waste globally.

# Department of Civil Engineering small foot steps to a greener community

## National Seminar

- A two-day National Seminar on 'NBC 2016 and Indian Standards: Innovations and Case Studies in Geotechnical Engineering ' was organized by the Department of Civil Engineering, R.V.R. & J.C. College of Engineering, Guntur in association with Indian Geotechnical Society, Guntur Chapter and Bureau of Indian Standards, New Delhi during 6-7 July, 2018.

## Guest Lectures Organized

B N D Narasinga Rao, HoD, Civil Engineering, ANITS College of Engineering, Visakhapatnam delivered a lecture on 'Utilization of flyash in concrete and soil structures' on the occasion of Birth Anniversary of Karl Von Terzaghi, Father of modern Soil Mechanics on 06 Oct., 2018. In his lecture, he enlightened students about various best technologies available for utilization of fly ash, in concrete and soil

# Faculty foot prints in achievement of 3R's

## Honors

- Dr.M.Rama Rao, Co-chaired Technical Session - 3 entitled 'Land Slides' along with Prof. N K Samadhiya, IIT Roorkee, Indian Geotechnical Conference 2018 , IISc Bangalore, during 13-15Dec.,2018.
- Dr.M.Rama Rao, acted as Vice chair to morning Technical Session on 'National Seminar on Geotechnical Problems - Case Studies (NSGPC-18)' organized by CE-AMD SGSITS in .association with IGS Indore Chapter at Golden Jubilee Auditorium of S.G.S.I.T.S. Indore (M.P.) on 13th October 2018.

## Guest Lectures Delivered

Dr.M.Rama Rao delivered a lecture on the following:

- 'Mind Map – your key to success' and 'Case studies in Geotechnical Engineering Practice', organized by CIET, Lam, 31Oct. 2018. In his guest lecture, he enlightened participants about various innovative techniques of learning using Mind Map.
- 'Mind Maps', Rotary club, Guntur, 4 Nov., 2018. In his guest lecture, he enlightened participants about various applications of Mind Maps.

- 'A Few case studies in Geotechnical Engineering', Faculty Development Programme on Forensics in Geotechnical Engineering, 17Nov. 2018. In his guest lecture, he enlightened participants about various case studies of Geotechnical Engineering.
- 'Case studies in Geotechnical Engineering Practice', one-day National Seminar on Case studies in Geotechnical Engineering practice, at Malineni Perumalu Group of Institutions, 07Jan., 2019. In his guest lecture, he enlightened participants about various case studies in Geotechnical Engineering practice.

### Research Paper Publications

1. N.Venkata Sairam Kumar, Prof. K.S.Sai Ram,' Sustainable use of waste crushed rock dust in Concrete as Partial Replacement of Cement' Pollution Research (Scopus Indexed), Vol. 37, No. 3, PP: 684-689, October 2018.
2. Assistant Professor, D. Neeraj Varma, 'Influence of Processing Temperature on Strength and Structural Characteristics of Alkali-Activated Slag Lateritic Soil' organized by Indian Geotechnical Conference 2018 at IISc, Bangalore during 13-15 December, 2018.
3. Prof K.S.Sai Ram , K.Sai Vivek, P.G student,' Design of Steel Gusset Plates', Journal of Structural Engineering (Scopus Indexed), Vol. 45, No. 5 pp.399-410, Dec.2018-Jan 2019.
4. Prof. K.S.Sai Ram, K.Prathyusha, P.G student ' Free Vibration of Functionally Graded cylindrical shell panel with and without cutout' Journal of Solid Mechanics (Scopus Indexed), Vol. 10, No. 3 pp.672-687, 2018.

## Staff learners for effective strategies for 3R's

### Conferences/ Workshops/ Attended

1. Associate Professor R.Surendrababu, Assistant Professors V.Phani Sankar, Syedsyed Ahmad, U.Pallavi attended Short Term Training programme on 'Outcome based Education and Accreditation', organized by NITTR, Kolkata through ICT at R.V.R & J.C college of Engineering during 24 -28, Sep. 2018.
2. Assistant Professor, D.Neeraj Verma attended Workshop on 'Good Construction Practices' during, 1-2 Oct., 2018, organised by Department of Civil Engineering in association with IGS Visakhapatnam Chapter and ICI Visakhapatnam Chapter.
3. Assistant Professor, D.Neeraj Verma attended IDM training program on 'Earthquake Risk Mitigation and Management' Andhra University during 8 -12 Oct. 2018.
4. Assistant Professor J.Usha Kranti attended AICTE approved 12 week course on 'Advanced Concrete Technology' through NPTEL online during July 30-Oct.21.
5. Assistant professors, V.Phani Sankar, G.Venkata Krishna attended Two day Training programme on 'Office 365', organized by Department of Computer Science And Engineering during 30-31 Oct. 2018.
6. Professor and H.o.D Dr.M.Rama Rao attended National Seminar on 'Geotechnical Problems - Case Studies (NSGPC-18)', at Golden Jubilee Auditorium of S.G.S.I.T.S.

Indore (M.P.), organized by CE-AMD SGSITS in association with IGS Indore Chapter on 13th October.

7. Professor and H.o.D Dr.M.Rama Rao, Assistant Professor, D.Neeraj Verma attended 'Indian Geotechnical Conference 2018', IISc Bangalore during 13-15' Dec., 2018.
8. Professor Dr.A.Srinivas Prasad, Assoc.Professor, P.V.S.Maruthikrishna, Asst.Professors, M.Srikanth kumar , K.Leela krishna attended one day seminar on 'Case studies in Geotechnical Engineering Practices ( CGEP-2019)' organized by Mallineni Peramuel Group of institutions, Pulladigunta on Jan.7, 2019.

## *NEW Bodies framed for developing strategies*

### *Student Chapters*

Indian Concrete Institute (ICI) Student chapter has been approved by Indian Concrete Institute in November 2018

## *Short trips arranged to understand need of development of sustainable environment*

### *Industrial Tour*

- 2/4 B.Tech students visited Durga fly over and Amaravati Capital road work on 22.12.2018 to get an insight of various developments in New Amravathi capital region done under the guidance of APCRDA.

- 3/4 B.Tech (B & C section students) visited Durga fly over and Amaravati Capital road work on 01.12.2018, 30.06.2018 to get an insight of various developments in New Amravati capital region done under the guidance of APCRDA
- 2/4 B.Tech students visited Polavaram, Patti Seema and Dhawleswaram barrage on 20.07 2018 to get an insight of construction of different bridge structures and irrigation structures.

**Success steps of 3R'S**  
**Academic Results**

Year	Total Appeared	Total Pass	Pass %
IV/IV B.Tech( VII Semester)	207	172	83.09
III/IV B.Tech( V Semester)	169	110	65.09
II/IV B.Tech( III Semester)	197	114	57.87
I/IV B.Tech(I Semester)	172	95	55.23
I/II M.Tech(I Semester)	18	16	88.9

M.RAMA RAO  
 HoD, CIVIL

**Reduce Reuse Recycle**

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