



**AFTER IRRIGATION**

**CIVIL ENGINEERING DEPARTMENT NEWS LETTER**

**2014-15 | JULY – DECEMBER 2014 |**



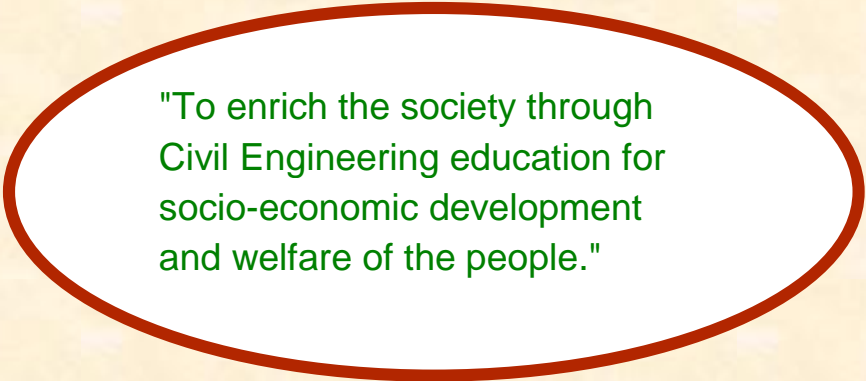
## **HOD s Message:**



This newsletter published for the year 2014-15 is dedicated entirely to the subject of Water Resources Engineering. Especially irrigation . Current edition is entirely dedicated to the various methods used after irrigation across the World.



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.**

*Shall We Start  
Piping The  
Information*

**!!!!!!!!!!!!**

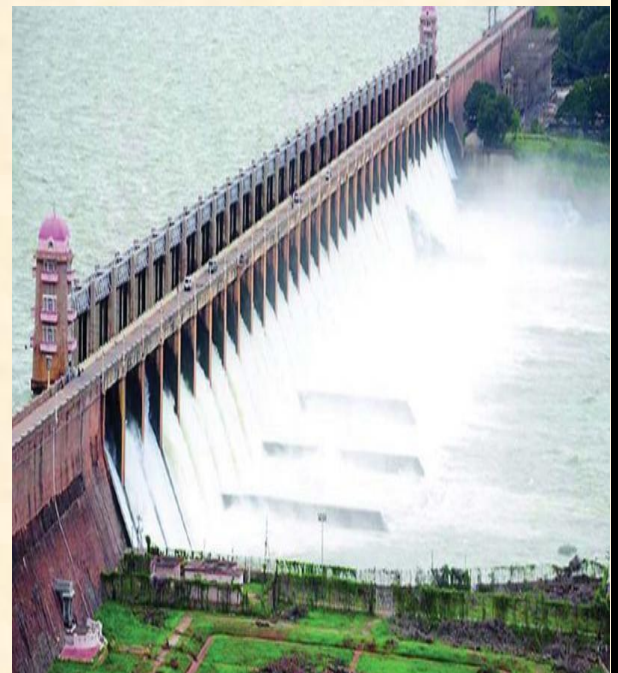
# Canals



- *Canals used to be the most important source of irrigation up-to 1960s, but in the 1970s they yielded first place to wells and tube wells and now constitute the second most important source of irrigation in India.*
- *Most of the canals in India today are perennial. The net area under canal irrigation is about 15.8 million hectares.*

# DAMS

- *Dams used for irrigation projects have helped provide drinking water to a growing rural population, control flood and prevent drought-related damage to agriculture.*
- *Free electricity and attractive minimum support price for water intensive crops such as sugarcane and rice have encouraged ground water mining leading to groundwater depletion*



## Reservoirs



- *The reservoirs can be created in a number of ways, including controlling a watercourse that drains an existing body of water, interrupting a watercourse to form an embayment within it, through excavation, or building any number of retaining walls or levees.*
- *Tank reservoirs store these in ground-level, elevated, or buried tanks.*

## Weirs

- *A weir or low head dam is a barrier across the width of a river that alters the flow characteristics of water and usually results in a change in the height of the river level.*
- *There are many designs of weir, but commonly water flows freely over the top of the weir crest before cascading down to a lower level.*





## DEPARTMENT OF CIVIL ENGINEERING

### *National/International Conferences /Seminars/Workshops Organized:*

- A two day National level workshop on 'Computational mechanics' was organized by the dept. of Civil Engineering Department, during 15th and 16th July 2014. Resource persons, Prof. B.Nageswara rao IIT madras Prof.K.Srinivasu H.O.D, Civil engineering department R.V.R & J.C Prof.V.Bala Krishna V.R.Siddhartha college of engineering, Prof.K.S.Sairam Civil engineering department R.V.R & J.C gave talks on topics like applications of finite element modeling and their interpretation in research analysis.- Nearly, 40 faculty members from various engineering colleges and students from various engineering colleges across the State and students from R.V.R & J.C got benefited from this workshop.
- A one day State level workshop on 'Advanced Surveying Equipment' was organized by the dept. of Civil Engineering Department on 26th November 2014. Resource persons from Roorkee gave talks on topics like Advanced survey systems 3D Scanner and differential Geographical positioning system and other equipment's along with field practical's. Nearly, 40 field engineers from various engineering Departments like R&B Panchayati raj and rural authorities etc. and final year students from R.V.R & J.C got benefited from this workshop.

### *Guest Lecture /Talks conducted*

K. Padmaja chief engineer Panchayati raj department, Hyderabad, advised all the final year students of Civil Engineering on 'Urban roads -Failures and remedies' . In her guest lecture, K. Padma enlightened students on some of the latest failures of roads and new construction

practices .The talk was concluded after his interaction with the students for half an hour on 15th September 2014.

Hari Krishna Meka Regional sustainability Manager At alfuttaim carillion Dubai (UAE) advised all the final year and third year students of Civil Engineering on “Concepts of Green Buildings” organized by Civil Engineering Association on 17th December for the benefit of 3rd year and final year students.

### *Research Papers Published in Refereed Journals: (whichever sample report applicable)*

A research paper on “A Review on Use of Metakaolin in Cement Mortar and Concrete written by Dr.Kota Srinivasu, Professor and HOD civil Engineering Department Krishna Sai M.L.N, Assistant professor Civil Engineering department N.V.Sairam Kumar , Assistant Professor, Civil Engineering department was published in the International Journal of Innovative Research in Science, Engineering and Technology Vol. 3, Issue 7, July 2014 PP:14697-14701.

### *Conferences/ Symposia/Workshops Attended*

- P.Samatha Chowdary Assistant Professor attended a 5 day workshop on “Pavement evaluation techniques and their application for maintenance and rehabilitation” organized by Central Road Research Institute CRRI, New Delhi during 24th to 28th November 2014.

- M.Srikanth Kumar Assistant Professor attended a 5 QIP Short term course on “Air Quality Modelling” organized by IIT, Chennai New Delhi during 10th to 15th November 2014.
- M.Srikanth Kumar Assistant Professor attended a one day national seminar on “Recent trends in environmental engineering ” organized by P.V.P Siddhartha Institute of Technology, Kanuru, Vijayawada on 17th October 2014.
- R.Surrendra Babu, Associate Professor attended a 5 day International Workshop on “ Recent developments in design and construction for precast technology(REDECON 2014)” conducted by Association of consulting civil engineers (India) Bangalore Centre and MHRD Government of India at NIMHANS Convention center Bangalore during 9th to 13th November 2014.
- Dr. Kota.Srinivasu, Professor & HOD, attended national conference on “entrepreneurship education” on 19th September organized by AICTE, New Delhi.
- Dr. Kota.Srinivasu, Professor & HOD, attended one week workshop on “Computational Dynamics” Organized by IIT madras during 1-5th September 2014.
- Dr.M.Rama Rao, Professor, J.Usha Kranti, P.Samatha Chowdary, Y.Pavani Assistant Professors Civil Engineering department attended one day national seminar on “Problems related to

*infrastructure Geotechnics” (SPRING) at KKR and KSR Institute of technology , Vinjanampadu, Guntur on 23rd August 2014*

- Dr. Kota.Srinivasu, Professor & HOD, Dr.K.Sai Ram ,Dr.M.Rama Rao, Dr.P.Ch. Sanjeeva Rao Professors, R.Surrendra Babu, P.V.S.Maruthi Krishna Associate Professors, M.L.N.Krishna Sai, J. Usha Kranti, , M. Srikanth Kumar, P.Samatha Chowdary, S.V.Satyanarayana, N.V.Sairam Kumar, K.Priyanka, P.Raghavend Rao, K.Parvathi Manusha, Assistant Professors, Attended a two day workshop on “Computational Mechanics” at RVRE&JC College of Engineering during 15th and 16th July 2014 organized by Department of civil and mechanical Engineering, R.V.R.&J.C college of engineering, Chowdavaram ,Guntur*

### *Faculty Recruitment:*

*The following members of faculty were recruited in the Dept. on 18th August, 2014*

- 1.K.Susmitha Chowdary*
- 2.R.Vaishnava Kumar*
- 3.N.Tejaswini*
- 4.Ch.Sri Valli Lakshmi*
- 5.Y.Madhavi*
- 6.R.Satya sai deep*

*Dr. A.Srinivasa Prasad Joined as Professor in the department of civil engineering on 6th November 2014*

## *Student Industrial Tours and Short Visits*

IV B.Tech civil engineering went on technical visit to study water tanks at housing board and water treatment plant at takellapadu on 18th October 2014.

## *Academic Results.*

<i>Year</i>	<i>Total Appeared</i>	<i>Total Passed</i>	<i>Pass percentage</i>
<i>I/IV B.Tech</i>	<i>176</i>	<i>144</i>	<i>81.8</i>
<i>III/IV B.Tech</i>	<i>132</i>	<i>102</i>	<i>77.27</i>

### *1. Education day- Abul kalam azad birthday*

National Education day was celebrated on November 11 2014 in Decennial seminar hall of R.V.R & J.C College of engineering on the eve of Sri. Abul kalam azad jayanti which was followed by the felicitation of Prof.M.Venkateswarao , Professor and HOD Chemical department, Dr.M.Rama rao, Professor , Civil department , and M.Sudhakar Associate Professor maths and humanities department for the remarkable achievements .National unity day- sardhar vallabiah patels birthday

National unity day was celebrated on October 31, at R.V.R & J.C College of engineering on the occasion of jayanti of sardhar vallabiah patel .

### *2. Engineers day*

A Technical exhibition has been organized in GRR Auditorium of R.V.R. & J.C College of engineering on September 15th and 16th in the view of Engineers day in

*which around 169 exhibits have been prepared by various students of R.V.R.J.C. Around 800 students from various schools and colleges have got benefited by visiting the exhibition.*

*(Dr. K.Srinivasu)*

*Professor & Head*

AFTER IRRIGATION

EDITOR: Dr. K.Srinivasu

CO-EDITOR: Mrs. P.Samatha Chowdary

DEVELOPERS:

G.R.KRISHNA REDDY(Y12CE828)

S.SURYA SAI(Y12CE900)

COMMITTY MEMBERS

G. VINOD(Y13CE841)

M.HARIKRISHNA(Y13CE897)

G.R.KRISHNA REDDY(Y12CE828)

S.SURYA SAI(Y12CE900)