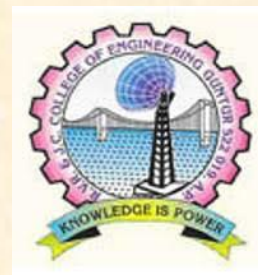




**BEFORE IRRIGATION**

**CIVIL ENGINEERING DEPARTMENT NEWS LETTER**

**2014-15 | JAN - JUNE 2014|**



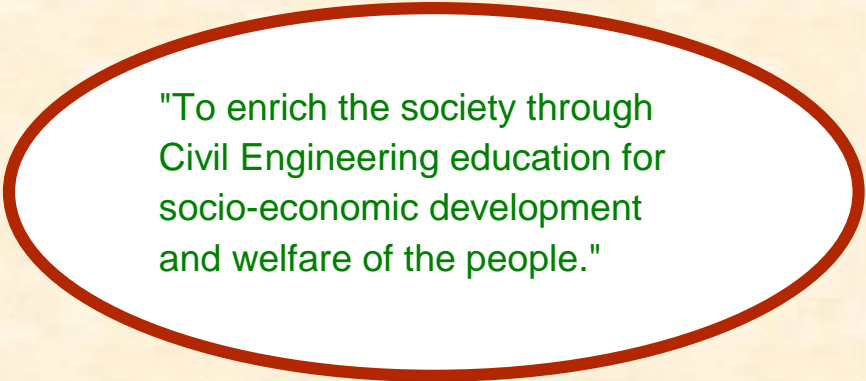
## **HOD s Message:**



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 before irrigation across the World.



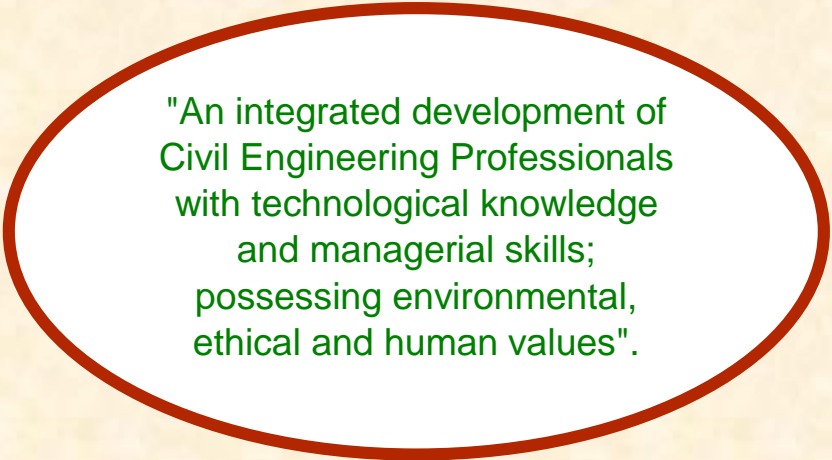
DEPARTMENT  
VISION



"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  
Digging The  
Information*

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

# Moat



- Also called the pulley system, it involves pulling up water from a well or other such source to irrigate the land.
- It is an extremely time consuming and labour intensive system, but it is very cost efficient.
- Also, wastage of water is avoided when using a moat system of irrigation.

# Chain pump

- A chain pump consists of two large wheels connected by a chain.
- There are buckets attached to the chain. One part of the chain dips into the water source.
- As the wheel turns, the bucket picks up water.
- The chain later lifts them to the upper wheel where the water gets deposited into a source.



## Dhekli



- The Tower is founded on It is a system of drawing water from a well or such similar source.
- Here we tie a rope and bucket to a pole.
- At the other end, we tie a heavy stick or any other object as a counterbalance.
- And we use this pole to draw up water.

## Rahat

- Rahat system of irrigation uses animal labour.
- Above the well, we tie a large wheel.
- An ox or cow would turn the wheel to draw the water from the well.





## DEPARTMENT OF CIVIL ENGINEERING

### Results Analysis :

Year	Total Appeared	Total Passed	Pass percentage
II/IV B.Tech	138	97	70.29
III/IV B.Tech	126	101	80.15
IV/IV B.Tech	146	145	99.32

### GATE -2014 Results :

S.No	Name of the Dept .	No of students qualified	Highest AIR
1	Civil Engineering	26	980

### 4. Research Papers Published in Journals :

• Venkata Sairam Kumar N, Assistant Professor , R,Surendra babu, Associate Professor, J. Usha Kranthi Assistant Professor Civil Engineering Department “ Shear walls- A Review” International journal of engineering research science and technology, Vol. 3, Issue 2, February 2014, PP:9691-9694.

## *Seminars/Workshops/Conferences attended by the Faculty*

- *Dr.K.Srinivasu Professor and Head of the Department Attended workshop on 'NPTEL online certification courses' organized by IIT, Madras on 25th February 2014.*
- *Dr.K.Srinivasu Professor and Head of the Department Attended workshop on "Outcome based Education" Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.*
- *Dr.K.Srinivasu Professor and Head of the Department attended one day national seminar on "Problems Associated with Geotechnics of Expansive soils" Organized by IGS-Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014.*
- *Dr.K.S.Sairam, Professor attended workshop on "Outcome based Engineering Education" Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.*
- *Dr. M. Rama Rao, Professor attended workshop on "Outcome based Engineering Education" Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.*
- *P. V. S. Maruthi Krishna, Associate Professor attended workshop on "Outcome based Engineering Education" Organized R.V.R.J.C College of*

Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.

- R. Surendra Babu attended workshop on “Outcome based Engineering Education” Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.
- M. L. N. Krishna Sai Assistant professor attended workshop on “Outcome based Engineering Education” Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.
- J.Usha Kranti, Assistant professor attended workshop on ““Outcome based Engineering Education” Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.
- M.Srikanth Kumar Assistant professor attended workshop on “Outcome based Engineering Education” Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.
- S.V. Satya Narayana, Assistant professor attended workshop on “Outcome based Engineering Education” Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.
- Venkata Sairam Kumar N, Assistant Professor attended workshop on “Outcome based Engineering Education” Organized R.V.R.J.C College of

Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.

- Samatha Chowdary P, Assistant Professor attended workshop on “Outcome based Engineering Education” Organized R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 6th June 2014.
- Dr.K.S.Sairam, Professor attended one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS-Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- Dr. M. Rama Rao, Professor attended one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS-Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- P. V. S. Maruthi Krishna , Associate Professor attended one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS-Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- R. Surendra Babu Associate Professor attended one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS-Guntur Chapter and R.V.R.J.C College of

Engineering, at R.V.R.J.C College of Engineering on 25th January 2014.

- M. L. N. Krishna Sai Assistant professor attended one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS - Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- J.Usha Kranti, Assistant professor attended one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS - Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- M.Srikanth Kumar Assistant professor one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS - Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- S.V. Satya Narayana, Assistant professor one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS - Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- Venkata Sairam Kumar N, Assistant Professor one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS -

Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014

- Samatha Chowdary P, Assistant Professor one day national seminar on “Problems Associated with Geotechnics of Expansive soils” Organized by IGS-Guntur Chapter and R.V.R.J.C College of Engineering, at R.V.R.J.C College of Engineering on 25th January 2014
- R. Surendra Babu Associate Professor attended workshop on “NDT Techniques for assessment of Reinforced concrete structures” Organized by Centre for Disaster Mitigation and Management, VIT university Vellore on 21st February 2014.

### *Seminars/workshops organized by the department :*

- Civil engineering department in association with IGS-Guntur Chapter has organized a one day national seminar on “Problems Associated with Geotechnics of Expansive soils” at R.V.R.J.C College of Engineering on 25th January 2014.
- A one day Workshop on “Outcome based engineering education” has been organized on 6th June 2014 for the benefit of faculty members of the college

## *Guest Lectures Delivered by the Faculty*

- *Dr.K.Srinivasu, Professor and Head of civil engineering delivered a guest lecture on “Harmonic and Impulsive loading Response in Structural Dynamics” at PVP Siddhartha Institute of Technology on 6th February 2014.*
- *Dr.K.Srinivasu, Professor and Head of civil engineering delivered a lecture on “Finite Element Analysis for Bio Medical Application” for AICTE sponsored National Seminar on Advances in Biomaterials for Medical applications at RVRE&JC College of Engineering on 15th march 2014.*
- *Dr.K.Srinivasu, Professor and Head of civil engineering delivered a lecture on “Implementation of outcome based engineering education for excellent teaching learning Process” Organized by R.V.R.J.C College of engineering, Chowdavaram Guntur for Outcome based education on 6th June 2014.*
- *Dr.K.Srinivasu, Professor and Head of civil engineering delivered a lecture on “Outcome based accreditation programme” in E-Class room of Silver Jubilee block R.V.R.J.C College of engineering, Chowdavaram Guntur.*
- *R.Surendra Babu, Associate Professor delivered a lecture on “High strength concrete and high performance mortar” at PMR Engineering College, Chennai 24th March 2014.*

### *Guest Lectures organized by the Department :*

- *Dr.A.S.Prasad, HOD Civil department, Vignana University has delivered a lecture on “ANALYSIS OF CHANNEL TRANSITION- SPECIFIC ENERGY CONCEPTS” on 8th march 2014.*

### *Registration for Higher Degree*

- *N.V Sairam Kumar Civil Engineering Department registered for Ph.D during may 2014 under Acharya Nagarjuna University, Nagarjuna Nagar, Guntur.*
- *J.Usha Kranti Civil Engineering Department registered for Ph.D during may 2014 under Acharya Nagarjuna University, Nagarjuna Nagar, Guntur.*
- *P.V.S. Maruthi Krishna Civil Engineering Department registered for Ph.D under S. V. University Tirupathi.*



### *Industrial Tours & Short Visits :*

- *IV B.Tech civil engineering went on study tour to learn about various Post tensioning practices to a newly built up commercial complex at lakshmipuram on 4th and 24 june 2014.*
- *II B.Tech civil engineering went on study tour to KCP Cement factory, Nagarjuna sagar dam during 8th to 9th February 2014.*

### *Any Other Information*

- *P.V.S Maruthi Krishna, Associate Professor, Civil Engineering Department enrolled as a Life Member IGS Delhi.*
- *J.Usha Kranti, Assistant Professor, Civil Engineering Department enrolled as a Life Member IGS Delhi.*
- *M.Rama Rao Professor Civil Engineering Department has been appointed as member of Board of studies in Architecture, ANU college of Architecture and Planning, Acharya Nagarjuna University on 25.04.2014.*

*(Dr. K.Srinivasu)*

*Professor & Head*

BEFORE IRRIGATION

EDITOR: Dr. K.Srinivasu

CO-EDITOR: Mrs. P.Samatha Chowdary

DEVELOPERS:

M.GOWTHAM(Y12CE864)

S.GAUTAM(Y12CE901)

COMMITTEE MEMBERS

A.S.S. BHEEMESH(Y13CE804)

T.SRINIVAS(Y13CE962)

M.GOWTHAM(Y12CE864)

S.GAUTAM(Y12CE901)