



Patrons	From the Chief Editor's Desk
 <p><i>Dr.N.B.R.Prasad</i> Chairman</p>  <p><i>Dr.V S R K Prasad</i> Principal</p>  <p><b>R. Govardhan Rao</b> Director Admin</p>	 <p>I am delighted at the release of this 1<sup>st</sup> Annual Issue of Civil Engineering News, Newsletter published by Department of Civil Engineering, ANITS.</p> <p>As a matter of practice, this Annual issue is published to update all the stakeholders of the B.Tech. (Civil Engineering)</p> <p>This issue contains Department news such as Department Profile, Faculty Publications, Workshops/ Seminars / Symposia organized, R&amp;D and Consultancy Projects in the Department, Faculty Achievements, Seminars/ Workshops/ Conferences attended by Faculty and Student Achievements for the year 2014-15.</p> <p>I congratulate the Editorial Board on this occasion.</p> <p>We are grateful to the Management, Principal and Dean, Academic Affairs for their continuous inspiration, encouragement, and support extended for the release of this “Civil Engineering News”</p> <p>~ Dr.B.N.D.NarasingaRao</p>

### Courses Offered

The Department of Civil Engineering, ANITS, offers the following AICTE approved courses:

- **B.Tech. (Civil Engineering)** - 4 Years duration

## CONTENTS

Article	Page
1) From the Editor's Desk	1
2) Courses Offered	1
3) Department Vision, Mission, PEOs, POs, PSOs and Profile	3
4) Profession Society Activities	6
5) Faculty Publications (2014-15)	6
6) Vinirmithi <sup>2K15</sup> – National Level Students' Technical Symposium	7
7) Guest Lectures (2014-15)	7
8) Student Achievements (2014-15)	7
9) Placement (2014-15)	8
10) Academic Toppers (2013-14)	8
11) Board of Studies & Editorial Board (2014-15)	9

## Department Profile

### ANITS

Anil Neerukonda Institute of Technology & Sciences (ANITS) was founded by Anil Neerukonda Educational Society (ANES), in the fond memory of Anil Neerukonda, son of its chairman Dr. B.R.Prasad, Neerukonda. The Institute's humble journey started in 2001 with four B.Tech. Programmes. Within 14 years of its establishment, the Institute registered phenomenal growth and is accredited by NAAC with A grade and by NBA twice.

### Vision

*To emerge as a world class technical institution.*

### Mission

*To impart holistic technical education by providing*

- *The state of the art infrastructure*
- *Exceptional technical and teaching expertise*
- *Best of human values*

### Department of Civil Engineering

The Department of Civil Engineering, established in 2011, offers the following programs

- B.Tech. Civil Engineering

Programme is approved by AICTE and affiliated to Andhra University.

### Vision

*To emerge as a leading Civil Engineering Department globally.*

### Mission

- I. *Empower our students with contemporary and industry relevant skills in Civil Engineering using outstanding technical and teaching expertise and best of infrastructure.*
- II. *Nurture holistic development of our students inculcating universal human values and life skills for serving the society as leaders of their profession.*

### Program Educational Objectives (PEOs)

*The Program is expected to enable the students, within 3 to 5 years of their graduation, to:*

1. *Successfully practice Civil Engineering in construction industry, public sector and entrepreneurship, ensuring a prosperous professional career.*
2. *Pursue higher education and Research for professional development contributing to the advancement of civil engineering through lifelong learning.*
3. *Demonstrate leadership abilities actively contributing to societal needs with a focus on sustainable development and human values.*

### Program Outcomes (POs)

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, 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 modelling 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.*

## Department Profile

### Program Specific Outcomes (PSOs)

1. Plan and develop safe, economical and sustainable buildings and other structures based on applicable professional standards, codes and ethics.
2. Analyze and solve stability problems in soils for design of foundations and plan and design highway, railway and other transportation systems based on applicable safety standards and codes
3. Plan and develop irrigation and water supply systems and analyze and solve problems due to pollution of air, water and land leading to a nourished, richer and healthy society.

### Infrastructure

All laboratories in the department are well established with latest and modern equipment. The Department has Computer Centre, A/c Seminar hall, Department library etc. The Department also has, STAAD Pro and 25 other civil engineering licensed software.

### Faculty

The Department is headed by Dr.B.N.D. NarasingaRao, having 22 years of Teaching, Research and Consultancy experience. The Department is supported by qualified and experienced faculty, including Prof. A.RamamohanaRao and Prof. V.Venkateswar Rao former Professor of Andhra University as well as skilled technicians and non-teaching staff. The Department has well equipped laboratories and spacious classrooms.



Triaxial Compression Test equipment



Compression Testing equipment



Los Angeles Abrasion testing machine



Total Station



Consolidation equipment



Laboratory Concrete Mixer



Relative density equipment



Infra-red Moisture meter

## **Department Profile**

### **Centre for Industrial Consultancy and Sponsored Research (ICSR)**

The Centre for Industrial Consultancy and Sponsored Research (ICSR) was established at ANITS to be an effective Interface with the Industry in fostering technology development, technical consultancy, collaborative R&D for mutual benefits. The key agenda of the IC&SR is to showcase and transfer the Institute's intellectual ware to industry and also inject industrial relevance in teaching and research at ANITS. The uniqueness lies in the wealth of expertise and modern facilities of the Department, manned by qualified teaching faculty with wide-ranging areas of specialization.

### **Consultancy Services**

#### **Geotechnical Engineering**

- Geotechnical Investigations and Reports
- In-situ and laboratory testing of soil and rock
- Soil & Rock Sample collection & Lab Testing
- Recommendation of suitable foundation and Solutions to Foundation problems

#### **Structural Engineering**

- Design of Structures
- Tests on cement, concrete, steel
- Concrete Mix design
- Tests on aggregates, bricks, stones
- Tests on other building materials

#### **Transportation Engineering**

- Highway materials testing
- Pavement design and maintenance
- Traffic and Transportation Planning

#### **Environmental Engineering**

- Water Quality analysis
- Sewage analysis

#### **Surveying**

- Surveying with total station;
- preparation of maps/ plans in AutoCAD

### Professional Society Activities

The Department hosts Institution of Engineers (India) ANITS Civil Engineering Students chapter and a number of events are organized by these chapter such as Workshops, Guest lectures, Engineers Day, KLRao memorial Lecture, Civil Engineering Model contest, industrial visit as well as Vinirmithi, the National level students technical symposium.



*Sri B. Jayarami Reddy, Chief Engineer, GVMC, delivering the IEI Students chapter Inaugural address on 05-07-2014.*

### Faculty Publications (2014-15)

1. Dr. B.N.D. NarasingaRao (2014) "Guidelines for Preparation of Geotechnical investigation Report" Indian Geotechnical Conference, December 2014, Volume 1, pp 2667-2676.
2. Dr. B.N.D. NarasingaRao (2014) "Study on Pollution of soils due to Disposal of pulp mill Effluent" in International Journal of Recent Research in Science & Technology, June 2014, Volume 6, ISSN: 2076-5061, pp: 135-140.
3. J. Vikranth (2014), "Application of Affine Theorem to an orthotropic-Rec-Slab continuous over two adjacent sides & simply supported on two other sides having an interior corner opening" in Journal of Structural Engineering, November, 2014, Volume 41, pp:1-5.
4. K. Lovaraju (2015) "Effective location of shear walls on performance of building frame subjected to earthquake load", in International Advanced Research Journal in science, Engineering and Technology, Jan, 15, Volume 2, Issue 1, pp 33-36.

### **Vinirmithi<sup>2K15</sup> – National Level Students’ Technical Symposium**

VINIRMITHI<sup>2K15</sup>, National Level Students Technical Symposium was organized by the Department of Civil Engineering during February 23-24, 2015. The symposium was inaugurated by Er..K.RamachandraRao, Chief Engineer, Visakhapatnam Port Trust. Events like Paper Presentation, Planning Contest, Technical Quiz, Memory Retention, JAM, Model contest and Story Framing; are conducted to encourage students to think different and update themselves in the future innovations. A total of 90 students from various colleges have participated in these events.



*Civil Engineering Model contest and Exhibition*

### **Guest Lectures (2014-15)**

1. A guest lecture was conducted on Topic“Solid Waste management” by Resource person Dr.Rajasekar on 10-12-2014.
2. A guest lecture was conducted on Topic “A Glimpse into certain Defence Works” by Resource person Sri. K.Venkateswara Rao, Joint Director (Designs), MES, Indian Navy on 22-08-2014.
3. A guest lecture was conducted on Topic“The Role of Geotechnics in Design and Stabilization of earth structures, few Cases studies” by Resource person Dr.A.Santha Ram on 07-08-2014.
4. A guest lecture was conducted on 112<sup>th</sup> Birth Anniversary Celebrations of Padmabhushan Dr.K.L.Rao by Resource persons Sri. U NarayanaRaju & Sri. M.T.Rajuon on 15-07-2014.

### **Student Achievements (2014-15)**

1. V.Satya Chakradhar (II/IV Civil) student has won 1<sup>st</sup> Prize in Bridge design & Fabrication in Civil Simplified event conducted by VIT University.
2. B.Koumudhi (III/IV Civil) student has won 1<sup>st</sup> Prize in Paper presentation in Vinirmithi 2K15, event conducted by ANITS.
3. S.Nookaratnam (III/IV Civil) student has won 1<sup>st</sup> Prize in Technical QUIZ in Vinirmithi 2K15, event conducted by ANITS.
4. G.Malathi (III/IV Civil) student has won 1<sup>st</sup> Prize in Paper presentation in Vinirmithi 2K15, event conducted by ANITS.
5. V.SatyaChakradhar (II/IV Civil) student has won 1<sup>st</sup> Prize in Architect-Planning Contest in Vinirmithi 2K15, event conducted by ANITS.
6. D.Lavanya (III/IV Civil) student has won 2<sup>nd</sup> Prize in Architect-Planning Contest in Vinirmithi 2K15, event conducted by ANITS.
7. D.Lavanya (III/IV Civil) student has won 1<sup>st</sup> Prize in Technical QUIZ in Vinirmithi 2K15, event conducted by ANITS

### Placements (2014-15)

List of the Selected Students

#### Infosys

S.No	Regd.No.	Name
1	311126508012	G Suneel Kumar
2	311126508014	G Niranjan
3	311126508024	K Kalyan
4	311126508026	Ch Lakshmi Srinija
5	311126508030	M P Venkatesh
6	311126508032	M Chandra Sekhar
7	311126508041	P V Sandeep
8	311126508050	KhajaMohiddenShaik

#### IBM

S.No	Regd.No.	Name
1	311126508026	Ch Lakshmi Srinija
2	311126508047	S Sneha

#### CA Deploy Engineering

S.No	Regd.No.	Name
1	311126508020	J BabuBalaji
2	311126508023	K SrivalliKiran
3	311126508019	HimaBindu K
4	311126508053	T DhilleswaraRao

#### Capgemini

S.No.	Regd.No.	Name
1	311126508042	P Harika

### Academic Toppers (2013-14)

#### List of Class Toppers

Year/Semester	I Semester	II Semester	
III Year	Ms. P.Harika (311126508042) 8.9 SGPA	Ms. C.Jyothi (311126508009) 8.43 SGPA	Mr.T.DhilleswaraRao (311126508053) 8.43 SGPA
II Year	Mr. A.S.P. Srivatsav (312126508012) 9.43 SGPA	Ms. D.Lavanya (312126508063) 9.31 SGPA	
I Year	Mr. P. Siva Kumar (313126508042) 9.57 SGPA		





### Board of Studies (Civil Engineering)

1. Prof. G. Appa Rao, Professor, Civil, I.I.T., Chennai, Member
2. Dr. B.V.S. Viswanadham, Professor, Civil, I.I.T., Bombay, Member
3. Dr. T.V.Praveen, Professor, Civil, Andhra University, Visakhapatnam, Member
4. Sri. K.Venkateswara Rao, Joint Director, MES, Indian Navy, Member
5. Prof. A. Ramamohan Rao, Professor, Civil, ANITS, Member
6. Mr. J. Vikranth, Associate Professor., Civil, ANITS, Member
7. Mr. M.K.S.S.Krishna Chaitanya, Assistant Prof., Civil, ANITS, Member
8. Mr. K.LovaRaju, Assistant Prof., Civil, ANITS, Member
9. Mr. T. Kiran Kumar, Assistant Prof., Civil, ANITS, Member
10. Ms. P.V.R. Sravya, Assistant Prof., Civil, ANITS, Member
11. Dr. B.N.D. NarasingaRao, Professor & Head, Chairman

### Editorial Board

#### Chief Editor:

Dr.B.N.D.NarasingaRao, Professor & Head, Civil Engineering

#### Members:

1. J.Vikranth, Associate Professor, Civil
2. P.V.R.Sravya, Assistant Professor, Civil
3. T.Srikanth, Assistant Prof., Civil
4. K.LovaRaju, Assistant Prof., Civil
5. Mr. T. Kiran Kumar, Assistant Prof., Civil
6. Mr.Ch.Vineel, Assistant Prof., Civil
7. Mr.T.ViswaTeja, Assistant Prof., Civil

#### Student Members:

1. Ms. P.Harika, 311126508042(IV/IV Civil)
2. Mr.T.DhilleswaraRao, , 311126508053(IV/IV Civil)
3. Ms. C.Jyothi, , 311126508009(IV/IV Civil)
4. B.Koumudhi, 312126508015 (III/IV Civil)
5. D.Lavanya, 312126508063 (III/IV Civil)
6. K.Gowthamkumar, 313126508033 (II/IV Civil)
7. J.Midhunkumar, 313126508022(II/IV Civil)
8. Md.Ameerjaved, 313126508036 (II/IV Civil)