






Patrons	From the Chief Editor's Desk
 <p>Dr.N.B.R.Prasad Chairman</p>  <p>Dr.V S R K Prasad Principal</p> <p>R. Govardhan Rao Director Admin</p>	 <p>I am delighted at the release of this 2nd 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, Professional Society Activities, Faculty Publications, Workshops / Seminars / Symposia organized, R&D and Consultancy Projects in the Department, Faculty Achievements, Seminars/ Workshops/ Conferences attended by Faculty and Student Achievements for the year 2015-16.</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.Narasinga Rao</p>

Courses Offered

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

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

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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. It is permanently affiliated to Andhra University and achieved Autonomous status by UGC in 2015.

Vision

ANITS envisions to emerge as a world-class technical institution whose products represent a good blend of technological excellence and the best of human values.

Mission

To train young men and women into competent and confident engineers with excellent communicational skills, to face the challenges of future technology changes, by imparting holistic technical education using the best of infrastructure, outstanding technical and teaching expertise and an exemplary work culture, besides moulding them into good citizens.

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

Our Vision is to be among the preeminent Civil Engineering Departments of the Country and the World for building future Civil Engineers characterized by technological excellence and human values.

Mission

Our Mission is Education. We achieve this mission through teaching, research, and consultancy in Civil Engineering with creativity, quality, sustainability, service and values as the foundational hall marks.

Program Educational Objectives (PEOs)

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

1. *Engage successfully in the practice of civil engineering profession within industry, government, or through private practice, post-graduate studies or alternate career paths.*

2. *Analyze, design and build safe, sustainable and economical civil engineering structures by applying their knowledge in one or more of the major areas of civil engineering, including environmental, geotechnical, structural, transportation, and water resources.*
3. *Apply the knowledge of mathematics, basic science, core and civil engineering to the formulation and solution of complex engineering problems as members of multidisciplinary teams.*
4. *Develop their communication skills and leadership skills and become competent, ethical and responsible professionals*
5. *Engage in life-long learning and service to their profession for betterment of society and environment*

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.

Department Profile

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.

Program Specific Outcomes (PSOs)

1. **Civil Engineering Knowledge:** Analyse & design solutions to complex problems by applying fundamentals of sciences and civil engineering in one or more of its major areas such as structural, geo-technical, water resources, transportation and environmental engineering.
2. **Conduct investigations of complex civil engineering problems:** Use modern techniques and tools to design and conduct experiments, prepare and interpret plans and reports with valid conclusions and recommendations.
3. **Civil engineer and society:** Develop civil engineering solutions based on societal, health, safety, legal, cultural and environmental considerations for sustainable development.

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. Narasinga Rao, having 23 years of Teaching, Research and Consultancy experience. The Department is supported by qualified and experienced faculty, including Prof. A.Ramamohana Rao 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



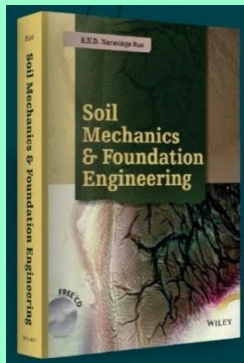
Relative density equipment



Infra-red Moisture meter

Department Profile

He is also the Principal Investigator for UGC Minor Research Project on Fly ash utilization. Dr. B.N.D. Narasinga Rao, Professor & Head, Civil authored Text Book on Soil Mechanics and Foundation Engineering, Wiley International Publishers. This book is prescribed by 10 universities and Autonomous colleges across AP, Tamilnadu, Odisha, and Rajasthan and UP. .



Text Book on Soil Mechanics, Wiley Publications, being released by Prof. M.R.Madhav Visiting Professor, IIT, Hyderabad

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 ASCE ANITS chapter and a number of events are organized by these chapters 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.



Inauguration of American Society of Civil Engineers (ASCE) ANITS Students Chapter by Dr. G L Siva Kumar Babu, IISc, Bangalore



Sri B. Jayarami Reddy, Chief Engineer, GVMC, delivering the IEI Students chapter Inaugural address



Sri D. Kasi Visvesvara Rao, Chief Engineer, CRDA, Amaravathi, addressing students



Sri Mohan Fernando, L&T Chennai



Civil Engineering Model contest and Exhibition

Faculty Publications (2015-16)

1. Dr. B.N.D. Narasinga Rao (2016) "Properties Of Parawada Fly Ash Concrete" in International Journal of Advances In Civil And Structural Engineering, Mantech Publications, 2016, Volume 1, Issue 3, pp 8-25.
2. Dr.B.N.D.Narasinga Rao (2016) "Utilization of Fly ash from Simhadri Thermal Plant in concrete" in National Conference on Civil Engineering for Sustainability, Sep, 16.
3. MKSSK Chaitanya, (2016) "Experimental Study On Mechanical & Durability Properties Of Conventional Concrete As A Partial Replacement Of Iron Ore With & Without Use Of Glass Fibres" in International Journal of Research in Science & Technology, Dec, 16, Volume 6, Issue 4, pp 138-143.
4. Sravya P.V.R, (2016) "A Study of Quality of water supplied by GVMC at Various Distribution Points in Visakhapatnam" in National Conference on Civil Engineering for sustainability, Sep, 16.
5. Sravya P.V.R, (2016) "An Experimental Study on Parametric variations during composting of Municipal Solid Waste", in International Journal of Innovative Research in Science, Engineering and Technology, Oct, 16, Volume 5, Issue 10, pp 18483-18491.

Vinirmithi'16 – 2nd National Level Students' Technical Symposium

VINIRMITHI'16, 2nd National Level Students Technical Symposium was organized by the Department of Civil Engineering in association with Institute of Engineers (India) ANITS students' chapter during February 12-13, 2016. The symposium was inaugurated by Er.G.Kanthu, Superintendent Engineer, R&B, Visakhapatnam. Events like Paper Presentation, Auto CAD, Bridge Contest, Technical Quiz, Memory Retention, JAM and Story Framing; are conducted to encourage students to think different and update themselves in the future innovations. A total of 110 students from various colleges have participated in these events.

Guest LectureS (2015-16)

1. A guest lecture on Joy of Geotechnical Engineering was given by Prof. M R Madhav, Professor, Emeritus, JNTU_ Hyderabad, on 06-06-2015.
2. A guest lecture on Construction of Godavari Barrage and other Irrigation structures was given by Sri. L V Narayana, Superintending Engineer (Retd.), Irrigation Department, Visakhapatnam on 11-07-2015.
3. A guest lecture on Planning and Construction of Amaravathi, the New Capital of Andhra Pradesh was given by Er. Sri.D.KasiVisweswara Rao, Chief Engineer, Capital Region Development Authority, AP on 17-07-2015
4. A guest lecture was given by Need for Studies in Geotechnical Engineering for Infrastructure Development by Prof. B V S Viswanadham, Professor, and Dept. Of Civil Engg. IIT-Bombay on 21-07-2015
5. A guest lecture on Career opportunities and Soft skills was given by Mr Mohamed Abdullah, Director of Conduira Education and Service Ltd. On 29-07-2015.
6. A guest lecture on Reinforced Concrete Design Concepts and Detailing was given by Prof. K Rambabu, Professor, Dept. of Civil Engg. AUCE(A) on 01-08-2015
7. A guest lecture on Planning of Capital Development, Amaravathi and Career Counselling was given by Sri. D K Visweswara Rao, Chief Engineer, CRDA, Amaravathi on 16-08-2015.
8. A guest lecture on Tips on Personal Interview Focusing on Campus Interviews was given by Mr Aditya Lanka, Director of Conduira Education and Service Ltd on 23-09-2015.
9. A guest lecture on Causes of failures in structural system and role of a Civil Engineer was given by
11. A guest lecture on How to prepare for IES, GATE & PSUs – Career option for engineers was given by Mr. Arun Singh (Academics & Corporate Relations) and Mr. Kapil Srivastava (Chief Manager-Hyderabad) of Made Easy on 05-10-2015.
12. A guest lecture on India On The Move - Philosophy was given by Acharya Ajit Kumar, advisor to chairman of BSCPL Group of companies on 16-11-2015.
13. A guest lecture on Tripod Skill Building was given by Ms.Swetha, Co-founder of Loonycom, Bangalore on 11-12-2015..
14. A guest lecture on Innovative Research and design for Product Development was given by Mr. Srinivas Chamarthy on 09-01-2016.
15. A guest lecture on Interactive & QA Sessions related to Infosys was given by Mr. Sashidhar Reddy on 20-01-2016.
16. A guest lecture on Career Opportunities in Department of Atomic Energy was given by Mr. G. Prasada Rao, Regional Director (P&S) of Department of Atomic Energy on 03-02-2016.
17. A guest lecture on Construction practices in R&B., VINIRMITHI' 16, Third National Level Students Technical Symposium was given by Er.G.Kanthu, Superintendent Engineer, R&B, Visakhapatnam, 12-02-2016.
18. A guest lecture on Career Opportunities in Civil Engineering, VINIRMITHI' 16, Third National Level Students Technical Symposium was given by Er.Mohan Fernando A,Head, HRMC,L&T constructions,chennai. 13-02-2016.

Prof. G Appa Rao, Professor, Dept. of Civil Engg. IIT-Madras on 28-09-2015

10. A guest lecture on An Overview of Non-destructive testing Methods was given by Prof. T RamaMohana Rao, Professor, Dept. of Civil Engg. VIT-Vellore on 03-10-2015.

19. A guest lecture on Planning for Successful Engineering was given by Mr. K. Suryanarayana, Senior Consultant of TCS , 09-03-2016.
20. A guest lecture on Shear Strength of Concrete was given by Dr. G Appa Rao, Professor, Dept. of Civil Engg. IIT-Madras , 29-02-2016.

Delivery details of Contents beyond Syllabus (2015-16)

Faculty Seminars

1. Dr. B.N.D. Narasinga Rao, Professor and Head, Civil, ANITS has delivered a lecture on the topic "Clay mineralogy and soil structure (Geotechnical Engineering-I)" on 01-07-2015
2. Sri. Ch.Vineel, Asst. Professor, Civil, ANITS has delivered a lecture on the topic ".Glass and Rubber (Building Materials and Building Construction) on 27-07-2015
3. Sri. M K S SK Chaitanya, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Beam-Column connection (Steel Structures-I)" on 29-07-2015.
4. Sri. Ch Vineel, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Seismic Waves and their propagation (Soil Dynamics and Machine Foundations)" on 28-08-2015.
5. Sri. T Kiran Kumar, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Traffic Signal Design- Webster's Method (Transportation Engineering - I)" on 02-09-2015.
6. Mr. J Vikranth, Assoc. Professor, Civil, ANITS has delivered a lecture on the topic "Design of masonry footings (Reinforced Concrete Structures-I) on 15-09-2015.
7. Ms. P V R Sravya, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "BOD determination for sewage water sample (Demo) (Environmental Engineering-I)" on 22-09-2015 & 24-09-2015.
8. Ms. P V R Sravya, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Rain Water Harvesting (Environmental Engineering -I)" on 13-10-2015.
9. Sri. T Kiran Kumar, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Total station and Introduction to Photogrametric Survey
11. Mr. M K S SK Chaitanya, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Introduction to Gantry Girder (Steel Structure-II" on 16-12-2015.)
12. Mr. Ch. Vineel, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Reclaimed Soils, Land fill gas, Leachate-Landfill liners., geo synthetic tube (Ground Improvement Techniques) on 05-02-2016.
13. Mr. T Kiran Kumar, Asst. Professor, Civil, ANITS has delivered a lecture on the topic "Breakwater Curves (Transportation Engineering-II) on 25-02-2016.
14. Dr. B.N.D. Narasinga Rao, Professor and Head, Civil, ANITS has delivered a lecture on the topic "Critical depth for pile foundations (Geotechnical Engineering-II)" on 19-03-2016.

(Surveying-II)" on 15-15-2015.

10. Sri. J.Vikranth, Assoc. Professor, Civil, ANITS has delivered a lecture on the topic "Design of masonry retaining wall (Reinforced Concrete Structures-II)" on 15-12-2015.

Seminars/ Workshops/ Conferences Attended by Faculty (2015-16)

1. Mr. M.K.S.S Krishna Chaitanya, Assistant Professor, Civil, has attended a Attended One Week Instructional Design and Delivery Systems by NITTTR, Chennai at ANITS from 16-06-2015 to 21-06-2015..
2. Mr. T.V.Viswa Teja, Assistant Professor, Civil, has attended a Attended One Week Instructional Design and Delivery Systems by NITTTR, Chennai at ANITS from 16-06-2015 to 21-06-2015.
3. Mrs. P.V.R.Sravya, Assistant Professor, Civil has attended Attended One Week Instructional Design and Delivery Systems by NITTTR, Chennai at ANITS from 16-06-2015 to 21-06-2015.
4. Mr. Ch. Vineel, Assistant Professor, Civil, has attended a Attended One Week Instructional Design and Delivery Systems by NITTTR, Chennai at ANITS from 16-06-2015 to 21-06-2015.
5. Mr. T.V.Viswa Teja, Assistant Professor, Civil, has attended a Attended One Week Instructional Design and Delivery Systems by NITTTR, Chennai at ANITS from 16-06-2015 to 21-06-2015.
6. Mr. T.V.Viswa Teja, Assistant Professor, Civil, has attended a Attended One Week Instructional Design and Delivery Systems by NITTTR, Chennai at ANITS from 16-06-2015 to 21-06-2015.

Placements (2015-16)

List of the Selected Students

Infosys

S.No.	Regd.No.	Name
1	312126508001	A Srinivasa Soma Sekhar
2	312126508015	B Koumudhi
3	312126508018	D Siva Hemanth Reddy
4	312126508021	G Malathi
5	312126508043	P Sai Gopal
6	312126508054	T Avinash

IBM

S.No.	Regd.No.	Name
1	312126508012	A Santhosh Praneeth Srivatsav
2	312126508016	ChSrinu
3	312126508028	K Polaraju
4	312126508045	P Taraka Laxman Gopal Chowdary
5	312126508046	P Naga V Manikanta

Mu sigma

S.No.	Regd.No.	Name
1	312126508014	B Bhavani

Capgemini

S.No.	Regd.No.	Name
1	312126508023	G Pujitha

Varun Motors

S.No.	Regd.No.	Name
1	312126508049	P Santosh Kumar

Steigen Pvt.Ltd.,

S.No.	Regd.No.	Name
1	312126508034	M MounikaDivya
2	312126508042	O Poli Raju

Academic Toppers (2012-16)

Gold Medal Winner 2012-16



K.Sri Valli Kiran (311126508023) daughter of Sri. ArjiSankara Rao and Smt.Arji Jyothi - Gold Medal Winner for the admitted batch 2011-2015. She has topped B.Tech Civil with 8.5 CGPA (under Andhra University R14 Scheme).

List of Class Toppers

Year/Semester	I Semester	II Semester
IV Year	Ms. Sk. Munnisha Begum (311126508051) 8.87 SGPA	Mr. M P Venkatesh (311126508030) 8.82 SGPA
III Year	Ms. M. Sailaja (312126508064) 9.41 SGPA	Ms. M. Sailaja (312126508064) 9.43 SGPA
II Year	Ms. G.Rajani (313126508018) 8.86 SGPA	Ms. P.Keerthi (313126508064) 9.31 SGPA
I Year	A Sai Revathi (314126508002) 8.41 SGPA	

Student Achievements (2015-16)

1. G Sudhakar Reddy has won 2nd Prize in Technical Quiz at S.R.K.R College of Engineering.
2. M Giri Prasad has won 1st Prize in Technical Quiz conducted at IIT, Bhubaneswar.
3. G Harikamaldutt,K.Gowtham Kumar has won 2nd Prize in Bridge It conducted at IIT, Bhubaneswar.
4. B Prathima Lilly ,G Rajani has won 2nd Prize in Paper presentation Contest conducted at S.R.K.R College of Engineering,Bhimavaram.
5. V Satya Chakradhar has won 1st Prize in Paper Presentation Contest (Structures-I)conducted at S.R.K.R.College of Engineering.
6. M Sai pujitha,Ch. Divya sirisha has won 1st Prize Paper Presentation Contest (Structures-II) conducted at S.R.K.R.College of Engineering.
7. V Satya Chakradhar has won 1st Prize in Smart Frame) conducted at IIT, Bhubaneswar.
8. V Satya Chakradhar has won 1st Prize in Paper Presentation Contest conducted at GVP College of Engg., Viisakhapatnam.
9. M Giri Prasad ,K Gowtham Kumar,U Chandrakala ,Sai Kiran Kunchi,K Venkatesh has won 1st Prize in Rotolare conducted at IIT,Kharagpur.
10. Mubeen Shukur Khan has won 2nd Prize in Lawn Tennis conducted at Inter-Collegiate Championship.
11. V Satya Chakradhar has won 1st Prize in Bridge Design & Fabrication conducted at VIT, Vellore



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. CNV Satyanarayana Reddy, Professor, Civil, Andhra University, Visakhapatnam, Member
4. Sri. D. Kasi Visweswara Rao, Chef Engineer (Retd.), CRDA, Vijayawada, 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. T. Kiran Kumar, Assistant Prof., Civil, ANITS, Member
9. Ms. P.V.R. Sravya, Assistant Prof., Civil, ANITS, Member
10. Mr. T.V. Viswateja, Assistant Prof., Civil, ANITS, Member
11. Dr. B.N.D. Narasinga Rao, Professor & Head, Chairman

Editorial Board

Chief Editor:

Dr. B.N.D. Narasinga Rao, Professor & Head, Civil Engineering

Members:

1. J. Vikranth, Associate Professor, Civil
2. P.V.R. Sravya, Assistant Professor, Civil
3. Ch. Vineel, Assistant Professor, T & P Coordinator, Civil

Student Members:

1. B. Koumudhi, 312126508015 (IV/IV Civil)
2. D. Lavanya, 312126508063 (IV/IV Civil)
3. K. Gowtham Kumar, 313126508033 (III/IV Civil)
4. J. Midhun Kumar, 313126508022 (III/IV Civil)
5. Md. Ameer Javed, 313126508036 (III/IV Civil)