

Annamacharya Institute of Technology and Sciences

(An Autonomous Institution)

New Boyanapalli, Rajampet-516126 Annamayya (Dt), Andhra Pradesh.
Approved by AICTE, New-Delhi, Affiliated to J.N.T.U.A, Ananthapuramu
Accredited by NBA (CSE, ECE,EEE)& NAAC with A Grade

Department of Civil Engineering



About Us:

Annamacharya Institute of Technology & Sciences, Rajampet is an AUTONOMOUS institution and is affiliated to JNTUA, Ananthapuramu. The institute was started in the year 1998 under the auspices of Annamacharya Educational Trust in picturesque surrounding on a spacious 30acre campus near Tallapaka, the birth place of Annamacharya, the renowned saint poet.

Our Institute Vision:

We impart futuristic technical education and instil high patterns of discipline through our dedicated staff who set global standards, making our students technologically superior and ethically strong, who in turn shall improve the quality of life of the human race.

Our Institute Mission:

Our mission is to educate students from the local and rural areas, and from other states so that they become enlightened individuals, improving the living standards of their families, industry and society. we provide individual attention, world-class quality of technical education and take care of character building.

Civil Engineering

Vision:

The Department of Civil engineering strives to help its graduates to become technically sound and ethically strong engineers and to be recognized as one of the best Civil Engineering programs in the country through its pursuit of excellence in teaching, research and service activities, besides imparting basic knowledge.

Mission:

The mission of AITS's Department of Civil Engineering is:

- To impart training to the students in order to make themselves suitable for the changing technologies in Civil Engineering field.

To provide an environment which inspires the students to enhance their analytical thinking and creativity to solve the problems of rural public and problems of the world related to Civil Engineering.

To nurture leadership and team work in the students so as to make them good leaders, entrepreneurs and responsible citizens.

Programme Educational Objectives:

The following Program Educational Objectives are consistent with the College and Department Missions. Graduates of our Civil Engineering program are expected within four years of graduation to have:

S.No. Programme Educational Objectives

- PEO1** To apply a broad, fundamental-based knowledge and up-to-date skills required in performing professional work in Civil Engineering and related disciplines.
- PEO2** To design the works pertaining to Civil Engineering, incorporating the use of design standards, realistic constraints and consideration of the economic, environmental, and social impact of the design.
- PEO3** To use modern computer software tools to solve Civil Engineering problems and explain and defend their solutions and communicate effectively using graphic, verbal and written techniques to all audiences.
- PEO4** To demonstrate their ability to deal effectively with ethical and professional issues, taking into account the broader societal implications of Civil Engineering.

Programme Outcomes:**S.No. Program Outcomes**

- PO1 Engineering knowledge:**Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 Problem analysis:**Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 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.
- PO4 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.
- PO5 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.
- PO6 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.
- PO7 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.

- PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 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.
- PO11 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.
- PO12 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

ABOUT THE DEPARTMENT



In the year 2012, the Civil Engineering department was formed. The department, which is one of the Institute's key engineering departments, has expanded enormously and is now acknowledged as one of the major engineering departments. Undergraduate civil engineering program contain not just civil engineering studies, but also value education, industrial training, placement training, and computer training, all of which are required to be a successful civil

engineer in today's world. The department provides field and technical visits for scholars to get practical experience. The department also provides a postgraduate degree in structural engineering, which includes both core and elective courses (inter and intra department). Students can obtain practical experience through summer internships.

Teaching, Student activities, Research, and Consultation works are all priorities for the department. Faculty members in the department are highly qualified and experienced. In addition to the institute's primary library, the department has smart classrooms, counselling room, and its own library. Structural Engineering, Geotechnical Engineering, Environmental Engineering, Water Resources Engineering, Transportation Engineering, and other fields are covered by the faculty. Faculty members contribute to academic advancement through research publications and giving presentations at International and National conferences. The labs are well-equipped with cutting-edge technology.

From the HOD's Desk

Welcome to the Department of Civil Engineering!

You've come to the correct spot if you're seeking for a well-balanced and innovative teaching-learning environment in Civil Engineering. The Civil Engineering Department aspires to be a leader in teaching, learning, and professional development. To complement our academic program, we are fortunate to brag state-of-the-art laboratories and devoted academic and technical staff. Our department and its knowledgeable faculty provide practice-based education, equipping our students for a rewarding and successful profession. Needless to mention, almost 30% of our students from the last two graduating classes were placed in My Homes as well as for higher education, demonstrating our academic superiority. Our graduates are especially well prepared for demanding employment, big project management, and being on the front lines.

So, why wait? Come and join us now and build the Nation!

....DR T Naresh Kumar
HOD CE

ABOUT NEWS LETTER

I am glad in publishing the Zero issue of the Departmental Newsletter "NIRMAN" for the academic year 2021 (Month: August - December). This newsletter exhibits the Conference, Workshops, Seminars, Events, Student Achievements and Faculty Achievements. It is great to find a considerable number of lectures and workshops helpful in sharing innovative ideas and knowledge. We do additional mentorship to our students through innovative technical sessions and seminars over the coming years. I thank all the faculty members and students for making this semester eventful in various aspects. I congratulate the team members in bringing this newsletter successfully.

Advisor Committee

Advisor and Editor-in- chief

Dr. T. Naresh Kumar, Associate Professor and Head of the department

Associate Editor

Ms. N. Kusuma, Assistant Professor

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❖ EVENTS CONDUCTED IN DEPARTMENT:

Guest lecture on information to technology:

A Guest lecture was conducted by department of civil engineering on 5th Aug 2023. Sri. Acharya AjithKumar Motivational Speaker and Life Teacher, VDM INDIA ON THE MOVE.He delivered a lecture on the development of India. He said that economy has grown to become one of the world's largest, driven by industries such as IT, Services manufacturing. The country has made advancements and education more over challenges like poverty, inequity and environmental. Almost 250 students and faculty members were highly benefitted by his lecture. Dr. S M V. Narayana Principal and Dr. T. Naresh Kumar,Head of the Department and all faculty numbers were present.



Independence Day:

In the month of August, the events conducted on Elocution, EssayWriting, the Test of English, Aptitude&Reasoning competition by the Department of civil engineering on 11th of this month. On this month of 15th. The prizes were given by the vice chairman of the institute Sri C. Rama Chandra ReddyGaru, Dr. SMV. NarayanaPrincipal and Dr. T. Naresh KumarHead of the Department.

Winners of the event with institute vice chairmanSri C. Rama Chandra Reddy Garu, Principal Dr. SMV.Narayana and Head of the Department Dr. T. Naresh Kumar and coordinators Mr. S.V.V.PrasadandMr. A. Anil KumarAsst professors.



One week FDP on Cloud Infrastructure:

Department of Civil Engineering organized a one-week FDP program conducted on 21st Aug 2023 through online mode Sri T. Naresh Kumar organized the program. The brain vision speakers are Mr. Ganesh Nag D Founder & CEO and Ms. Ysaswi resource person collaborated with Department. All the faculty numbers and also 160 numbers attended from other institution.

Guest lecture on Entrepreneurship:

A Guest lecture was conducted by the department of civil engineering on 30th Sep 2023. Sri C. Chandra Mouli Incubation manager, delivered a power point presentation on Entrepreneurship. As the part of the program, He said that Economy is grown in gradual process and He also explained various ways of income growth. The Participants at the event with institute Dr. S M V. Narayana Principal and Dr. T. Naresh Kumar Head of the Department, and coordinators are Mr. M. Hari Krishna Asst professor.



Inauguration program on BIS (Bureau of Indian standards)



Inauguration program was conducted by the department of civil engineering on 14th Oct 2023. Bureau of Indian standards was organized in Sri T. Naresh Kumar Garu Head of the Department. As the part of the program, He said that developing and maintaining standards for various construction techniques and services. In that services marks construction techniques with the ISI Marks. This helps consumers make informed choices and ensures the quality of the any

construction projects. The Participants at the event with institute Dr. S M V. Narayana Principal, all faculty number and students attended the program.

Invitation from Engineers days:

Invitation

The Institution of Engineers (India)
Kadapa Local Centre
APHB Colony, KADAPA – 516004.

Cordially invites you to participate in the
163rd Birthday of Engineer - Statesman
Bharat Ratna Sir Mokshagundam Visvesvaraya
&
56th ENGINEERS' DAY CELEBRATIONS
on 15th September, 2023 by 06.00 P.M.
in Y.V. Subba Reddy Sabhasthali, Visvesvaraya Bhavan,
The Institution of Engineers (India),
Kadapa Local Centre, APHB Colony, Kadapa.

Er. S. Ramana, B.Tech., MBA, I.E.R.
Superintending Engineer,
Operation Circle, APSDCCL, Kadapa.
Has kindly accepted to be the Chief Guest

Er. S. Hari Kishore Reddy, B.Tech.
Managing Partner,
Kishore Paper Conversions, Kadapa.

Er. G. Sessa Reddy, B.Tech.
Managing Director,
Mani Group of Companies & Chairman : IALA, Kadapa.

Has kindly accepted to be Guests of honour

Er. N. Bramhananda Reddy, IIE
Chairman, IEI, Kadapa Local Centre
Will preside over the function



Er. R. Narendra Rao, MIE
Honorary Secretary, IEI, KLC



Er. N. Bramhananda Reddy, FIE
Chairman, IEI, KLC

(Programme overleaf)

PROGRAMME

09.00 A.M.: *Garlanding the statue of*
Sir M.V. at Visvesvaraya Circle

06.00 P.M.: *Invocation at Visvesvaraya Bhavan, IEI,*
Kadapa Local Centre
Jyothi Prajvalana and garlanding the portrait of
Sir Mokshagundam Visvesvaraya... by the Chief Guest

Welcome address by :
Er. R. Narendra Rao, MIE,
Honorary Secretary, IEI, Kadapa Local Centre

Presidential address by :
Er. N. Bramhananda Reddy, FIE
Chairman, IEI, Kadapa Local Centre

Address by the Chief Guest
Address by the Guests of Honor
Address on theme of the day
'Engineering a Resilient Future: Building Stronger,
Smarter, Safer' by
Dr. T. Naresh Kumar, Ph. D, Associate Professor &
HoD, Dept. of Civil Engineering, Annamacharya
Institute of Technology & Sciences, Rajampeta.

Felicitation to the Chief Guest, Guests of Honor &
Theme Speaker.
Prize Distribution for Essay Writing & Elocution
Competition Winners and Participants.

Vote of thanks

Engineers' Day DINNER follows



Sri T. Naresh Kumar Head of the Department was Invited from engineering's Day on 15th Sep 2023 at visvesvarya bhavan, IEI, kadapa local center. In that ceremony he has gave small speech on engineering's day. He delivered that all construction building materials are stronger, smarter and safer. They Involves advancements in technology, Infrastructure and overall development to enhance resilience, efficiency and security in various aspects. All most 150 members presented in this program were highly benefitted by his lecture.

Invitation from Institute of engineering:

Sri T. Naresh Kumar Head of the Department was Invited from Institute of engineering's (INDIA) at Kadapa local center on 2th Oct 2023. He delivered on artificial intelligences impact on enhance project management. He said that development of computer systems that can be perform tasks that typically require human intelligences. These tasks include thing learning, reasoning, problem solving. The encompasses a wide range of techniques and technologies, including machine learning and computer vision. All most 250 members attended the program.



Online guest lecture on development and evaluation fly-ash and slag binders:



A online guest lecture is conducted by the department of civil engineering on nov 2023. Sri K. Chiranjeevi reddy, professor, civil department as the resource person delivered a power point presentation on the topic development and evaluation fly-ash and slag binders. He explains when the concrete strength increases to the adding of GGBS (Ground granulated blast ballast slag) in the silicate and alkali activators. And also increases the high capacity of energy releases in X-rays Diffraction. Dr. N.R. Gouthami and B. Raghu nath reddy is the co-ordinates of the program,

The Participants at the event with institute Dr. S M V. Narayana Principal, T. Naresh kumar Head of the department and all faculty number and students attended the program.

❖ FACULTY ACHIEVEMENTS:

Faculty name	Journal published	No
Dr. N.R. Gowthami	European chemical bulletin	1
Dr. D. Gouse Peera	European chemical bulletin	2
Dr. D.Sreenivasulu	European chemical bulletin	2
Ms. N. Kusuma	European chemical bulletin	2

JOURNALS PUBLISHED:

Mrs. N.R. Gowthami published one papers on European chemical bulletin

- ❖ “AN INVESTIGATION OF THE BIO-MEDICAL WASTE ASH ON CEMENT MORTAT BRICKS”.Vol 12 Issue10, pp 5289-5295

Dr. D. Gouse Peera published two papers on European chemical bulletin

- ❖ “AN INVESTIGATION OF THE BIO-MEDICAL WASTE ASH ON CEMENT MORTAT BRICKS”.Vol 12 Issue10, pp 5289-5295
- ❖ “STUDY OF THE EFFECT OF TRAFFIC VOLUME FOR INNER RING ROAD, ONGOLE, INDIA”.Vol 12 Issue3, pp2438 – 2445

Dr. D. Sreenivasulu published two papers on European chemical bulletin

- ❖ “AN INVESTIGATION OF THE BIO-MEDICAL WASTE ASH ON CEMENT MORTAT BRICKS”.Vol 12 Issue10, pp 5289-5295
- ❖ “STUDY OF THE EFFECT OF TRAFFIC VOLUME FOR INNER RING ROAD, ONGOLE, INDIA”.Vol 12 Issue3, pp2438 – 2445

Ms. N. Kusumapublished two papers on European chemical bulletin

- ❖ “AN INVESTIGATION OF THE BIO-MEDICAL WASTE ASH ON CEMENT MORTAT BRICKS”.Vol 12 Issue10, pp 5289-5295
- ❖ “STUDY OF THE EFFECT OF TRAFFIC VOLUME FOR INNER RING ROAD, ONGOLE, INDIA”.Vol 12 Issue3, pp2438 – 2445

❖ **FDP'S ATTENDED:**

No. faculty attended FDP's	No. of persons
One day	1
Five days	5
Seven days	1

- Mr. V. Haneef Assistant Professor in Dept. of CE has attended a 7 days online FDP on “integrating auto dusk fusion–360engineering subjects”, from Lendi engineering & technology, Vizianagaram, AndhraPradesh, 26/05/2023 to 1/06/2023.
- Mr. V. Haneef Assistant Professor in Dept. of CE has attended a 1day’s online webinar on “Research funding and technical”, from Vardaman college engineering, Hyderabad, 11/06/2023.
- Mr. V. Haneef Assistant Professor in Dept. of CE has attended a 5 days online FDP on “Defect free Construction Repair and Maintenance”, From National institute of technical teachers training and research Chandigarh. (NITTTR), 12/06/2023 to 16/06/2023.
- Mr. V. Haneef Assistant Professor in Dept. of CE has attended a 1 day’s online workshop on “Research Paper Writing Tools : Latex and Overleaf” From Computer Science and Engineering, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad during 19 August 2023.
- Ms. N. Kusuma Assistant Professor in Dept. of CE has attended a 5 days online FDP on “ANSYS-EM for electrical engineering application” From National institute of technical teachers training and research Chandigarh. (NITTTR),17/07/2023 to 21/07/2023.
- Ms. N. Kusuma Assistant Professor in Dept. of CE has attended a 5 days online FDP on “Resent trends in green energy initiatives and soft computing techniques” From Mahatma Gandhi Institute of Technology, Gandhi pet, Hyderabad,11/07/2023 to 15/07/2023.
- Dr. D. Sreenivasulu Assistant Professor in Dept. of CE has attended a 5 days online FDP on “Defect free Construction Repair and Maintenance” From National institute of technical teachers training and research Chandigarh. (NITTTR), 12/06/2023 to 16/06/2023 .
- Dr. D.Sreenivasulu Associate Professor in Dept. of CE has attended 120 min online webinar on “stability analysis of caisson foundations: theoretical and numerical analysis” From National institute of technical teachers training and research Chandigarh. (NITTTR), 9/08/2023

- S. VenkataVara prasad Assistant Professor in Dept. of CE has attended 120 min online webinar on “stability analysis of caisson foundations: theoretical and numerical analysis” From National institute of technical teachers training and research Chandigarh. (NITTTR), 9/08/2023 .
- M. Hari Krishna Assistant Professor in Dept. of CE has attended 5 days online FDP on “Cloud infrastructure” From Annamacharya institute of technology and sciences. 21/08/2023 to 25/08/2023.



Annamacharya Institute of Technology and Sciences

