

TECH ANANTH

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Volume 3 Issue VIII

JNTUA NEWS P6

Prof. H. Sudarsana Rao, Takes Charge as in-charge Vice Chancellor of JNTUA



JNTUA NEWS P6

Prof. S. Krishnaiah, Appointed as Registrar of JNTUA



JNTUA NEWS P4

University
Launches
Helpline Center
for
APEAPCET 2024

JNTUA NEWS P6

University Open's Admissions for Collaborative Integrated Program with JNTUA University and Blekinge Institute Technology, Sweden.

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CONTENTS

Page

1	Guest Lecture by Alumnus G. Lakshmu Naidu: A Deep Dive into Petroleum Product Storage Solutions.	3
2	University Commemorates 127 th Birth Anniversary of Freedom Fighter Alluri Sitarama Raju	4
3	University Launches Helpline Center for APEAPCET 2024.	4
4	JNTUA CEA (ANECOA) Meeting to Strengthen Alumni Engagement	5
5	Annual Alumni Reunion 2024	5
6	Prof. H. Sudarsana Rao, appointed as in-charge Vice Chancellor of JNTUA University	6
7	Prof. S. Krishnaiah, Assumes Role as Registrar of JNTUA.	6
8	University Open's Admissions for Collaborative Integrated Program with JNTUA University and Blekinge Institute Technology, Sweden.	6
9	Important National & International Days in July	7
10	News from University.	10
11	University Semester-End Examinations Results Announced - July 2024	11
12	Books / Book Chapters Published	11
13	Ph.D. Degrees Awarded by the University - July 2024	12



Guest Lecture by Alumnus G. Lakshmu Naidu: A Deep Dive into Petroleum Product Storage Solutions

On 19-07-2024, the Department of Mechanical Engineering at Jawaharlal Nehru Technological University, College of Engineering, Anantapur JNTUCEA had the privilege of hosting an insightful guest lecture by one of our distinguished alumni, Mr. G. Lakshmu Naidu. An industry veteran with over three decades of experience in the LPG sector, Mr. Naidu currently serves as the Chief Operating Officer (COO) at SALPG Cavern, Visakhapatnam. His lecture, titled “*A Solution for Storage of Petroleum Products,*” addressed key challenges and solutions related to the safe and efficient storage of petroleum products, particularly LPG, a critical energy source.

Mr. Naidu, an alumnus of JNTU CEA's Mechanical Engineering department (1988-92), has always remained closely connected with his alma mater. The complete planning and execution of these insightful sessions were made possible by **Prof. G. Prasanthi**, Department of Mechanical Engineering, JNTUACEA, and also an alumnus of JNTUA CEA.

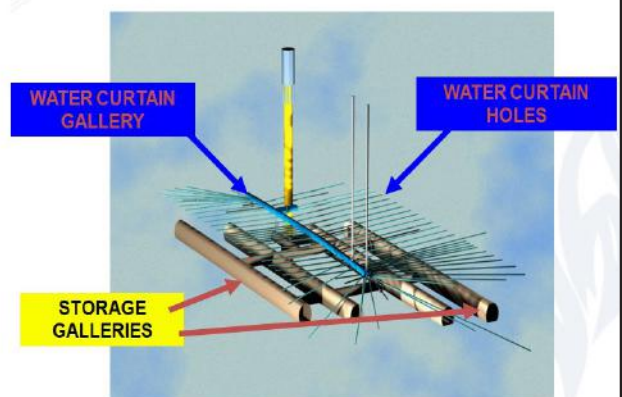
Key Highlights from the Guest Lecture by G. Lakshmu Naidu

- 1. Importance of Oil and Gas Sector in India's Economy:** The Oil and Gas sector is one of the most crucial sources of energy and a driving force for the Indian economy. India currently consumes approximately 234 Million Metric Tons (MMT) of petroleum products annually, with a staggering 87% of this requirement being met through imports. India ranks as the third-largest consumer of oil in the world, following the United States and China.
- 2. Limited Storage Capacity and Energy Security Concerns :** Despite being one of the largest oil consumers, India faces a significant challenge in terms of storage capacity. Currently, the nation's storage facilities can only meet less than 74 days of the country's petroleum product requirements. This limited storage capacity poses a risk to India's energy security and hinders its ability to sustain long-term economic growth, especially in the face of geopolitical uncertainties and global supply disruptions.
- 3. Need for Enhanced Storage Capacity:** Developing additional storage capacity for petroleum products is essential not just for ensuring energy security, but also for sustaining economic development. A robust and secure storage infrastructure will help mitigate

supply chain disruptions, safeguard against price volatility, and ensure the availability of energy for industries and households alike.

- 4. The Role of Cavern Technology in Petroleum Storage :** The lecture emphasized the critical role of cavern storage in addressing India's energy challenges. A cavern is essentially a manmade hollow space deep underground, where petroleum products can be stored safely and efficiently. The technology associated with these underground storage facilities is known as Cavern Technology. These caverns provide a secure and cost-effective way to store large quantities of petroleum products, helping to reduce the reliance on above-ground storage, which has limited capacity.
- 5. Global Perspective on Cavern Storage :** Over 600 caverns are currently in use worldwide, with many developed countries using them to enhance their energy security. However, India has only developed four cavern storage facilities so far—two in Visakhapatnam, one in Mangalore, and one in Padur, Karnataka. This limited number of facilities underscores the urgent need for expansion in cavern storage to meet India's growing energy needs.
- 6. Call to Action for More Cavern Facilities :** India must prioritize the development of more cavern storage facilities across the country to ensure long-term energy security and sustained economic growth. Investing in this advanced technology will allow India to store petroleum products in large quantities safely, thus strengthening its capacity to manage supply-demand challenges, geopolitical risks, and economic growth requirements.

Typical View of an Underground Cavern





University Commemorates 127th Birth Anniversary of Freedom Fighter Alluri Sitarama Raju

J.N.T.U. Anantapur University celebrated the birth anniversary of revolutionary Alluri Sitarama Raju today, **04.07.2024**, at the administration building. Prof. S.V. Satyanarayana, the in-charge registrar, inaugurated the program by paying tribute to Alluri Sitarama Raju's portrait. Along with senior officers and staff of the university laid flowers in honor of the revolutionary leader.

During the program, Prof. S.V. Satyanarayana highlighted Alluri Sitarama Raju's divine devotion, leadership qualities, and charitable nature since childhood. He emphasized Raju's unwavering support for the tribal communities and his fight against the exploitation faced by

the people of Manyam. Prof. S.V. Satyanarayana noted that Raju played a crucial role in educating the tribes about their rights, instilling courage in them, and preparing them to resist injustices. He remarked that Alluri Sitarama Raju's contributions to India's freedom struggle are unforgettable and serve as a great inspiration for the Telugu people. He urged everyone to embody Raju's qualities of bravery, punctuality, ethics, and commitment.

The program was attended by University Directors Prof. G.V. Subba Reddy, Prof. Vaishali, Prof. Padma Suvarna, College Vice Principal Prof. E. Aruna Kanti, Dr. Rama Shekhara Reddy, Dr. Kalyani Radha, V.C. P.A Mr. Srinivasulu, and the outsourcing staff.



University Launches Helpline Center for APEAPCET 2024

On 04.07.2024, JNTUA Anantapur University announced the opening of the AP EAPCET-2024 Helpline Centre, which began operations on July 1st, as stated by the Director of Admissions, Prof. R. Kiranmai.

During this occasion, In-charge Registrar Prof. S.V. Satyanarayana visited the helpline centre to assess the facilities and the overall functioning of the helpline process.

He inquired about the operations and requested Prof. Kiranmai to ensure that there are no deficiencies at the helpline centre.

The program was attended by Prof. G.V. Subba Reddy, P.R.O. Dr. M. Rama Shekhara Reddy, Shri Venu Gopal, and other staff members.





JNTUA CEA (ANECOA) Meeting to Strengthen Alumni Engagement



The JNTUA Anantapur Engineering College Alumni Management Committee Meeting (AN-ECAA ATP) was held on **10.07.2024**, in the College Conference Hall, presided over by President Prof. S.V. Satyanarayana, Principal of JNTUA CEA and In-charge Registrar.

The meeting included Vice President Prof. V. Shankar, Joint Secretary V. Raghunatha Reddy, Treasurer Prof. C. Shobha Bindu, Ex Officio Prof. P. Sujatha, and other members, including Mrs. B. Ajitha, Prof. E. Aruna Kanti (Secretary of the Alumni Association), Prof. R. Kiranmai, Prof. K. Madhavi, Dr. M. Rama Shekhara Reddy, Dr. M. Rama Krishna Reddy, H. Satyanarayana Rao, Prof. V. Sumalatha, and Dr. Kalyani Radha.

The Annual Alumni Meet is scheduled to take place on

Saturday, 20.07.2024, at the College Auditorium. Prof. S.V. Satyanarayana announced that a guest lecture will be arranged for current students and faculty members by esteemed former students on 19.07.2024.

Alumni are warmly invited to attend the meeting on 20.07.2024.



Annual Alumni Reunion 2024



On the occasion of the Alumni Meet Annual Day, the Anantapuram Engineering College Alumni Meet was held today, 20.07.2024, at the College Auditorium.

The Chief Guest for the event was the In-charge Vice-Chancellor, Prof. H. Sudarsana Rao, who inaugurated the program. As a former student, H. Sudarsana Rao expressed his gratitude for the opportunity to participate in the alumni meeting. He referred to the alumni as the "silk branches" of the college, emphasizing that many graduates have attained significant positions and are deeply committed to their alma mater. He encouraged alumni to stay connected with the college, stating that the Alumni Association is a vital strength of the institution.

In-charge Registrar and Principal Prof. S.V. Satyanarayana highlighted the impact of the college on the lives of its graduates, noting that many have achieved remarkable success and maintain a familial bond with the institution. He acknowledged the college's reputation, attributing it to the success of its alumni who are working globally. Prof. S.V. Satyanarayana mentioned that the advice and suggestions of alumni members would be invaluable for the university's development, urging former students to guide current students. Approximately 100 alumni attended the program.

The event was attended by College Vice Principal Prof. E. Aruna Kanti, Alumni Director Prof. P. Sujata, and other

faculty members, including Prof. K. Hema Chandra Reddy, Prof. C. Shobha Bindu, Prof. Durga Prasad, Prof. Bala Narasiah, Prof. Prashanthi, Prof. Visali Gorpade, Prof. Bhavani, Prof. K.F. Bharti, Prof. A.P. Siva Kumar, Dr. Vishnu Vardhan, Dr. M. Rama Shekhara Reddy, Dr. Ajitha, Dr. Kalyani Radha, Dr. Om Prakash, Dr. Sharada, Dr. Aruna Mastani, Dr. Vijaya Lakshmi, former professor V. Shankar, Sri Joji Reddy, Sri Siva Linga Rao, and notable alumni including Sri Plengeri Shankara Narayana (1970 Batch), Sri K. Srinivasan (1968 Batch), Shri G. Mohan (1966 Batch), Shri P. Bhaskar Babu (1967 Batch), Shri G. Radha Krishna (1986 Batch), Shri B. Raja Babu (1997 Batch), Shri G. Poorna Chandra Rao (1980 Batch), YVV Prasad (1980 Batch), Sri Lakshmana Naidu (1992 Batch), Sri Raghuttama Rao (1967 Batch), along with other educational and non-educational staff.



Prof. H. Sudarsana Rao, appointed as in-charge Vice Chancellor of JNTUA University



On July 18, 2024, Professor H. Sudarsana Rao, a senior professor in the Civil Engineering Department, took charge as the In-charge Vice Chancellor of Jawaharlal Nehru Technological University Ananta-

pur (JNTUA). With a Distinguished Academic career, Professor Rao has served the university in various prominent roles, including as Rector and as Director of the Rajiv Gandhi University for Knowledge for Technologies (RGUKT), Idupulapaya, Indian Institute of Information Technology (IIIT).

Prof. H. Sudarsana Rao brings with him a wealth of experience and a deep commitment to fostering academic excellence and institutional growth. His leadership in the Civil Engineering Department and his service in key administrative positions have earned him a reputation as a dedicated educator and visionary administrator. Throughout his tenure, he has been instrumental in implementing initiatives aimed at enhancing the quality of education and research at JNTUA.

As In-charge Vice Chancellor, Professor Rao is expected to bring his extensive expertise to bear in furthering the university's mission of promoting academic innovation and advancing knowledge across disciplines. His appointment has been warmly welcomed by the academic community, who look forward to his continued contributions in this new capacity.

Prof. S. Krishnaiah, Assumes Role as Registrar of JNTUA

At J.N.T.U. Anantapur University, 20.07.2024, In-charge Vice-Chancellor Prof. H. Sudarshana Rao appointed Prof. S. Krishnaiah as the new Registrar for JNTUA Anantapur.

During the event, Prof.S. Krishnaiah expressed his gratitude for the trust placed in him by the Vice-Chancellor and assured that he would carry out his responsibilities diligently. He committed to working towards the development of the university under Prof. Sudarsana Rao's leadership and thanked him for the opportunity.

On this occasion, the directors of the university, along with teaching, non-teaching, and outsourcing staff, expressed their appreciation by presenting flower bouquets to the new Registrar JNTUA Anantapur.



University Open's Admissions for Collaborative Integrated Program with JNTUA University and Blekinge Institute Technology, Sweden



JNTU Anantapur University and Blekinge University (Sweden) are jointly offering Integrated Graded Courses. Admissions for these courses were conducted on 29.07.2024, under the auspices of In-charge Vice-Chancellor Prof. H. Sudarsana Rao. During the admissions ceremony, Registrar Prof. S. Krishnaiah presented admission papers to 13 students.

Prof. S. Krishnaiah explained that as part of the integrated graded courses, students will complete three years of the B.Tech program at JNTUA Anantapur and spend one year studying at Blekinge Institute of Technology (BTH) in Sweden. Upon completion, students will receive a B.Tech degree from JNTUA Anantapur and a B.S. degree from Blekinge University. He also noted that students have the opportunity to pursue an M.S. (Master's) pro-

gram at BTH, Sweden, which offers a great opportunity for students to secure jobs abroad.

The event was attended by Registrar Prof. S. Krishnaiah, Director of FA & AM Prof. P. Sujatha, Admission Director Prof. R. Kiranmai, Sri Prabhakar Reddy, and the participating students.



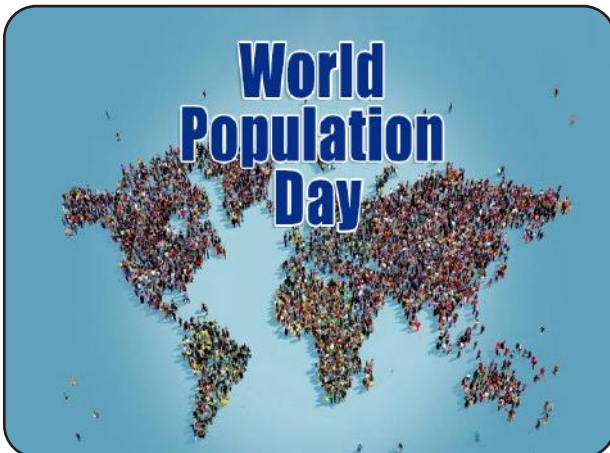
Important National & International Days in July



7 July - World Chocolate Day : The day is observed on July 7 as on this date in 1550, chocolate was first brought to Europe. World Chocolate Day is celebrated in different countries on different days.



7 July- Global Forgiveness Day : Global Forgiveness Day on July 7, also known as International Forgiveness Day, is a relatively new observance dedicated to promoting forgiveness and reconciliation on a global scale. The exact origin and history of Global Forgiveness Day are not well-documented, but forgiveness as a concept has deep roots in various cultures and religions.



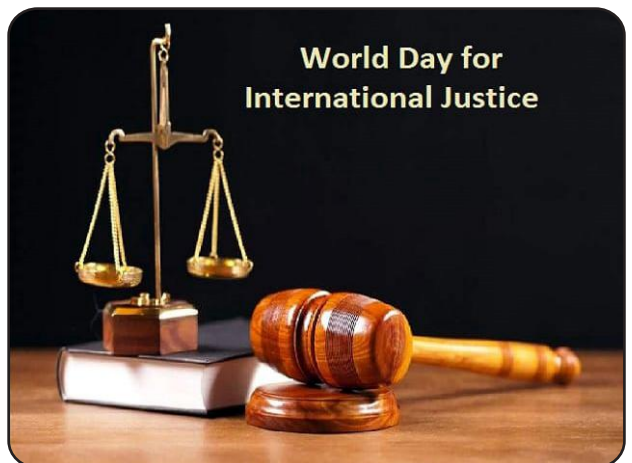
11 July - World Population Day : World Population Day is observed annually on 11 July to focus attention on the urgency and importance of population issues.



12 July - Paper Bag Day : Paper Bag Day is observed on 12 July annually to recognise the importance of the invention of the Paper Bag that we mostly take for granted. In 1852, Francis Wolle, a schoolteacher, invented the first machine to mass-produce paper bags.



15 July - World Youth Skills Day : World Youth Skills Day is celebrated on 15 July every year to raise awareness about the importance of technical, vocational education & training and the development of other skills relevant to both local and global economies.



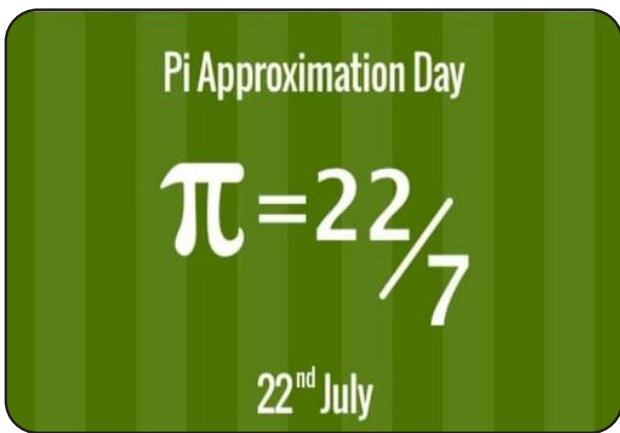
17 July - World Day for International Justice : World Day for International Justice is observed annually on 17 July every year. It is also known as the Day of International Criminal Justice or International Justice Day. This day recognises the emerging system of international criminal justice..



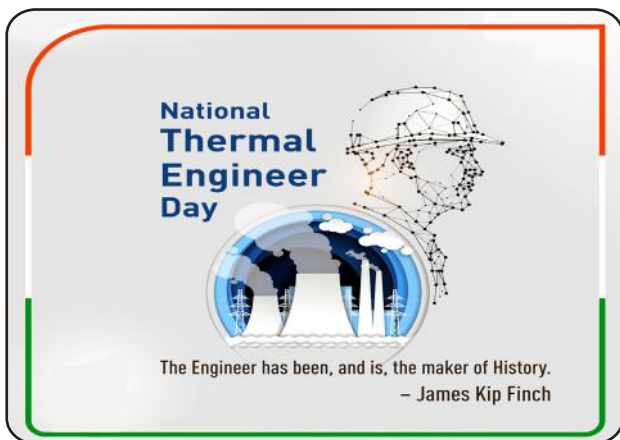
17 July - World Emoji Day : World Emoji Day is observed on 17 July every year since 2014. The day is celebrated to represent an idea or an emotion through electronic means.



20 July - International Chess Day: It is observed on 20 July to honour the foundation of the Federation Internationale des Echecs (FIDES).



22 July - Pi Approximation Day : Pi Approximation Day is observed on 22 July every year because of the value of Pi which is $\frac{22}{7}$. Whereas Pi Day is celebrated on 14 March which is similar to the approximate value of 3.14 and also coincides with Albert Einstein's birthday.



24 July - National Thermal Engineer Day : National Thermal Engineer Day is observed every year on 24 July to show the importance of advancing the thermal engineering industry and is provide the electronics industry with innovative, high-quality, and cost-effective thermal management and packaging solutions.



22 July- National Flag Day : The Indian National Flag remains a symbol of India's rich cultural heritage, its hard-fought struggle for freedom, and the aspirations of its people for a united and prosperous nation. National Flag Day is observed on July 22 annually to celebrate the adoption of the tricolour designed by Pingali Vekayya as the flag of India.



25 July (Fourth Thursday in July) - National Refreshment Day : National Refreshment Day is observed annually on the fourth Thursday in July which falls on 25 July 2024. This day is basically to celebrate fun and refreshment during the hottest time of the year which is in the summer.



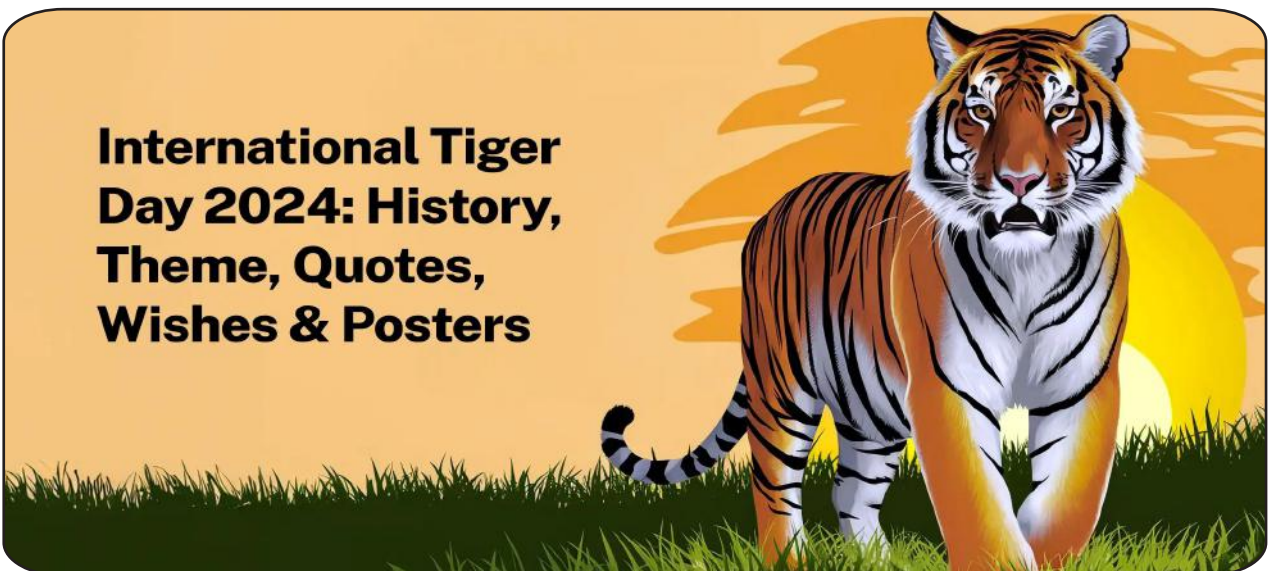
26 July - Kargil Vijay Diwas : Kargil Vijay Diwas is observed on 26 July and is named after the success of Operation Vijay. The Kargil war was ended on 26 July which continued approx 60 days. This day is celebrated to honour the Kargil War Heroes.



28 July – National Parent’s Day (Fourth Sunday in July) : National Parents Day is observed on the fourth Sunday in July and in 2024 it falls on 28 July. This day is celebrated to honour all the parents who play a vital role in the lives of children. Their unconditional love and sacrifice for their children can’t be measured.



28 July - World Nature Conservation Day : World Nature Conservation Day is observed on 28 July every year to recognise that a healthy environment is a foundation for a stable and productive society and for future generations. We must protect, conserve and sustainably manage our natural resources.



29 July - International Tiger Day : Every year on July 29, we mark International Tiger Day to raise awareness of the necessity of tigers’ conservation and to support the preservation of their natural environment. This day is also recognised as Global Tiger Day.

University News



JNTUA ADMINISTRATIVE BUILDING

1. **18.07.2024:** Prof. H. Sudarsana Rao, Department of Civil Engineering, JNTUA College of Engineering, Ananthapuramu assumed charge as Vice Chancellor in-charge of JNTUA.
2. **20.07.2024:** Prof. S. Krishnaiah, Department of Civil Engineering, JNTUA College of Engineering, Ananthapuramu appointed as Registrar of JNTUA.
3. **24.07.2024:** Hon'ble Vice Chancellor attended as a Chief Guest to an Induction programme, conduct-

ed by Anantha Lakshmi institute of Technology and Science, Ananthapuramu. The Chairman, the Principal, Staff and students of the college attended the program.

4. **27.07.2024:** 50th Building Committee meeting was held under the Chairmanship of Hon'ble Vice Chancellor i/c, and The Registrar, Executive Engineer (R&B), Vice Principal, JNTUA CEA on behalf of the Principal; Director of ICS, University Engineer and Finance Officer attended the meeting.
5. **31.07.2024:** Hon'ble Vice Chancellor attended as a Chief Guest to the first graduation day of SV College of Engineering (Autonomous), Tirupati premises on 31.07.2024. Dr. B Chandrasekar, Chief Coordinating Officer (AICTE), Ministry of Education, New Delhi; the Chairman; the Principal; Staff and students of respective College attended the program.



JNTUA CEA

1. **19.07.2024:** JNTUA College of Engineering, Anantapur organized a seminar on *"Scope and Applications of Space Research: ISRO"*, by Alma mater, Rtd. Scientist, Dr. Raghuthama Rao.
2. **20.07.2024:** JNTUA College of Engineering, Anantapur organized a seminar on *"Opportunities for Engineers"* by Prof. K. Srinivasan, University of Western Australia.

NCC/NSS/Programmes

Webinars, Awareness sessions, seminars, Health & Hygiene Camp, Blood Donation Drives, Plantation Program conducted by JNTUA Constituent Colleges/Units in July 2024.

1. National Doctor's Day was organized on 01.07.2024.
2. International Plastic Bag Free Day was organized on 03.07.2024.
3. Health Tips for Healthy Life was organized on 04.07.2024.
4. Blood Donation Camp was conducted on 05.07.2024.
5. "Ek Ped Maa Ke Naam" campaign was conducted on 06.07.2024.
6. World Population Day was conducted on 11.07.2024.
7. World Youth Skills Day was conducted on 15.07.2024.
8. Kargil Vijay Diwas Day was conducted on 26.07.2024.
9. World Hepatitis Day was conducted on 26.07.2024.

Journal/Conference Publications

- The faculty members of the University published 08 research papers and affiliated colleges have published 97 research papers in peer reviewed journals, seminars & conferences during this month.

Projects Initiated/ completed

- Department of Civil Engineering, JNTUA College of Engineering Ananthapuramu generated an amount of Rs. 2,47,878/- through Industrial Consultancy Services..

University Semester-End Examinations Results Announced – July 2024



Results of the semester end examinations conducted by the university declared in the month of **July 2024** are as below.

27.07.2024.

- B.Pharmacy IV Year II Semester (R19) Advanced Supplementary Examinations, June 2024
09.07.2024.
- Pharm.D VI Year (R17) Regular & Supplementary Examinations, June 2024.
- B.Tech IV Year I Semester (R20) Advanced Supplementary for Moocs (Conventional Mode) Examinations, June 2024.
- B.Tech III Year II Semester (R20) Advanced Supplemen-

tary for Moocs (Conventional Mode) Examinations, June 2024.

- M.Sc III Semester (R21) Supplementary Examinations, June 2024.
24.07.2024.
- M.Tech IV Semester (R21) Regular & Supplementary Examinations, May / June 2024.
27.07.2024.
- M.Pharmacy IV Semester (R21) Regular & Supplementary Examinations, May / June 2024.
- M.Pharmacy IV Semester (R17) Supplementary Examinations, May / June 2024.

Books and Book Chapters

1. **S Jyothirmayee, N Madhava, B Dileep Kumar Reddy**, faculty of JNTUA CE Pulivendula published a book titled *“Stabilization of Expansive Soil with Crumbled Rubber and Lime Powder”* by Integrated Publications, Link: <https://www.integratedpublications.in/books/1720874142-current-advances-in-civil-engineering-research-volume-3>.
2. **B Dileep Kumar Reddy and S Jyothirmayee** faculty of JNTUA CE Pulivendula published a book titled *“Comparative Study on Time-Cost Trade off by Project Crashing and Linear Programming Method”* by Integrated Publications, Link: <https://www.integratedpublications.in/books/1720874142-current-advances-in-civil-engineering-research-volume-3>.
3. **Vempalle Rafi, G. V. Nagesh Kumar, P. Meenakshi**, faculty of JNTUA CE Pulivendula published a book titled *“Severity of Delamination on Single-Phase Gas-Insulated Bus Duct”* by Springer publications, link: https://link.springer.com/chapter/10.1007/978-981-97-2788-9_6.
4. **Y MadhuSudhana Reddy & Ernest Ravindran R S** faculty of RGM College of Engineering & Technology, Nandyala published a book titled *“Diagnosis of Diabetic Retinopathy Through Retinal Image Segmentation”* LAMBERT Academic Publications, ISBN:978-620-7-47555-1.
5. **Dr. V. Jyothsna** faculty of Sree Vidyanikethan Engineering College authored a book titled *“Robotics and IoT”*. Publisher: Scientific International Publishing House, ISBN: 978-93-6132-613-4.
6. **Dr. Suresh Babu Daram** faculty of Sree Vidyanikethan Engineering College authored a Textbook titled *“Electric Circuit Design”* Scientific International Publishing House, 2024, ISBN: 978-93-6132-433-8.
7. **Dr. K. Hari Krishna & Dr. K. Venkateswara Rao**, faculty of Sree Vidyanikethan Engineering College published a book titled *“Hybrid, information systems for modeling traffic management and control”* ISBN: 9783111331133.

Ph.D. Degrees Awarded by the University - July 2024

1. **Mr. Nulu Reddeppa** has Demonstrated Excellence in the Field of *“Development of Genetic Algorithms for the Optimal Design of machine Foundations”* and is awarded the Degree of Doctor of Philosophy (Ph.D), In the Faculty of Civil Engineering on **07 December 2024**.
2. **Mr. P. Venkataramana** has Demonstrated Excellence in the Field of *“Design and Development of Low Cost and Compact Multi Function RADAR”* and is awarded the Degree of Doctor of Philosophy (Ph.D), In the Faculty of Electronics and Communication Engineering on **06 January 2024**.
3. **Mr. A. Charles Stud** has Demonstrated Excellence in the Field of *“Super Resolution of MRI Images using Compressive Sensing and Fuzzy Logic”* and is awarded the Degree of Doctor of Philosophy (Ph.D), In the Faculty of Electronics and Communication Engineering on **21 June 2024**.
4. **Mr. Lanke Lakshmi Prasanna Kumar** has Demonstrated Excellence in the Field of *“Investigation on Interference Cancellation Schemes on 4G & 5G Wireless Communication Systems”* and is awarded the Degree of Doctor of Philosophy (Ph.D), In the Faculty of Electronics and Communication Engineering on **20 July 2024**.
5. **Mr. Chella Hari Prasad** has Demonstrated Excellence in the Field of *“Cost Analysis by Optimal Distributed generation Placement in Distribution Systems”* and is awarded the Degree of Doctor of Philosophy (Ph.D), In the Faculty of Electrical Electronics and Engineering on **07 January 2024**.
6. **Mrs. V. Sowmya Sree** has Demonstrated Excellence in the Field of *“Analysis of various Control Strategies for Power Quality Enhancement in a Micro-Grid”* and is awarded the Degree of Doctor of Philosophy (Ph.D), In the Faculty of Electrical Electronics and Engineering on **07 March 2024**.
7. **Mr. H. M. Sudheer Kumar** has Demonstrated Excellence in the Field of *“Development and Validation of Novel RP-HPLC methods for the estimation of single and Combinational Drugs in Bulk and its Dosage Forms”* and is awarded the Degree of Master of Philosophy (M.Phil), In the Faculty of Pharmacy on **28 June 2024**.

Call for Contributions to Tech Ananth Magazine

The JNTUA fraternity, including all students, faculty, and alumni, is invited to contribute to the monthly illustrated online e-magazine, Tech Ananth. We encourage you to share your insights, achievements, and stories to enrich our publication.

Submission Guidelines:

Content Types: Reports of significant events, details of awards, prestigious assignments, funded projects, success or inspirational stories from alumni, and articles on Science and Technology that stimulate technical and scientific thinking.

- **Student Activities:** Include images of students receiving awards or participating in events. Highlights of academic, sports, and extracurricular achievements.
- **Creative Sessions:** Poems, Small Stories, Art Galleries, Photographs, etc.
- **College Events :** Coverage of Workshops, Guest Lectures, Fests & Cultural Activieies Clubs, etc.

Submission Details: Please include your full name, designation, college, department, mobile number, and email ID for correspondence.

Email for Submissions: Send your contributions to the editorial team at emagazine@jntua.ac.in.

We look forward to receiving your valuable contributions and showcasing the vibrant achievements and advancements within our community.

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