

TECH ANANTH

Volume 2 Issue 1

... infinite technology

P4

Importance of Blended Learning in the Era of Digitalisation

P22

ISTE Best Engineering Teacher Award 2021 for Dr. K. Madhavi, HOD CSE, JNTUA CEA.

P14

Re-Union of 1972-77 Batch. - A Pictorial Report

P28 LENS TECH

Anantapur Engineering College Alumni Association Office Inaugurated at JNTUA CEA



§ EDITORIAL BOARD §

Editor - In - Chief

Prof. G. Ranga Janardhana
Vice Chancellor, JNTUA

Senior Editors

Prof.M.Vijaya Kumar
Rector, JNTUA

Prof.C.Sashidhar
Registrar, JNTUA

Associate Editors

Prof E. Keshava Reddy
Director of Evaluation, JNTUA

Prof. P.R. Bhanu Murthy
Director, Faculty Development Cell

Prof.B. Durga Prasad
Director, OTPRI

Prof. P.Sujatha
Principal, JNTUA CEA

Prof. G. Sankar Sekhara Raju
Principal, JNTUA CEP

Prof. S.V. Satyanarayana
Principal, JNTUA CEK

Editor

Prof. V. Sumalatha
Director, Academic & Planning, JNTUA

Assistant Editor

M Kalyan Kumar
Co-ordinator (DAP)

CONTENTS

S.No		Page
1	Importance of Blended Learning in the Era of Digitalisation. <i>- An innovative stride towards modern education.</i>	4
2	Batteries, A Boon To Mankind. <i>- A Transcript of AIR Technical Talk by Prof. R. Padma Suvarna</i>	7
3	Strategies of Successful People.	11
4	JNTUA CEA Re-Union Of 1972-77 Batch. <i>- Alumni News a Pictorial Report.</i>	14
5	Students Interaction Programme at JNTUA CEA	15
6	News from Constituent Units.	17
7	News from University.	18
8	University Examination Branch News.	20
9	Projects Initiated, Completed & Consultancy works undertaken.	20
10	Books /Book Chapters Published.	21
11	Patents Published /Awarded / Filed. Journal/Conference Publications	21
12	ISTE Best Engineering Teacher Award 2021 for Dr. K. Madhavi, HOD, Department of Computer Science & Engineering, JNTUA CEA. <i>- Awards & Recognitions.</i>	22
13	Important National and International Days in December.	23
14	"Fear of Failure" <i>- Message from the Chairman APSCHE.</i>	26
15	Lens Tech.	27
16	Contribution of Articles to Tech Ananth - Certain information	32

IMPORTANCE OF BLENDED LEARNING IN THE ERA OF DIGITALISATION

-An innovative stride towards modern education

- Dr.E Keshava Reddy

Blended learning is an approach to education that combines online educational materials and opportunities for interaction online with physical place-based classroom methods according to the definition. Simply put, blended learning is a combination of classroom teaching and online education, it has the best of both.



Blended learning makes the classroom more active and informative. Different students have different paces and ways of learning and blended learning helps all kinds of students to understand better. There are some concepts that, when taught live by a teacher are easier to understand, and there are some concepts that are similar to lectures. Lectures are hard to focus on and listen to. It is different when the same information is given to the students through a game-like course or participating in a group discussion or a quiz. The student's participation is more, the classroom is more interactive, and learning becomes interesting. Gaining new knowledge can be fun and blended learning provides us with tools to make it that way.



There are varying opinions about the style of teaching. Technology in hybrid learning is used not only to supplement teaching but also to improve the learning process for the students. It fills the gap between traditional schooling and digital learning. A great example of blended learning is a scenario where the students listen to a lecture in a classroom and then take an online quiz to test their understanding.



There are different blended learning models like the flipped classroom model, face-to-face driver model, rotational model, flex model and enriched virtual model. All of these differ in the level of face-to-face and online interaction and each model finds its place to fit into different phases of education.

Benefits of blended learning

Has the pros of both in-person and virtual learning: Blended learning is more flexible and adaptable than a single-method approach. It helps all kinds of students and no student is left behind. It helps to break the boring and monotonous teaching and gives



better engagement by including visuals, multimedia, presentations, workshops, projects, and many more.

Less training costs: for an organization, blended learning offers various ways of training and hence cuts down the travel and accommodation costs it also improves productivity.

Allows students to learn at their own pace: Successful training is one that can work with anyone's schedule and it should be available easily. Blended learning makes it possible. Students can learn through the online materials in their free time or use them to recall the concepts when needed and then ask queries in person. It makes the students more active.



It can be customized: Blended learning can be designed according to the need and the environment. It helps to set up multiple learning channels to cater to every student and teacher's needs, learning style and demands.

The contributing factor to the rise in the popularity of blended learning is the rise of digital and mobile learning technology. The students can now do a face to face group work in a classroom and then go home to analyse that work and submit a video as

an assessment. A course can be taken online and live doubt-clearing sessions can be organized.

After the pandemic, the importance of including online education has become much more important. The new education policy suggests that the students get an open choice to choose from a list of subjects. Blended learning can offer great opportunities for schools and universities to offer a wide range of subjects with the help of MOOCS (Massive open online courses). Teachers with the help



of these can give a great learning experience. There are many resources available to make blended learning possible such as Google Classroom, YouTube, Zoom, Microsoft teams, Moodle, Blackboard, and make more. With these amazing platforms and well-trained teachers, blended learning can be a boon to the learning community, especially to this generation of students.



NEP 2020 aims to help the students study any subject combinations, or even design their own degrees. Blended learning models will be pivotal in creating multiple entry and exit points in this 'stu

dent-centric' learning journey, where learners could seamlessly steer the 'what', 'when' and 'where' of learning.

The classroom experience with blended learning 2.0, is just as promising. Technology tools would allow educators to personalise every student's learning journey, pinpointing the support required. Virtual environments with Augmented Reality (AR) and Virtual Reality (VR) would open breakthrough applications in the study of Medicine and Engineering, helping students build expertise without risking costly real-world errors. Faculty would have new aids to break down complex concepts in STEM and hone students' skills like problem-solving, core to the vision of NEP.

With new models of virtual, hands-on learning, universities can increasingly deliver labs and practical sessions that help students build job-relevant skills and master in-demand industry tools, boosting employability. In fact, blended models could be the bridge to improve career outcomes, allowing universities to upgrade and supplement campus offerings with cutting-edge online courses taught by experts worldwide.

New-age learning models unlock a powerful opportunity to expand access to higher education at the scale India needs to increase Gross Enrolment Ratio (GER) in higher education to 50% -- an NEP goal. Online learning can create this path to skill millions of Indians and serve diverse, geographically scattered student populations, democratising access to a high-quality education.

Blended learning can also make Indians career ready. Working with governments globally, we are seeing how this can upgrade entire national higher education systems. There is an opportunity to catalyse the internationalisation of education envisioned in the NEP, paving the way for India's leading higher education institutions to build strong 'Made in India' brands. Blended learning 2.0 has the potential to unlock new opportunities and solve long-standing challenges, to catalyse the transformation of India's higher education system. NEP has laid down a bold vision to reimagine higher education with inclusion and equity. Innovating with the delivery of education can be the breakthrough that takes us closer to it.

About the Author



Prof. Keshava Reddy is a professor of Mathematics at JNTUA College of Engineering Anantapur and presently serving as the Director of Evaluation at JNT University Anantapur. He has written books on Mathematics which will not only improve the knowledge of engineering students and help students to improve their research capabilities in Mathematics. His Modular Object-Oriented Dynamic learning Environment (Moodle) site is <http://keshava.moodlecloud.com> or <https://keshava.moodle.school>, through which he teaches Mathematics to B.Tech. and M.Tech. students online. He is guiding young minds to achieve their research goals in the field of Mathematics.

BATTERIES “A BOON TO MANKIND”

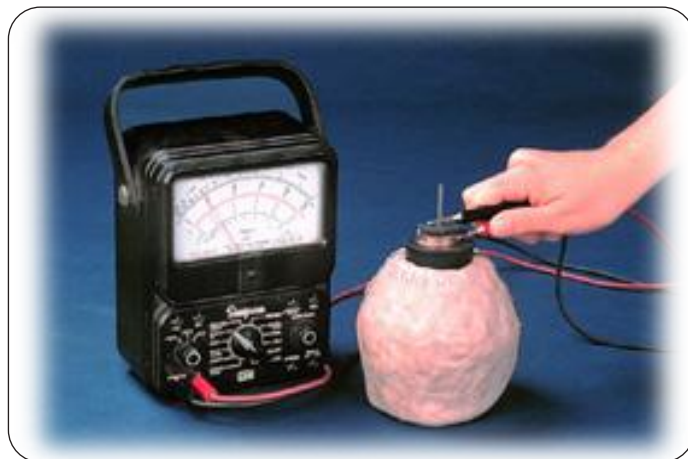
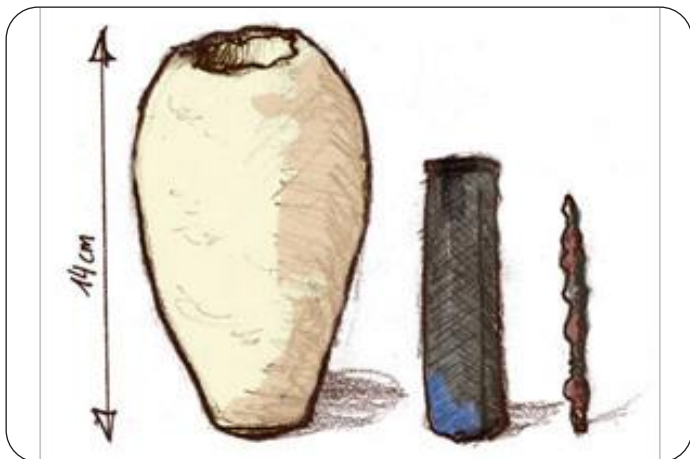
(Translation of Dr. R Padma Suvarna’s speech on Batteries delivered in Telugu on AIR FM 101.7 on 29/12/2002 at 07:20 AM)

Transcript prepared by Mr. D. Pavan Kumar, 3rd Year B.Tech, Chemical Engineering, JNTUA CEA.

Ancient Battery Use

Ancient batteries are said to have been made by the Parthians around 250 BC. They made a clay pot

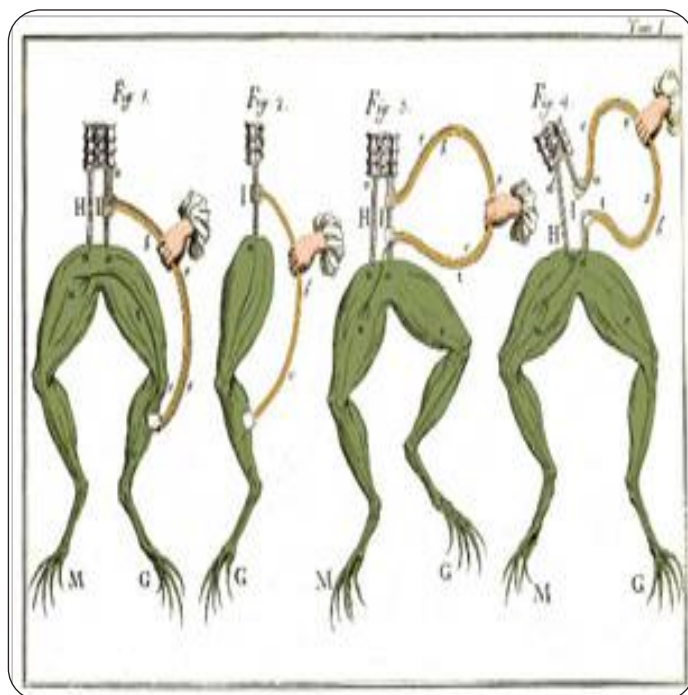
and filled it with vinegar or acetic acid and placed a stone cylinder with an iron rod inside.



Galvani's Experimentation with Frogs

In the year 1780, Galvani, an Italian physician, and anatomist, was experimenting by attaching the legs and spines of emaciated frogs to iron rods. He observed movement in the frog's leg when another metal touched the iron rods. Galvani observed

the legs of a frog hanging on a metal frame during a lightning storm and attributed the movement to electricity, calling it 'animal electricity.'



(Galvani was a scientist who discovered a new way to get electricity while working with frog legs. He did not understand the importance of his discovery before he died.)

Volta's Explanation of Electric Force

Alessandro Volta of Italy stated in 1800 that the cause of the electric force is two dissimilar metals and a probe of the other metal and not the frog's legs or muscle response. Volta also developed the modern battery to prove that the production of electricity does not require animals.



(The voltaic pile was made of alternating copper and zinc conductive discs with a weakly acidic layer.)

Modern Battery Development and Use

These batteries are made of zinc and copper plates with pieces of leather soaked in salt water placed between each plate. These slabs are stacked on top of each other. Electricity flows when both ends of these conductors are touched. This is called



an electric cell or electric battery. The unit of electromotive force is named as Volt in honor of Volta for his invention.

Importance of batteries in the industry

A common source of power now-a-days is a battery. A battery is a device that produces electricity. Batteries were vital to the industrial revolution provide opportunities to strengthen the power. Portable power provided by batteries can be used in a variety of places and applications such as cellphones, remote controls, electric vehicles, and laptops that we use in our daily lives depend on bat-

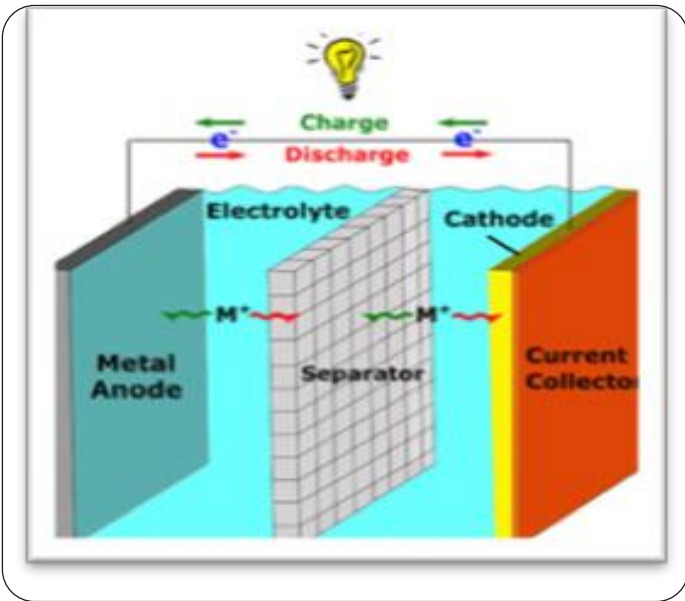


teries. The reason why batteries are important is they provide a constant flow of electricity. These batteries usually range in size from less than a pencil, or eraser, to about 2000 sq feet. A battery is a collection of one or more electrochemical cells capable of converting stored chemical energy into electrical energy.

Components and operation of batteries

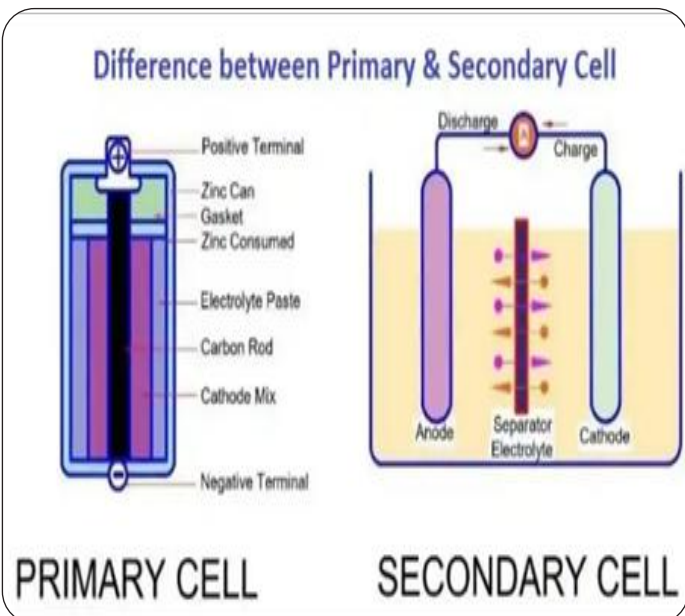
A battery has three basic components. A battery consists of three main components: an electrode with a positive charge (cathode), an electrode with a negative charge (anode), and an electrolyte solution containing ions. An electrolyte solution is a liquid that contains ions and can exist in either solid or

liquid form. It is capable of being released through chemical reactions at the anode and cathode. Electrolyte i.e., the solution of ions plays an important role in the operation of the battery.



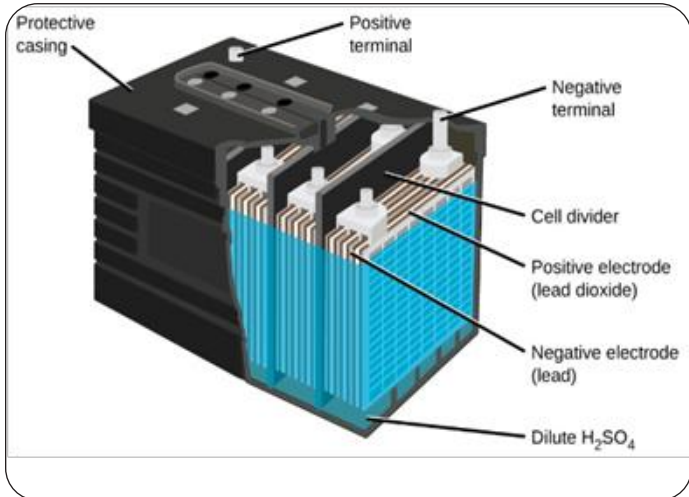
Primary and secondary battery types

Based on the working of the battery they are divided into two types. Batteries that are used for single use only are called primary batteries. That means energy cannot be regenerated after use. For example, commercial batteries in the market, also known as dry batteries, belong to this category. These are used for watches, torch lights, and remotes. Primary batteries are also called disposable batteries. Batteries that can be recharged after one use are secondary batteries. These are also called secondary storage or rechargeable batteries.



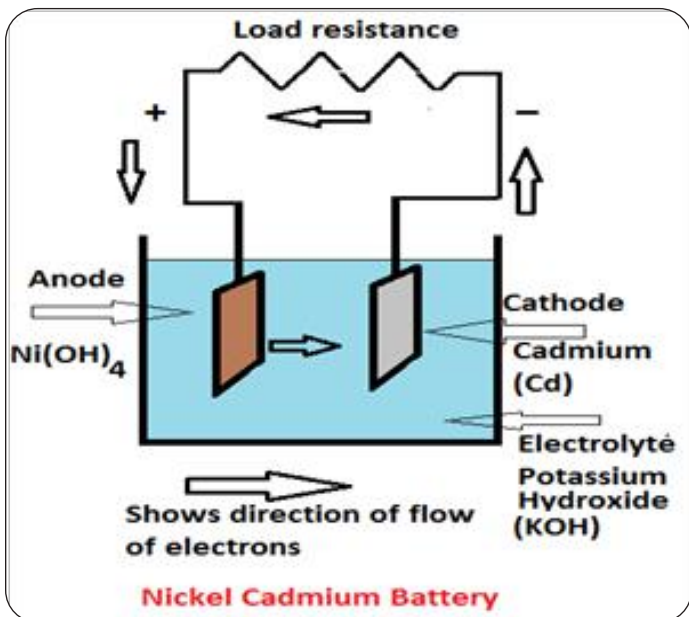
Examples of commercial/dry batteries

Lead-acid batteries are widely used in automobiles, inverters, power backups, etc. Commercial batteries, also known as dry batteries, belong to the category of primary batteries and are used for single-use applications such as watches, torch lights, and remotes.



Nickel-cadmium battery characteristics

Nickel-cadmium, lead-acid, and lithium-ion batteries belong to secondary batteries. Nickel-cadmium batteries can be recharged many times. Apart from this, these batteries have fairly stable charges and high electrical capacity during discharge.



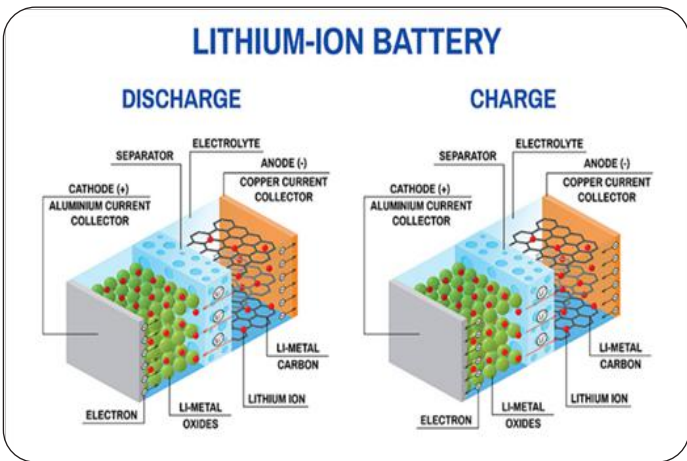
Lithium-ion battery advantages

Nowadays, lithium-ion batteries are popularly used in electronic portable devices such as mobile

phones, laptops, and digital cameras. These are the most popular batteries having advantages like the best power density, least charge loss, and memory efficiency, and are worth the heavy use. Lithium-ion battery technology has many advantages. Lithium-ion batteries have a longer lifespan and much lower maintenance costs compared to batteries that were used in the past. Compared to older technologies like acid batteries, lithium-ion batteries have made major strides toward a greener future.

Solar batteries

Solar battery manufacturers are also using renewable fuel sources for electricity. The ease of maintenance of solar batteries will make renewable energy sources preferred in the future when fossil fuels are exhausted.



Translator from Telugu to English

Dandu Pavan Kumar is currently pursuing third year Bachelor's in Chemical Engineering at JNTUA CEA. He is deeply passionate about becoming a successful entrepreneur in future.



About the Speaker



Prof. R. Padma Suvarna has obtained M.Sc (Physics) from Sri Krishnadevaraya University, Anantapur in 1994, M.Phil., in 1997 and Ph.D in 2002 from the same institute. In 2011, she joined as an Associate professor in Jawaharlal Nehru Technological University in Anantapuramu and in 2015 she became a Professor in the same institution. Served as the Head of the department from 2011 to 2022, and from 2022 onwards she has been serving the University as the Director for Sponsored Research. Till now, she has guided 07 Ph.D. students as a supervisor, 09 Ph.D. students as a Co-Supervisor and 6 students are presently pursuing under her guidance. She has presented several popular talks on Science in All India Radio (AIR).

STRATEGIES OF SUCCESSFUL PEOPLE

- Dr. R.Manjula

Time Management is just like money management . Money management is not just about spending money but investing money. As you invest your money for higher returns so also you have to invest your time for greater result.



We all have the same 24 hours every day. The most important time management strategy is to identify how you spend your time every day. The following are the time management strategies of successful people.



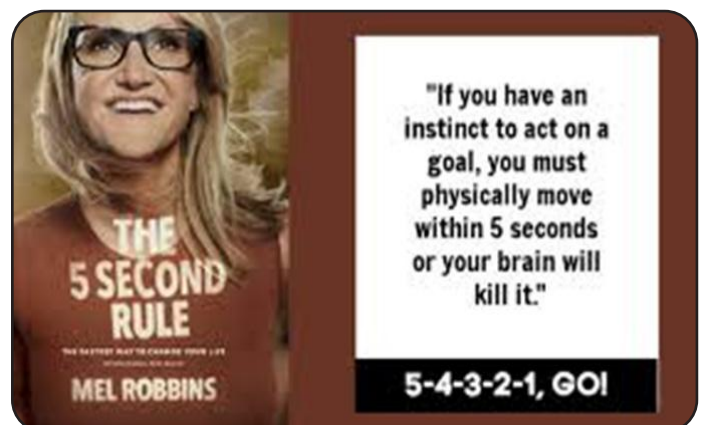
1 - Set your Goal

Goal setting is a road map to effective time management. Most of the people are not able to achieve their goals not because of lack of time but because of lack of direction. Brian Tracy the author, and motivational speaker says that “ lack of clarity is the number one time waster” If you don’t have clear goal, you don’t know what to do with your time. If you have clear goal it is easier for you to spend time to achieve that goal. You can set goals in any aspect of your life. What you exactly want in your life? What you want in your professional life? What you want in your personal life or in your business life. The clear the goal easier the time management.

2 - Over come laziness

Laziness is nothing more than the habit of resting before you get tired.--- Jules Renard

Most of us might have experienced the phenomenon of laziness. Laziness breeds more laziness. We should remember laziness is not genetic trait. If we say, we are lazy, we become more lazy. According to Newton’s law of motion the body which stays in motion will stays in motion. The body which stays in rest will seek more rest. If you are in rest mode for longer time you don’t want to move. If we are in motion mode of working we don’t want to takerest.



In order to overcome laziness, Mel Robbins the author of 5Second rule, suggested 5-second rule. The moment your brain gets an instinct to work on your goal, you should physically move within 5 seconds otherwise your brain stop that instinct. Say example, if your goal is to start writing a book -apply 5 second rule. Just COUNT DOWN 5-4-3-2-1- and within 5 seconds swing into action.

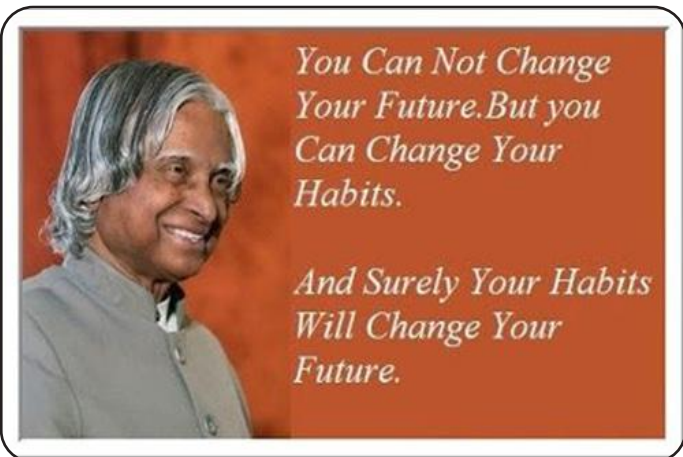
3 - Maintain To do list

Preparing to do list is an excellent time management strategy. When you are preparing the to do list, see the quality but not quantity. Apply Pareto principle to prepare to do list. According to Pareto principle, only 20 percent of our activities will highly account for our success. The remaining 80% of the things that we do in our daily life are not contributed to our success. For effective time management prepare a to do list and give first priority to the most important one and drop the least important one.



4 - Build good habits

Time management is managing yourself and managing your habits. According to Aristotle 95% of every



thing you do is the result of your habit. Laziness is a habit. Procrastination is a habit. Gossip is also a habit. Replace all these bad habits with good habits such as : habit of goal setting , habit of punctuality, habit of self discipline, habit of writing to do list, habit of reading, habit of positive thinking, and habit of setting dead line for every work. Frankly speaking, our time management starts with our good habits.

5 - Avoid Procrastination

Procrastination is a very bad habit that creates a feeling of anxiety and stress, In order to deal with procrastination David Allen's the author of the bestselling book, Getting Things Done suggested The 2-Minute Rule .According to this rule, any work once it is started , it is easier to continue. Any work once it gets started, it is much easier to keep it moving. There is an Irish proverb "a good start is half the work done."



"If you have the courage to start, you have the courage to succeed." - Mel Robbins

6 - Use Urgent and Important Work Principle

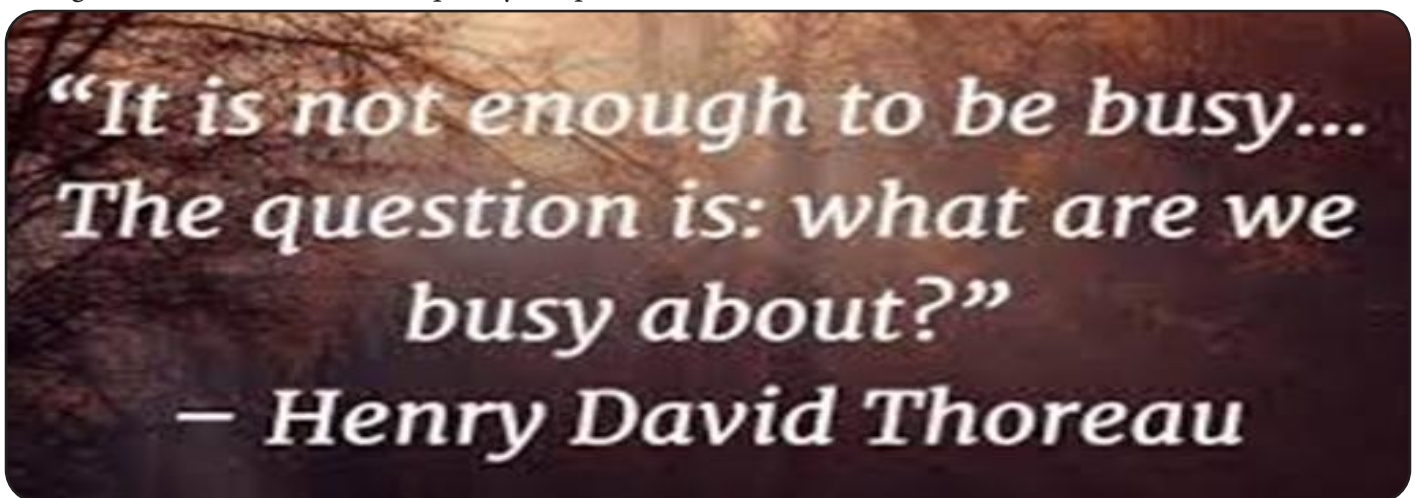
All you need to do is write all your urgent and important works in this first column. Then write only important but not urgent activities in the second column, then write only urgent but not important activities in the third column then write not important and not urgent activities in the last column.



Dwight D. Eisenhower was the 34th president of United States who invented the Eisenhower principle for time management.

Identify what are the works that can be completed quickly and what are the activities that can be postponed, What are the works that can be delegated, and what are the works that can be eliminated from your to do list. First of all try to finish the tasks that are important and urgent as early as possible. Delegate the tasks that don't require your personal

attention. Eliminate the tasks that are neither important nor urgent. Finally consider only the important tasks with careful attention, planning and thoughtful action. Effective time management is identifying what is important and urgent work and what is not important not urgent work.



About the Author



Dr. Reddivari Manjula is presently serving as an Asst. Professor of English in JNTUA College of Engineering, Anantapuramu, Andhra Pradesh, India. She presented number of papers in national as well as International conferences on English literature and English Language teaching. Her scholarly papers are published in various national and International journals. She is an author of two books titled ‘Tagore: The Novelist’ and ‘ Interview Skills for Students’ . She is also co-editor of three books titled ‘Teaching English Language & Literature: Challenges & Solutions, Teaching English Language & Literature: Innovative Methods and Practices , and Reflections of English Language and Literature.’



CEA RE-UNION OF 1972-77 BATCH - Alumni News

Jawaharlal Nehru Technological University Anantapur

The 1972-77 batch Ananthapur Engineering College Students met at JNTUA CEA in a Reunion on 17-12-2002 at Mechanical Engineering Department Seminar Hall. Prof. G. Ranga Janardhana attended as the Chief Guest of the reunion function. Former UPSC member Prof. Y. Venkatrami Reddy who also belongs to the same batch addressed the reunion. Later the alumni of 1972-77 batch felicitat-

ed Prof. Y. Venkatarami reddy, Prof. Sai Baba Reddy, Hon'ble Vice Chancellor Prof. G. Ranga Janardhana and the college Principal Prof. P.Sujatha. A total of 50 old students participated in the reunion Registrar prof. C. Sashidhar, Dr. Prasad Raju, Prof. Satya Prasad, Nagaraju Swami, Pulla Reddy, Jayaramaiah, Raghunath, PRO Dr. Rama Sekhar Reddy were among the attendees..



Students Interaction Programme on 14-12-2022

Jawaharlal Nehru Technological University Anantapur

Students Interaction Program was conducted on 14-12-2022 at College Auditorium, JNTUA CEA in a grand manner. Hon'ble Vice Chancellor Prof. G. Ranga Janardhana attended as Chief Guest and Anantapur DSP M. Srinivasulu was the invited guest. Speaking on the occasion Hon'ble Vice Chancellor said, "In a students life, time for studying at college is highly precious. One should always research for gaining knowledge. Studying in a group can help improving ones knowledge. Student should be aware of latest technologies and inculcate the quality of service. The first year students should focus on studies and set personal goals. Most happy days in ones life are those days spent at college. Students at this college are meritious with good ranks at entrance tests and definitavely will achieve great positions in future. Students should plan for their career during these four years". Later the invited guest Anantapur Disha Ladies Police Station DSP A. Srinivisaulu said, "Anantapur Engineer College is a 75 years old college

with great history. Every student should feel proud about it. Every student should recognise good and bad and adopt seniors as role models and mentors. Your lives are in your hands only. You must strive hard for what you have dreamed. Every student must recognize the hard work of parents and ensure that they raise to high levels in their lives". On the occasion the first year students were welcomed into the college. Prizes were handed over to the students who excelled in different sports. The programme was presided by the college Principal Prof. P. Sujatha. Director of Evaluation Prof. E. Kesava Reddy, Vice Principal Prof. R. Bhavani, Sports Council Secretary Sri. Joji Reddy, Heads of various Departments Prof. N. Visali, Dr. D. Vishnu Vardhan, Dr. Saila Kumari, Dr. B. Dilip Kumar, Dr. Omprakash, Dr. Aruna, Dr. S. Sharadha, Dr. Manjula, PRO Dr. M. Rama Sekhara Reddy, teaching, non teaching staff and students of the college attended the programme.





Felicitation of the Chief Guest Hon'ble Vice chancellor Prof. G. Ranga Janardhana and the invited guest DSP M. Srinivasulu by the college officials. **Date: 14.12.2022**



Classical Dance by a student during the Students Interaction Program 2022 - 23. **Date: 14.12.2022**



Group Photos of Students with the guests and the college officials at the end of the program. **Date: 14.12.2022**



News from Constituent Units



JNTUA CE Ananthapuramu

1. JNTUA CEA has conducted Seminar on Key Automotive trends and opportunities in Future Mobility on **06.12.2022** “**To create awareness about recent trends in automotive industry**” Keynote Speaker: Sri. Manjunath Peddakotta, Director Academic Programme, Gannet Academy, Bangalore

2. The Alumni Association Office, ANECA, JNTUCEA was inaugurated by Hon’ble Vice Chancellor on **08.12.2022**. Prof. Y. Venkatarami Reddy, Former Member of UPSC; Principal, Teaching staff and Alumni members attended the program.

3. Hon’ble Vice Chancellor attended as Chief Guest for the **Fresher’s Day Program** of JNTUA CEA, on **14.12.2022**. The program was held at College Auditorium, CEA. Sri Sreenivasulu, DSP, Disha; Principal, Teaching staff and students attended the program.

4. Hon’ble Vice Chancellor attended as Chief Guest for the inauguration of **Blood Donation Camp** at JNTUA CE Ananthapuramu on **17.12.2022**. The program was conducted by the NSS Unit of the college and Indian Red Cross Society. Prof. Y. Venkatarami Reddy, Former Member of UPSC; University Officials, Principal; 1972-77 Alumni Batch along with family members attended the program.

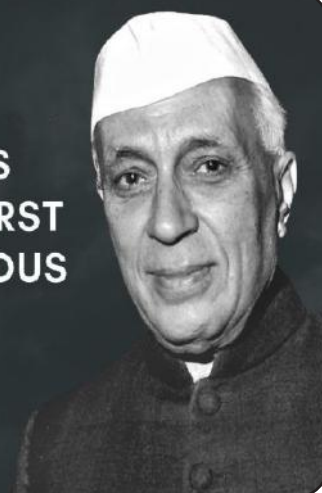
5. Hon’ble Vice Chancellor attended as a Chief Guest for the **1972-77 Alumni Batch GET-TOGETHER Program** at JNTUA CE Auditorium on

17.12.2022. Prof. Y. Venkatarami Reddy, Former Member of UPSC; University Officials, Principal, Teaching staff attended the program.

6. Workshop on “**Power Electronics for Precision Farming with Substantial and Cleaner Environment**” organized by IEEE Ananthapuramu subsection on **22.12.2022** to understand the Power Electronics Applications in Farming. Speaker Dr. Brij. N. Singh, Regional Manager, External Relationship, John Degree Intelligent Solutions Group, USA.

7. B.Tech. III year students of Department of Chemical Engineering, JNTUA CE Ananthapuramu visited Berger Paints, Hindupur to acquire practical knowledge on various industrial equipment and processes on **24.12.2022**.

**THERE IS PERHAPS
NOTHING SO WORST
AND SO DANGEROUS
IN LIFE AS FEAR.**





1. Hon'ble Vice Chancellor attended the meeting on **02.12.2022** regarding discussion on after delegation execution of courses at Universities with the German Association. The Rector, DAP, DFAAM, Principal attended the meeting.
2. "IPA Student Convention-2022" was conducted at Raghavendra Institute of Pharmaceutical Education and Research, Ananthapuramu, **03.12.2022**. Dr. Montu Kumar Patel, President, PCI; Vice Chancellor, SKU, students and teaching staff attended the program. Hon'ble Vice Chancellor graced the occasion as Chief Guest.
3. Pre Ph.D., Examinations were conducted at JNTUA College of Engineering, Ananthapuramu on **03.12.2022**.
4. Hon'ble Vice Chancellor interacted with students of Final Year, JNTUA CE Kalikiri on **05-12-2022**; JNTUA CE Ananthapuramu on **06.12.2022** and JNTUA CE Pulivendula on **07.12.2022** regarding MS program at Germany. The interaction program was held at respective college auditoriums. The principals of respective colleges, teaching staff and students attended the program.
5. Floral tributes were paid to Bharath Ratna Dr. B.R. Ambedkar on occasion of his Mahaparinirvan Diwas on **06.12.2022**. Hon'ble Vice Chancellor, the Rector, Registrar, University Officials, teaching and non-teaching and students attended the program.
6. A review meeting regarding NIRF Rankings for the year 2023 was conducted on **08.12.2022**. The Rector, Registrar, University Officials, Constituent college Principals and teaching staff attended the meeting. Hon'ble Vice Chancellor chaired the meeting.
7. Hon'ble Vice Chancellor attended the ISTE Awards distribution program at Adithya Institute of Technology Engineering College, Tekkali, Srikakulam Dist., AP. on **10.12.2022**. The Chairman, APSICHE, AP and awardees attended the program.
8. Hon'ble Vice Chancellor attended the All-VCs' meeting with Hon'ble Minister, Education, Andhra Pradesh, AP at APSICHE on **15.12.2022**.
9. Virtual Training Program on "SCOPUS-Its utilization" was conducted on **15.12.2022** for purpose of highlighting the importance of SCOPUS in enhancing faculty research activities.
10. Indo-Euro synchronization online meeting was held under the Chairmanship of Hon'ble Vice Chancellor to discuss the Employment linked Master's program on **19.12.2022**. The Rector, DFAAM, Principals of Constituent colleges and concerned persons of Indo-Euro synchronization attended the meeting.
11. A meeting was held under the chairmanship of Hon'ble Vice Chancellor **20.12.2022** in connection with procurement of furniture to new Admin-

istrative Block, JNTUA. The Rector, DAP, DICS, UE, Principal of CEK attended the meeting.

12. Orientation Program for Telugu Translators (Under AICTE Textbook Writing Scheme) was conducted by Directorate of Faculty Development, JNTUA on **21.12.2022**. Dr. Dinesh Singh, ATAL FDP, AICTE, New Delhi; Prof. P. R. Bhanumurthy, Director, FDC, University Officials, Principal, teaching and non-teaching staff attended the program. Hon'ble Vice Chancellor attended the program as a Special Chief Guest.

13. A program titled **“Power Electronics for Precision Farming with Substantiable and Cleaner Environment”** was conducted by IEEE ATP Sub-section, JNTUA IEEE Student Branch on **22.12.2022**. Hon'ble Vice Chancellor attended as Chief Guest for the inaugural function.

14. An interactive session on Assessment and Accreditation by NAAC conducted for JNTUA constituent and affiliated colleges on **22.12.2022**, The Program was addressed by the Vice Chairman, APSICHE. The Rector, Registrar, DIQAC, University Officials, Principals of Constituent and Affiliated colleges, IQAC Coordinators attended the program.

15. 23rd Executive Council meeting of JNTUA was held through virtual mode under the chairmanship of Hon'ble Vice Chancellor on **22.12.2022**.

16. APHEPB – ATP Regional Cluster Coordinators Meeting was held under the Chairmanship of Hon'ble Vice Chancellor on **23.12.2022**. The Vice Chancellors of Urdu University, Cluster University, Rayalaseema University, Sri Satya Institute of Higher Learning, BEST University; Registrar, SKU; Deans of IIITDM, Kurnool & Central University, AP; Rector, JNTUA, Director of Sponsored Research, JNTUA attended the meeting.

17. A review meeting of NIRF Assessment was held in presence of Hon'ble Vice Chancellor, JNTUA and Prof. K. Balaveera Reddy, Former VC, VTU, Belgavi, Karnataka on **27.12.2022** and **28.12.2022**. The Rector, Registrar, University Officials, HODs' and Teaching staff attended the meeting.

18. Hon'ble Vice Chancellor attended the 4th meeting of AP Higher Education Planning Board regarding **“Fostering Social Responsibility of HEI's thorough Community Engagement”** at ANGRAU, Guntur on **29th & 30th** December 2022 conducted by the APSICHE, AP. The Chairman, APSICHE, AP graced the occasion as the Chief Guest. Dr. G. Sathesh Reddy, Scientific Advisor to Min. of Defense, India; Prof D.N. Reddy, Former Vice Chancellor, JNTUH addressed the gathering virtually.

**“Cultivation of Mind
Should Be
the Ultimate Aim of
Human Existence.”**



University Examination Results

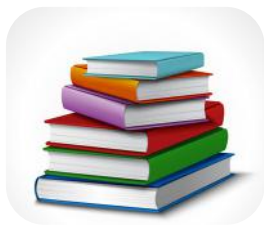


Results of the semester end examinations conducted by the university declared in the month of December 2022 are follows:

- 07.12.2022:** Results of B.Tech I Yr, II-II & III-I Reg & Supple July/Aug/Sep 2022 Exams, B.Pharm I-II (R19) Regular November 2022, M.Tech I sem (R17) Supple Oct/Nov 2022, MBA I & II sem Reg & Supple Oct/Nov 2022 & MCA I & II sem Reg & Supple Oct/Nov 2022.
- 13.12.2022:** Recounting results of B.Tech IV Yr II sem (R15) Adv. Supple August 2022 & MBA IV semester (R17) Reg & Supple Sep/Oct 2022.
- 15.12.2022:** Results of B.Tech II, III, IV Yrs I & II sem Supple July/Aug/Sep 2022.
- 19.12.2022:** Recounting Results of MCA V sem (R17) Supple Sep/Oct 2022, B.Tech III Yr I sem (R19) Supple July/Aug 2022, B.Tech II Yr II sem (R19) Supple Aug/ Sep 2022
- 22.12.2022:** Results of Pharm.D Reg & Supple Nov/Dec 2022, M.Tech, M.Pharm & M.Sc Reg & Supple Oct/Nov/Dec 2022
- 23.12.2022:** Challenge Valuation results of B.Tech I Yr I sem (R15) Supple April/May 2022.
- 26.12.2022:** Results of Pharm.D (P.B) II Year Adv. Supple Nov/Dec 2022.
- 30.12.2022:** Results of B.Tech I-I & I-II sem (R20 & R19) Reg & Supple September- 2022

Projects Initiated, Completed /Consultancy works undertaken

- Mr. M. Kalyan Kumar** Assistant Professor of Chemical Engineering, JNTUA CE Anathapuramu initiated project titled “**Treatment of Municipal Waste Water by Electrocoagulation**” funded by JNTUA under ‘**Research Seed Grant**’ Scheme.
- Department of Civil Engineering, JNTUA CEA generated an amount of **Rs. 2,62,102/-** through Industrial Consultancy Service



“ Books / Book Chapters Published ”

1. Dr. Balakrishna Avula, of Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal published a book “A Compendium on Advanced Topics in Organic Chemistry” with ISBN number 979-8889096955 by Notion Press.
2. Dr. Rajesh of Sri Venkateswara College of Engineering, Tirupati published a book chapter titled “Development of Al6061/CNT Metal Matrix Nano Composites and Optimization of its Process Parameters in Drilling” on 29-12-2022.



“ Patents Awarded ”

1. Dr. G. V. Nagesh Kumar of JNTUA CE Pulivendula published a patent “Solar Home Automation and Security System” Application Number is 2022241074118.
2. Prof. B. Prahlada Rao of Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal is granted a patent on “Method And System For Dynamic Adaptation of Program Execution on Different Target Hardware”, by The Patent Office, Government Of India, Chennai, patent no:- 415299 and Date of Grant:23/12/2022.
3. Dr.M.Chandra Sekhara Reddy and others of Sri Venkateswara college of Engineering, Tirupati published a patent titled “An assembly provided with wind energy storage and electricity generation and method There of” patent no:202241073035 filling :16/12/2022
4. Prof. K. Saravana kumar of Seven Hills College of Pharmacy published a patent titled “A Reverse phased – Ultra performance liquid chromatography-based methods for simultaneous determination of daunorubic in Cytarabine” on 23.12.2022.
5. Prof. K. Saravana kumar of Seven Hills College of Pharmacy published a patent titled “Variable dosage digital medical atomizer” on 21.12.2022.

Journal/Conference Publications:

The faculty members of the University published 23 research papers and affiliated colleges have published 69 research papers in peer reviewed journals, seminars & conferences.



**Dr. K. Madhavi, HoD, Computer Science & Engineering Department JNTUA CEA
receives ISTE AP Section
RGM CET State Award for “Best Engineering Teacher-2021”.**

Dr. K. Madhavi is an Associate Professor & Head in the Department of Computer Science and Engineering and TEQIP – III coordinator at the JNTU College of Engineering (Autonomous), Ananthapuramu, Andhra Pradesh, India. Previous to that, she served in various administrative and academic positions. She has around 20 years of teaching experience in the field. Dr. K. Madhavi is known for her computer networks, networks security, mobile computing, cloud computing, and distributed computing research, publishing more than 70 papers in the area. She authored a textbook on R programming, one of the top-selling books in the market. She is a member of IEEE, CSI, ISTE & IE. She is the recipient of “Best Engineering Teacher-2021” from ISTE - AP and “Adarsh Vidya Saraswati Rashtriya Puraskar” from the Global Management council in 2018. She is the principal Investigator of UGC funded project “A real-time Rolled Fingerprint Recognition using MATLAB.” She currently holds two patents. Under her esteemed guidance 4 scholars



completed their Ph.D., and 9 scholars are continuing their Ph.D. She has organized and attended many Faculty development programs, workshops, and seminars. She has delivered many guest lectures and academic sessions. She has been an editorial board member and reviewer for many peer-reviewed journals and conferences. She served as a chair and judge for many technical events.



Prof. G. Madhavi receiving the Best Engineering Teacher-2021 Award from Prof. K. Hemachandra Reddy Chairman APSCHE on 10-12-2022 at Aditya Institute of Technology and Management, Tekkali, Srikakulam.

Important National & International Days in December



National Pollution Control Day is celebrated on **2 December** to raise awareness about pollution and its hazardous effects. This day is observed in memory of the people who lost their lives in the Bhopal gas calamity which is considered one of the biggest industrial disasters.



3 December - World Day of the Handicapped is also known as the **International Day of People with Disabilities (IDPD)**. It is observed on 3 December to raise awareness about understanding and accepting people with disabilities.



4 December - Indian Navy Day
Indian Navy Day is celebrated every year on 4 December to highlight the role, achievements, and difficulties that Navy people face.



International Volunteer Day (IVD) is celebrated on **5 December** every year. This day provides a chance for volunteers and organisations to celebrate their efforts, and values and promotes their work among their communities, etc.



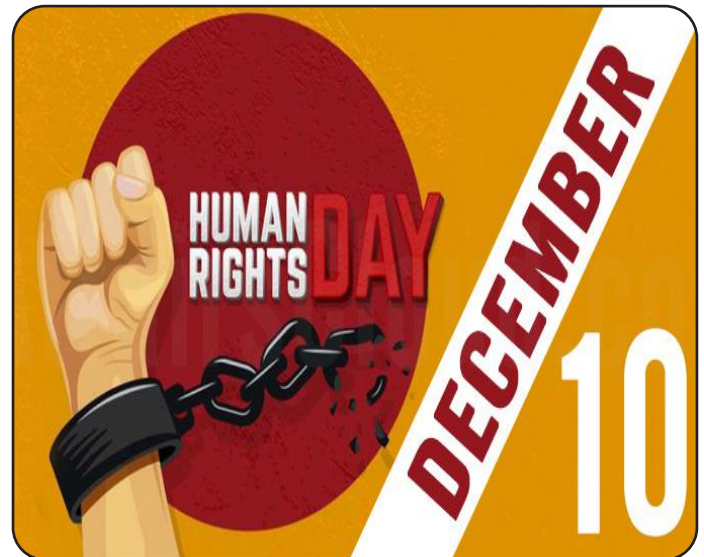
6 December - Dr. B.R. Ambedkar's death anniversary
The day is observed to commemorate his unforgettable contribution to society and his achievements.



Armed Forces Flag Day is observed across the country on **7 December** with the objective of collecting funds from the common people and honoring the martyrs and the men who fought with bravery on the borders to safeguard the country's honor.



International Civil Aviation Day is observed on **7 December** worldwide to raise awareness about its importance to the social and economic development of States and the role that ICAO plays in International air transport.



Human Rights Day is celebrated on **10 December**. The Universal Declaration of Human Rights was adopted in 1948 by the United Nations General Assembly. This day is observed to protect the fundamental human rights of all people and their basic human freedom.



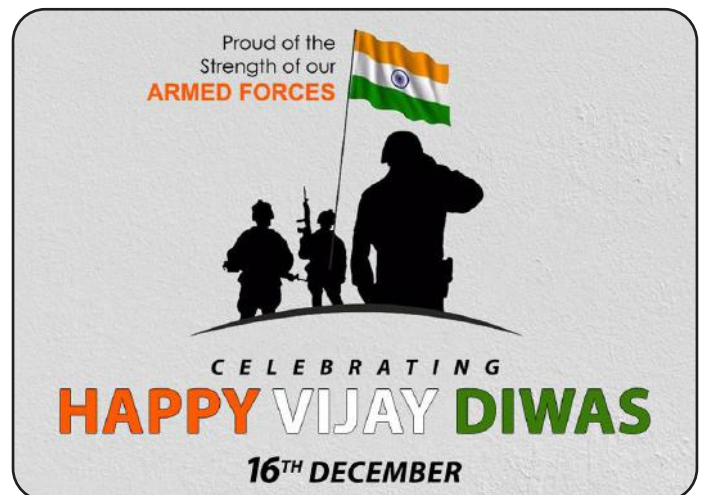
11 December - UNICEF Day
It is observed on 11 December by the United Nations. UNICEF stands for United Nations International Children Emergency Fund.



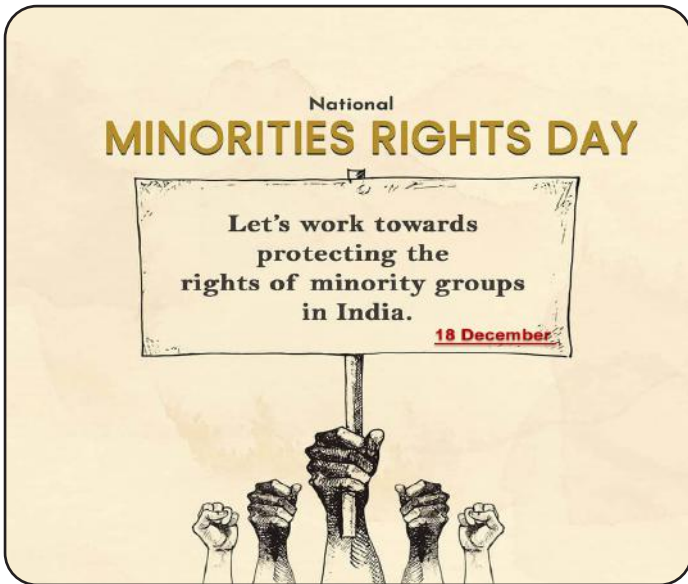
The United Nations proclaimed **12 December** as **International Health Coverage Day (UHC)** by resolution 72/138 on 12 December 2017. The purpose behind celebrating the day is to spread awareness of the need for strong and resilient health systems and universal health coverage with multi-stakeholder partners.



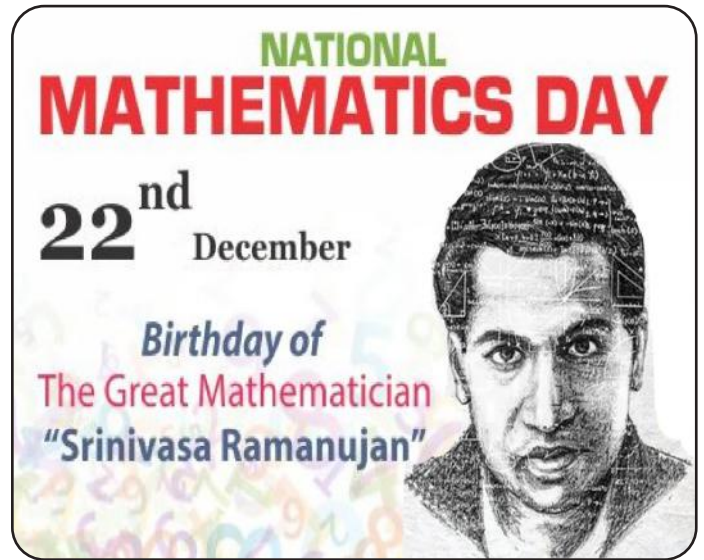
14 December - National Energy Conservation Day
It is observed on 14 December to raise awareness about the need for energy and its conservation in daily life. Since 1991, it is celebrated every year on 14 December by the Bureau of Energy Efficiency (BEE), under the Ministry of Power.



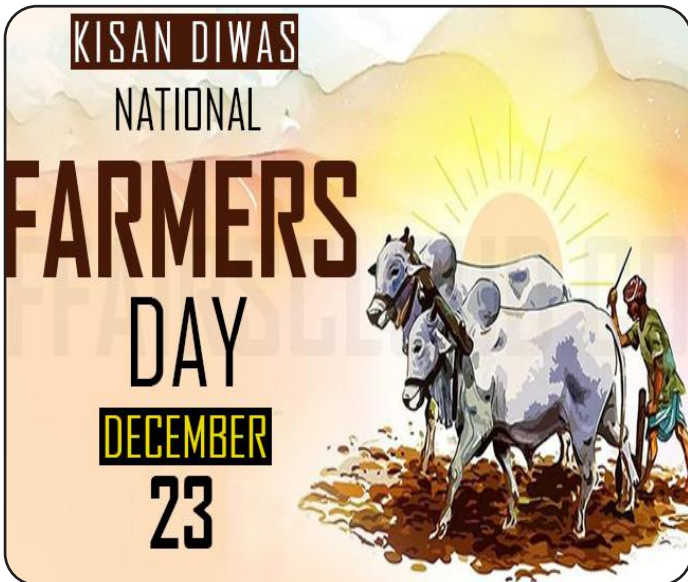
16 December - Vijay Diwas
Vijay Diwas is celebrated on 16 December in India to remember the martyrs, and their sacrifices, and to strengthen the role of armed forces for the cause of the nation.



Minorities Rights Day in India is observed on **18 December** to preserve and promote the rights of minority communities in India. This day focuses on issues like the safety of minorities in the state. On this day several campaigns, seminars, and events are conducted to inform and educate people about them.



National Mathematics Day is celebrated on **22 December** annually to commemorate the birth anniversary of the famous mathematician Srinivasa Ramanujan. He had made remarkable contributions to various fields of mathematics and its branches. He was born on 22 December 1887 in Erode (Tamil Nadu).



23 December - Kisan Diwas
Kisan Diwas or Farmer's Day in India or National Farmer's Day is celebrated on 23 December across the country to commemorate the birth anniversary of the former Prime Minister Chaudhary Charan Singh. On this day various events, seminars, functions, and competitions are organized on agriculture and its importance to educate and provide knowledge to the people.



National Consumer Rights Day is observed on **24 December** annually with a particular theme across the country. The Consumer Protection Act, of 1986 received the assent of the president on this day. It is considered a historic milestone in the consumer movement in the country. This day also provides awareness about consumer rights and responsibilities.



26 December: Boxing Day
Boxing Day, the day after Christmas was when boxes filled with small gifts and money would be given to household servants and employees who had to work on December 25.



APSCHE

Andhra Pradesh State Council of Higher Education

From the Chairman's Desk



Fear of Failure

Dear Students, at some point in our lives, we all would have experienced failure in some form or the other. But then, how did we react to failure? Did we start fearing our future failures and did we stop giving it a try again? What did we learn from the failure? *Atychiphobia* i.e. fear of failure subconsciously undermines our efforts to avoid the possibility of a larger failure. This fear of failure immobilizes us, affects our self-confidence, and makes us anxious we start avoiding the work. When we allow this fear to cease our progress in life, we're going to miss some of the greatest opportunities of our life. Most of us will stumble, fall and fail in our lives. Doors will get slammed on our faces, and get humiliated in front of everybody. We might make some very bad decisions and might lose our valuable time and money. We have to understand that failure isn't the opposite of success but an integral part of success. It serves as a stepping stone for our growth and re-purposes us for the greater good of our lives. *Fear kills more dreams than failure ever.*

Is it worth fearing failure? No. Is it worth failing? Yes. Let us take an example. Facebook is the most successful social media network we know today. However, Mark Zuckerberg built many networks like chat systems, study tools and games

before succeeding with Facebook (now Meta-verse). J.K. Rowling got rejected 12 times before she finally published her "Harry Potter." Both of them failed but didn't relinquish. Had they feared their failures, we wouldn't have Facebook and Harry Potter today. There are tons of examples around us who failed, tried relentlessly, and then succeeded. The greatest successes come from having the freedom to fail.

I urge my student friends to learn new things regularly, engage with people with a positive attitude and be kind to yourself along the way. Seek support from peers you admire. Write down your goals and set smaller goals that are more realistic to accomplish. It doesn't matter how many times you failed but what matters, in the end, is how much knowledgeable and confident you become. If you fear and stop trying, the world might miss many creations and innovations. This will be an irrecoverable loss to society and posterity. I want you to try, fail, learn, and succeed. *It is hard to fail but it is worse never to have tried to succeed.*

"అపజయంబాలు విజయగేహంబు నిలుచు
స్తంభములు సుమ్ము నీకు విచారమేల
కొద్ది కొద్దిగ నిక్కిన గోడ వోలే
సగము సగములుగా పసుల్ ముగిసిపోవు"

-గుణ్ణం జాషువా

Prof. K. Hemachandra Reddy
Chairman, APSCHE



Meeting on **02.12.2022** regarding discussion on execution of courses at Universities with the German Association. The Vice Chancellor, Rector, DAP, DFAAM, & CEA Principal attended the meeting.



Pre-P.h.D. Examination at JNTU CEA
Date: **03.12.2022**



University pays Homage to Dr. B.R. Ambedkar on the occasion of his Death Anniversary Date: **06.12.2022**



Hon'ble Vice Chancellor addressing the final year B.Tech. students of JNTUA CEA regarding pursuing Higher Education in German Universities. Date: **06.12.2022**





Inauguration of Anantapur Engineering College Alumni Association (ANECOA) office



Inauguration of office for Anantapur Engineering College Alumni Association (ANECOA) by Hon'ble Vice Chancellor on 08.12.2022



The first meeting of ANECOA members in the new office at JNTUA CEA. Date: 08.12.2022



NIRF Review Meeting chaired by Hon'ble Vice Chancellor Date: 08.12.2022

Observance of Potti Sriramulu Vardhanti on 15.12.2022



Blood Donation Camp organized by NSS unit of JNTUA CEA in association with Red Cross Society Anantapur on 17.12.2022



Pre-Ph.D. Winter Session Examinations at JNTUA CEA Date: 17.12.2022

Orientation Program for Telugu Translators (Under AICTE Textbook Writing Scheme) by Directorate of Faculty Development, JNTUA



Orientation Program for Telugu Translators (Under AICTE Textbook Writing Scheme) was conducted by Directorate of Faculty Development, JNTUA on 21.12.2022. Dr. Dinesh Singh, Director ATAL FDP, AICTE, New Delhi; Prof. P. R. Bhanumurthy, Director, FDC, Co-ordinator Dr. K. Sesa Maheshwaramma, University Officials, Principal CEA Prof. P. Sujatha, teaching and non-teaching staff attended the program. Hon'ble Vice Chancellor attended the program as Special Chief Guest. Date: 21.12.2022



Interactive Session on “Assessment and Accreditation by NAAC” for JNTUA Affiliated Colleges organized by APSCHE and JNTUA on 22-12-2022 at JNTUA CEA.



An interactive session on Assessment and Accreditation by NAAC conducted for JNTUA constituent and affiliated colleges on 22.12.2022, The Program was addressed by the Prof. K. Rama Mohana Rao Vice Chairman, APSCHE. The Rector, Registrar, DIQAC, University Officials, Principals of Constituent and Affiliated colleges, IQAC Coordinator attended the program.



Felicitation of Prof. K. Rama Mohana Rao Vice Chairman APSCHE.

Date: 22.12.2022

IEEE PELS Technical Talk

“Power Electronics for Precision Farming with Substantiable and Cleaner Environment”

Organized by IEEE PES/IAS/PELS - Jt. Chapter in association with
IEEE Ananthapuramu Subsection, JNTUA IEEE Student Branch, GPREC IEE PELS SBC.

Venue: Prof. S. Tiruvengalam Memorial Seminar Hall, Department of Electrical Engineering, JNTUA CEA. on 22-12-2022.



A program titled “Power Electronics for Precision Farming with Substantiable and Cleaner Environment” conducted by IEEE ATP Subsection, JNTUA IEEE Student Branch on 22.12.2022. Hon’ble Vice Chancellor **Prof. G. Ranga Janardhana** attended as Chief Guest for the inaugural function. **Dr. Brij N Singh** Speaker, **M. Siva Kiran** CEO AIC SKU, & **Dr. Y. V. Siva Reddy** President IEEE Ananthapuramu Subsection, **Prof. R. Bhavani** Vice Principal JNTUA CEA, attended the program.





Research Review Meetings organized by Directorate of Research and Development JNTUA.
Date: 23.12.2022



Review Meetings on filling of NIRF Application chaired by Hon'ble Vice Chancellor Prof. G. Ranga Janardhana held on 27.12.2022 and 28.12.2022. Also seen is former Vice Chancellor of VTU Retd. Prof. K. Balaveera Reddy.

Contribution of Articles to the e - magazine

Tech Ananth

The members of the JNTUA fraternity all students, faculty and alumni are requested to contribute for publication in the monthly illustrated on-line e magazine 'Tech Ananth' of the University. The members can send submissions to the editorial team email id <emagazine@jntua.ac.in>. The members can send reports of important events along with photos, details of achievements such as awards, prestigious assignments and funded projects, success/inspirational stories of alumni, articles on science and technology which induce technical and scientific thinking. Also students members seeking career counselling in their respective fields can write to the same email id by including <career counselling request> in the subject-line of the email id. Senior Professors of the University shall answer to the counselling related questions which will be published. Members contributing articles shall give their full details such as Name, Designation, College, and Department with mobile number and email id for correspondence.

Editorial Team
magazine@jntua.ac.in

Tech Ananth

**JAWAHARLAL NEHRU TECHNOLOGICAL
UNIVERSITY ANANTAPUR**

www.jntua.ac.in

