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COVER STORY P4 ACADEMIC BANK OF CREDITS Ministry of Education, Government of India. (abc.gov.in)

Enabling students mobility across Higher Education Institutions 

Helps in seamless integration of skills and experiences into a Credit Based system

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COVER STORY

ETC- /Earn & Transfer your Credits /- Academic Bank of Credits -A Boon to Students.

--Dr. E. Keshava Reddy

"Academic Bank of Credits" (ABC)- An Overview:

he University Grants Commission (UGC), one of the statutory organizations, is a key player in maintaining the quality of education across Indian institutions.Right from evaluating teaching-learning practices to bringing innovations in the field of education, UGC introduces various schemes from time to time for quality assurance.

Continuing the chain of building transformative educational setup, UGC has introduced the "Academic Bank of Credits" (ABC). It helps faculty to manage & check the credits earned by students.

Academic Bank of Credits (ABC) is a virtual/digital storehouse that contains the information of the credits earned by individual students throughout their learning journey. It will enable students to open their accounts and give multiple options for entering and leaving colleges or universities. There will be "multiple exits" & "multiple entries" points during the higher education tenure & credits will be transferred through the ABC seamlessly.

ABC can be considered as an authentic reference to check the credit record of any student at any given point in time. Thus, the concept of ABC is fuel to boost the efficiency of faculty and help students embrace a multi-disciplinary educational approach. The idea is to make students "skillful professionals" and help their overall growth.

In a crux, the Academic Bank of Credits will be a game-changer in transforming Indian education to a great extent.

ABC - Objectives & Functionalities:

The ABC will be a national-level online facility established by the UGC with the approval of the Central Government. Its aim will be to promote flexibility of curriculum framework and interdisciplinary or multidisciplinary academic mobility of students across HEIs in India.

It will be established on the lines of the Na-

tional Academic Depository ("NAD") which stores a student's academic documents, and will have a website providing all details of the ABC scheme and its operational mechanism for the use of all stakeholders of higher education. It is proposed to function similar to a commercial bank with students as account-holders. The ABC will provide services such as credit accumulation, credit transfer, and credit redemption through the opening, closure and validation of academic bank accounts ("ABA").

Students who pursue education as freelancers can also accumulate credits which can be deposited to student accounts.

Upon collection of a degree, diploma or certif-

icate, these credits will be debited / deleted from the bank account. This will help a student to avail MEE options in HEIs, based on preference, convenience or necessity, and opt for a tailor-made degree and



flexi-learning models.

The ABC will act as the body empowered by the Central Government / UGC to provide authenticated records of credits earned by students from registered HEIs. Nevertheless, the Regulations clarify that the ABC will not encroach upon the statutory powers of HEIs to award degrees and other academic qualifications.

Objectives :

The primary objectives of the ABC and MEE system are inter alia to:

• promote student centricity with learner-friendly approach in higher education;

promote a more inter-disciplinary approach;

• enable students to select the best courses to suit their aptitude and quest for knowledge;

permit students to choose a pace and associat

ed logistics and costs for their studies;

• allow students to tailor their degrees or make specific specializations;

• enable MEE for students to complete their degrees as per their time preferences, providing mobility across various disciplines and HEIs for degree, diploma or certificate program or course work for the Ph.D. program;

• facilitate lifelong learning amongst all, including informal students;

• help students acquire the right foundations and building blocks to pursue their life goals;

• curtail dropouts and improve Gross Enrolment Ratio.

Functions of Academic Bank of Credit

• The Academic Bank will be accountable for opening, closing, and validating the academic accounts of students.

• It will carry out tasks such as credit accumulation, credit verification, credit transfer/redemption of students.

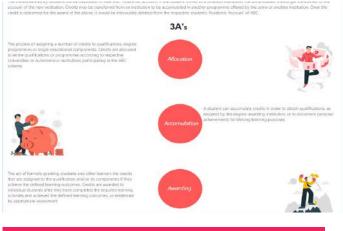
• The courses include online and distance mode courses offered by the government and institutes.

• The validity of these academic credits earned by students will be up to seven years and students can redeem these credits.

• The credits can be redeemed and students can seek admission directly in the second year at any university.

• The validity will be up to seven years; hence,

students will have to rejoin within seven years



Importance of Academic Bank of Credit (ABC)

• Increases the student's freedom in choosing their courses and academics.

• Enables the student to drop out in any year and then exchange the credits earned so far with a certificate/diploma if they are eligible.

• They can redeem the credits and rejoin the same or any other institute in the future and continue their education.

• The institutes cannot keep the students in the courses against their will to earn money

ABC – The Overall Implementation-In Detail:

1: Opening the ABC Account

First and foremost, the students need to open an Academic Bank Account.

They might require details like their name, address, certificates, course details, etc to create the ABC account.



A unique ID & password will be created from where students can log in at any given point to check their earned credits.

2: Credits Information as Per Courses

As per the courses, a credit structure will be created by the Coursement

the Government.

When a student pursues any course and clears

exams, credits will be automatically awarded to them. Institutions need to fill out the details and upload the deposits in the students' Academic Credit Bank's account on the digital portal.

3: Evaluation & Verification of Credits

Any kind of credit evaluation & verification will be carried out by the Academic Credit Bank at regular intervals.

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If students want to transfer the credits, they need to approach the ABC for further process.

It will help in regulating the processes with ultimate authenticity.

4: Types of Courses

Online & offline – both types of courses are included in the scheme. Some of the important ones include National Schemes such as–

- NPTEL
- SWAYAM
- V-LAB

Thus, the ABC will cover almost all types of courses including distance learning courses to help students of every possible stream.

5: Credit's Validity

The credits earned by students will be valid for seven years.

However, the validity of credits is subject to change depending on the type of courses or disciplines.

Expected Impact of ABC on Educational System:

In such instances, ABC will provide the details of the exceptions to students.

Even if a student takes a break or is not able to continue their education, they may redeem the earned credits in the future within the time limit of seven years.

The UGC expects a positive impact that will be brought via the practice of the ABC in the upcoming years. HEIs who participate in the scheme will be highly benefited due to the smooth management of credits.

The inter-disciplinary & multi-disciplinary approach is the need of the hour. With the Academic

ABC – Eligibility, Functioning & Expectations-Institutional Overview:

Credit Bank, HEIs will be able to help students learn subjects of their choice and become "skill-oriented" graduates.

• For further details, you may visit the UGC's official website.

• An Academic Bank of Credits will be set up where students can deposit, transfer and redeem credits earned through a variety of courses, including MOOCs

• Flexibility for students to experience diverse learning

• Students to have multiple entry and exit points in higher education, resulting in certificate, diploma, degree etc

• Synchronisation proposed for general and vocational / skill education

Continuing with the trend of fast-paced educational reforms, the University Grants Commission ("UGC") recently notified the UGC Establishment and Operation of Academic Bank of Credits in Higher Education) Regulations, 2021 ("Regulations")1. The Regulations inter alia provide for the establishment of an Academic Bank of Credits ("ABC") which will facilitate the recognition and transfer of credits earned by students, amongst various Higher Education Institutions ("HEI").

The aim of the Regulations is to enable students to "choose their own learning path to attain a Degree or Diploma or Post Graduate diploma or academic qualification, working on the principle of multiple entry-multiple exit ("MEE") as well as any-time, any-where, and any-level learning".

To supplement these Regulations, the UGC has also released guidelines on the implementation of MEE in Academic Programmes offered in HEIs ("Guidelines")².

The Regulations and Guidelines are revo-

lutionary in the context of how higher education in India has conventionally operated. The Regulations introduce learning flexibility and a system of earning and redeeming credits which, albeit prevalent in sev-

KEY HIGHLIGHTS OF THE REGULATIONS:

eral other countries evaded India



ual eligibility criteria for the ABC scheme wherein the HEI must fulfil at least one of the criteria in each column.

The Regulations apply to universities, institutions deemed-to-be-universities and autonomous colleges. In order for an HEI to be part of the ABC scheme, the ABC has to register such HEIs as per the Regulations and ensure that ABAs are opened and credits are verified and transferred.

Only such HEIs which fulfil the following criteria are eligible to be registered with the ABC under the Regulations:

• accredited by either National Assessment and Accreditation Council with minimum 'A' Grade or by National Board of Accreditation for at least three programme(s) with a minimum score of 675 individually;

• ranked in top 100 by the National Institutional Ranking Framework (NIRF) or a similar Assessment and Accreditation body to be established by the Indian Government from time to time;

• appearing in top 1000 world ranking of Quacquarelli Symonds (QS)/ Times Higher Education (THE);

• recognised as an Institution of Eminence; or

• recognised as an Institution of National Importance.

Additionally, the HEIs will be first required to obtain approval from their respective statutory authorities to apply for registration.

Therefore, there is a fairly strict eligibility criteria which has been prescribed, which will both (i) ensure that the quality of HEIs offering flexible credits and MEE options is high; and (ii) there is a further incentive for HEIs to be accredited or highly ranked.

Functioning of the ABC-Institutional Aspect:

When a registered HEI awards credits to students, the ABC will deposit the same in the individual Academic Bank Account ("ABA") of the student. The validity of the credits will be as per UGC guidelines and norms. The credits will be credited directly from the HEI, and the ABC is not permitted to accept any documents from students.

1.ABC to be inclusive of all courses

ABC is meant to be all-encompassing in terms of

types of education programmes. It includes all higher education programmes coming under the purview of

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the UGC, the All-India Council for Technical Education, and the National Council for Teacher Education. Courses undergone by the students through the online modes through National Schemes like SWAYAM, NPTEL, V-Lab etc. or of any specified university, shall also be considered for credit transfer and credit accumulation.

ABC is also meant to be inclusive for all types of modes, and would include various existing and futuristic teaching-learning models. It may also include credits obtained in assessments for theory or practicals, if the same are offered as separate credit courses. Further, credits obtained under skill courses from registered HEIs which offer vocational degree, diploma or certificate programmes are also eligible for accrual and redemption of credits through the ABC.

In addition to the choice-based courses to be undertaken by the student as a part of the specific higher education programme in the HEI, students can also take additional courses of their aptitude, beyond the curriculum prescribed for the degree programme, and accrue credits in their respective ABA. HEIs have been given the flexibility to recognize such credits, even though they were earned for courses which weren't part of the prescribed course curriculum.

HEIs can also take decisions with respect to the curriculum content, educational technologies to be used for the courses offered, course timing, continuous evaluation methods, attendance and novel methods of assessment.



2.Synchronisation of general education with vocational / skill training

The all-encompassing nature of the ABC scheme is furthered by the Guidelines which provide possible pathways for synchronisation for general education and vocational education. Given the demand of a skilled workforce in the economy, this is bound to provide a boost to vocational and skill training since the same can be combined with more conventional education. The Guidelines propose the following to achieve the end:

• Different qualification levels to be quality assured and include experiential learning • Recognition of prior / parallel learning as ploma. credits for formal certification

• National Skills Qualification Framework (NSQF) to be detailed further for each discipline, vocation and profession for syncing with general education

• Indian standards to be aligned with standards set by International Labour Organisation

• Introduction of vocational education classes from grade 9 in secondary education

• In higher education, skilling to be integrated with NSQF-aligned vocational courses and bachelor degree in vocational studies.

3.Exit and entry possibilities for students

The flexibility provided to students to earn credits is not absolute, however. Student must earn at least 50% of the credits from the HEI which will be awarding the degree / diploma / certificate. Further, a student must also earn the required number of credits in the core subject area necessary for the award of the degree / diploma / certificate, as specified by the HEI in which the student is enrolled. A detailed list of entry and exit options available to students has also been provided under the Guidelines, based on the various levels in higher education.

The registered HEI will have the authority to prescribe requirement of credits as well as essential components of study for award of any degree, diploma or certificate, or the course work requirements for the Ph.D. programmes.

Given that each individual HEI may prescribe its own requirements, it would be important to ensure that HEIs come together to decide on common factors and requirements. Otherwise, it would be difficult for students to ascertain HEIs where they can continue a specific course or redeem credits earned by them in a separate HEI.

4. Redemption of credits

Credits earned and deposited with ABC shall be valid for the purpose of redemption to a degree or diploma or post graduate diploma or certificate, depending on the extent of study completed by the student.

They need to be redeemed within the period specified by the credit awarding / credit accepting HEIs, but within a maximum time frame of 7 years.

Even credits earned by students beyond the

prescribed curriculum of their respective programme may be recognised towards grant of a certificate or di-

The redemption of credits will be one-time and irrevocable, and once redeemed, the credits cannot be used for an additional degree, diploma or certificate.

Expectations from registered HEIs:

1.Course requirements

Registered HEIs will be mandatorily required to admit students in individual courses, in addition to their full degree programmes. Further, HEIs will have the flexibility to offer a set of courses which are only for the purpose of the ABC scheme. Subject to the approval of any professional regulatory bodies, HEIs are also permitted to have additional / supernumerary seats for admitting students.

2.Amendments to ordinances / statutes

Since the ABC scheme will lead to a new form of recognition of credits and grant of degrees, diplomas, etc., registered HEIs have been empowered to amend their ordinances/statutes appropriately.

3.Fees

Registered HEIs have been given the flexibility to fix the course fee based on the number of credits of that course for which the student is enrolled.

My Account -
ition?
al Academic Depository (NAD)

4. Consequences of violation of Regulations

In case of non-compliance with the Regulations, the UGC is empowered to withdraw the registration of the HEI with the ABC and may also cease to provide grants to such HEI. The Regulations do not prescribe any further consequences of violation.

JNTUA- Implementation of ABC:

As JNTUA has already adopted the New Education Policy (NEP2020), we are happy to announce that this technological university has now implemented the Academic Bank of Credits (ABC) introduced by the Ministry of Education-GOI – successfully. Under this scheme every student of this university was instructed to register in the ABC portal and utilize this opportunity of credit transfer.



All the incoming students of the university will be now asked for their ABC credits if any and thereby they are assigned with the courses in which they haven't earned any credits so far, this benefits the students to a much greater extent as anticipated by the government.

An instance of a JNTUA's student ABC account interface was shown in the snap below:

Hello	ACADEMIC BANK OF CREDITS
A Dedeepya ! .*	ABC ID
— Total Academic Credits	International Control of the Contr

CONCLUSION

What was promised under the National Education Policy in 2020, has now been delievered by the Indian Government within a year of release of NEP. With these Regulations, the Government has truly broken the shackles of rigid course the Indian education system has been grappling with, which provided little room for any flexibility of experimentation in learning whatsoever.

The Regulations open up tremendous opportunities for the students to experience multi-disciplinary learning. For example, the Covid-19 pandemic saw the numerous challenges regarding vaccine development, right from their research and development, to logistics of delivery to challenges of overcoming regulations and vaccine reluctance. A pharmaceutical researcher, therefore, can possibly pursue certain courses in supply chain management, psychology, sociology and even law, in order to think holistically, and not a siloed manner. This can be done without having to invest considerable time, money and effort into each individual field of education. Student can now combine varied courses as part of their main

qualifying exam!

The fact that the Regulations encourage credits earned through different futurist modes of learning, as well as skill-based courses, theory or practical, adds the cherry on the cake as students don't have to depend on rote learning or a fixated method of study to earn credits.

The MEE options give students the flexibility to continue their learning journey over the years, and update their skill sets and qualifications based on credits accumulated by them.

The Regulations and Guidelines are new, but revolutionary in nature. It will be important for the UGC to popularise the concept of credit transfers. The UGC has already called upon HEIs to implement the ABC scheme at the earliest, so that students can benefit from this commendable move by the UGC.

While some HEIs have already registered for this scheme, it will also be important for more HEIs to register themselves so that students can actually take benefit for it. A concerted approach of HEIs for transfers, and award of credits may also be helpful for students seeking transfers or pursuing different courses from the ones offered by the registered HEIs.

All in all, the ABC scheme is a highly facilitative and enabling– both HEIs and students can explore hitherto unexplored options and combinations of subjects which would lead to a truly holistic learning experience.

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.

ENGINEERS ARE PROFOUNDLY CREATIVE

– Proved Again In Pandemic

--Dr.M.L.S.DevaKumar

f you are pursuing Engineering, If you are practicing Engineering, If you are professing Engineering YOU are profoundly performing creative activity.

You must gawp in to this article to appreciate the statement above. What is the prima-facie of ENGINEERING?

Engineering, is the creative application of "scientific principles to design or develop structures, machines, apparatus, or manufacturing processes, or works utilizing them singly or in combination" to give solution to existing problem or anticipated problem by the optimum conversion of the resources of nature to the uses of humankind.

Problem solving is common to all engineering fields. The problem may involve qualitativeor quantitativefactors; it may be economicor physical; it may require abstract mathematics or common sense. Of great importance is the process of creative synthesis or design, putting ideas together to create a new and optimum solution.

Although engineering problems vary in scope and complexity, the same general approach is applicable. First comes, an analysis of the situation and a preliminary decision on a plan of action. Inline with this plan, the problem is reduced to a more categorical question that can be clearly stated. The stated question is then answered by deductive reasoning from known principles or by creative synthesis, as in a new design. The answer or design is always checked for accuracy and adequacy. Finally, the results for the simplified problem are interpreted in terms of the original problem and reported in an appropriate form.

The major functions of all engineering branches are Research, Development, Design, Construction, Production, Operation and Management or other allied activities.

From Potter's wheel to Power Tools, chipping Chisel to Chip-set, Clip to Chat-bot name any advancement in the life of human being, in the name of technology, is the outcome of creative Engineering. Thomas Edison created electric light, Alexander Graham Bell created telephony, Ove Arup created the Sydney Opera House, Tim Berners-Lee created the world wide web. Whatever their background, they are Engineers who brought ideas to life.

Engineers are creative both as initiators and implementers of new ideas. Engineers invent new technologies, such as the telephone or the silicon chip, and they help to make other people's ideas work, such as structural and geotechnical engineers creating technical solutions to make an architect's design for a building stand up. The creative work of engineers is often hidden in the details of everyday life, invisible precisely because it works. Car braking systems, water treatment, gas turbines, micro controllers, software tools, mobile applications and mobile data networking, are just a few examples of continuous, creative innovation and improvement by engineers that keep us safe, drive the economy and support our modern lifestyles. Engineers are creative problem solvers. Many of the problems facing by society and engineering today are new and complex. Human-induced climate change was new to the world, complex in nature and leading to many challenges, never our society experienced. Phenomenally increased population is leading to major challenges of shortage and depleting resources of all kind, food, shelter, water, energy, health care, including data or network speeds. In a competitive global market, engineers must constantly innovate to create new solutions and invent new ways of solving problems. Engineers, who expect to provide the same, standard answers in an ever changing, complex world, will soon be out of work. Engineers have been highly successful in creating the complex technical systems that make modern life possible.



Life during the recent pandemic COVID-19,was exceedingly stressful for every human being. Many of us were stuck at home, separated from familiar social routines. The anxieties can seem endless, but several 'Engineers' are stepped up to the plate to take on our woes — creating new and amazing products designed to make our lives better (and safer) during the pandemic. Hope every one of us enjoyed using these products to keep ourselves safe and with life. Come on join me in recapitulating some of them.

Wide variety of items like Face Masks, Face Shields, Steaming devices, Isolation Kits, Hand gloves, Personal Protective Equipment (PPE) kits havedesigned, manufactured and supplied in the market. Each one is an example of Engineering Creativity.







No-Touch Thermometer, uses a hybrid of three different thermal readings to indicate a person's body temperature. Just by keeping the thermometer about an inch from a person's forehead, then press the measurement button. When the reading is complete, the temperature reading is displayed on the LED screen.

Touch-less soap / sanitizer dispenser, Combining touch-free tech

and sleek design, this soap pump is great for both the home and office. The pumping technology reacts to how closely your hand is placed to the dispenser. Hold it close for a little soap, or farther away for more. The simple two-button design handles both power and soap (or hand sanitizer) volume. Long-press to turn the dispenser on/off; when turned on, use short presses to adjust output. The leak-free casing means you won't have to worry about shorting out the device





and it will run on any brand of AAA batteries. Foot operated dispensers were manufactured at every town by local fabricators, with wide variety of designs.

Anti-Touch Multipurpose Tool, It may not look like much, but this keychain-sized door opener can open several different types of door or drawer handles and knobs, and can be conveniently used for several other purposes. Press elevator buttons, grip and flush toilet handles, and interact with and power on/off certain devices.



UV Light Sanitizer Wand, This portable disinfectant-wand is great for on-the-go sanitizing, thanks to a series of ultra-powerful UV-C LED lights. Can use it to disinfect your phone and other mobile tech, sofas, beds, and many other surfaces. To use, just unfold and scan the wand back-and-forth over the surface you're trying to disinfect. Shoot for five to 10 swipes at about an inch away. That's all there is to it. After about three minutes, the wand will power down (or you can press the scan button to manually end the cycle). The auto shut-off function will engage if the wand is accidentally turned over or re-folded during disinfection, and thanks to the built-in rechargeable battery, you won't have to worry about power when you're traveling.



Touch less Menu, Right now, it's crucial for re-opening businesses to minimize or eliminate touch-heavy items like physical menus. Fortunately, there's a product designed for just that purpose. Touchless Menu is a combination of hardware and software for both restaurant owners and their returning guests. How it all works is quite simple, but extremely effective, Itprovides restaurant owners with a pre-configured Wi-Fi router that connects to their existing network-gear. After restaurant owners upload their menu to servers, the router creates its own Wi-Fi network that guests can connect to with their mobile devices. When guests launch their web browsers, the menu will automatically be displayed on their device. Customer friendly search can be set for ease of use.

About the Author



Dr.M.L.S.Deva Kumar is a Professor of Mechanical Engineering at JNTUA. Presently he is serving as Secretary & CEO, Board for Community Development through Education, Govt. of AP, Amaravathi. He has received State Best NSS Programme coordinator award from Ministry of Youth Affairs and Sports, Govt. of India in 2016. He has received prestigious Indira Gandhi NSS (IGNSS) National Award from the President of India at Rashtrapathi Bhavan, New Delhi in 2016. He can be contacted at devakumar.mech@jntua.ac.in.



Ready to Work Dashboard, It can be tough to decide whether or not you should return to work, especially if your state is in the middle of a virus peak. Fortunately, the minds at Fitbit have designed a new application for employers and their workforces. Once the service is purchased and activated, employees can download the Ready for Work app on their mobile device. Each day, the app walks the employee through a check-list of symptoms, and also allows them to input temperature and heart-rate readings, as well as symptom tracking. Many of these readings are synced to the app from actual Fitbit devices, whether employer-provided or personally owned. Based on the employee's data, the app will then offer guidance on whether or not the employee should go into work that day. The app also offers various wellness services, such as positivity coaching and mobile co-op games for estranged office buddies.For business owners, the Ready for Work dashboard lets the employer know whether or not employees are willing to return to work, as well as monitor to see if there is any history of COVID-19 symptoms on their team.

So, 'Engineering' is a creative activity gives solution to existing problem or emerging challenge or anticipated problem by the optimum conversion of the resources available to make ease of life. Engineering will never cessations. Be Gratified as an Engineer. As an Engineer, Try to contribute something to provide solutions to the Community Challenges.

Diagnostic testing in a post-COVID world enabled by Microfluidic technologies IIChE Lecture Series VI

Indian Institute of Chemical Engineers-Hyderabad Regional Centre (IIChE -HRC)

In association with

Department of Chemical Engineering, JNTUACEA.

3rd JUNE, 2022 at 6:00 PM

About IIChE-HRC

The Indian Institute of Chemical Engineers with its head office at Kolkata and its 33 Regional Centres spread throughout the country holds national and international seminars, workshops and meetings so that its members can learn, understand and interact among themselves.

Some of the goals of the Institute are

- To promote the advancement of chemical engineering science
- To maintain professional standards among its members

Further, it serves as authoritative body on matters concerning the teaching and profession of chemical engineering and also publishes journals. The institute conducts examinations grants, awards donations, scholarships and certificates to such persons as may be deemed fit. The Hyderabad Regional Centre with its office at Amrutha Estates, Himayat Nagar has involved in may activities such as organizing seminars and lectures, conducting industrial tours etc. it has successfully conducted the 23rd and 39th Annual Indian Chemical Engineering congress in the years 1970 and 1986 respectively.

About Speaker

Dr. Dhananjaya Dendukuri is Chief Executive

Officer & Co-Founder of Achira Labs, a pioneering point-of-care technology company based out of Bangalore. Dhananjaya returned to India with his passion for engineering and belief that technology development for underserved markets must be done locally. Starting from his early career experience as a lab scientist and R&D manager (with over 30 publications and 7 issued patents), he now has more than a decade of experience with the fund-raising, commercial, operational and regulatory aspects of building and taking diagnostic technologies to market. He has received the National Technology Award for new technologies (biotechnology) in 2016 and MIT Technology Review's prestigious TR35 awards in India for the work that was being done at Achira. Dhananjaya serves on the jury of the Infosys Prize and the X-prize for diagnostics. He received his PhD in Chemical Engineering from MIT, a MASC in Chemical Engineering from the University of Toronto and a B. Tech in Chemical Engineering from the Indian Institute of Technology, Madras.

About Event:

Event was on 3rd June, 2022. The whole event was hosted by Ms. G. Neha Mallika, Assistant Professor (Ad-hoc), Department of Chemical Engineering, JNTUACEA. Firstly, she welcomed all to the event and specially (cordially) invited the speaker, guests, organizing committee, student chapter, faculty and students. As per our Indian tradition, next follower by prayer song by Ms. Jahnavi, B. Tech Chemical Student, JNTUACEA. Next, Welcome addressed by Dr. Sanjay Bhardwaj, Chairman, IIChE-HRC. Then Remarks by Dr. B. Dilip Kumar, Associate Professor and Head of the Department of Chemical Engineering, JNTUACEA. A briefly introduction about speaker (Dr. Dhananjaya Dendukuri) by Mrs. D. Sowjanya, Assistant Professor (Ad-hoc), Department of Chemical Engineering, JNTUACEA. Then a virtual address by the keynote speaker of the event Dr. Dhananjaya Dendukuri, Co-Founder & Chief Executive, Officer of Achira Labs, a pioneering point-of-care technology company, Bangalore. Then Question & Answer session. After that session guest of honor, Prof. S. V. Satyanarayana Principal JNTU Kalikiri, was interacted with Dr. Dhananjaya Dendukuri. Followed by Vote of Thanks by Dr. P Uma Maheswari, Assistant Professor (Ad-hoc), Department of Chemical Engineering, JNTUACEA. At last session was closed by National Anthem song played by Mr. A. Rajasekhar Babu Assistant Professor (Ad-hoc), Department of Chemical Engineering, JNTUACEA.

About lecture:

The main motto of this lecture series is to learn and understand the concept on microfluidic technologies. Microfluidic is a set of technologies or tools that can be used to manipulate fluids at a sub-millimeter level roughly the thickness of a human hair. The Fist platform of Achira is the lab-on-chip, which consists of a microfluidics chip and a reader. The new platform

allows samples of blood, urine, saliva, or other body fluids to be loaded directly on a plastic microfluidic chip and tested for presence of multiple analytes in a few minutes. The idea is to remove testing from a centralized paradigm and move it to the doctor's office. The sample, along with the buffer, would be loaded on the chip by a technician, which would then be fed into the reader. The microfluidic chip, which is smaller than a credit card, would have channels etched on them, through which the sample will flow. Along the channels, there are minute amounts of reagents which will react with the sample and, through fluorescence-based detection, give us has a very high sensitivity. The miniaturized assays allow for reduction in the volumes of expensive reagents used and hence their cost. Microfluidic is platform which can be used very easily at homes for COVID test by keeping our fingers on some testing tools. Post -Covid world is seeing a big shift to POC(home, Dr-office, small-lab) testing and cost reduction and it integratedly brings multiple functionalities like cell separation, mixing and readout on the one cartidge. The blood that runs through the veins, arteries, and capillaries is known as whole blood, a mixture of about 55 percent plasma and 45 percent blood cells. About 7 to 8 percent of your total body weight is blood. The liquid component of blood is called plasma, a mixture of water, sugar, fat, protein, and salts. The main job of the plasma is to transport blood cells throughout your body along with nutrients, waste products, antibodies, clotting proteins, chemical messengers such as hormones, and proteins that help maintain the body's fluid balance. Use of diverse materials for microfluidics chips such as polymers (e.g. PDMS), ceramics (e.g. glass), semiconductors (e.g. silicon) and metal is currently possible because of the development of specific processes: deposition and electro-deposition, etching, bonding, injection molding, embossing and soft lithography (especially with PDMS), then CNC micro milling and printing and weaving.

Achira has developed ACIX200 - an automated, multiplexed, plug-and-play platform capable of matching clinical lab gold standards. ACIX is a microfluidics-based platform that combines a plastic disposable cartridge containing dry reagents and a portable reader. Currently, a menu of tests covering hormones - Thyroid-stimulating hormone (TSH), triiodothyronine (T3), Thyroxine (T4), Beta Human chorionic gonadotropin (b-hCG), Follicle Stimulating Hormone (FSH), luteinizing hormone (LH) and Prolactin (PRL) is under development. More test panels are in the pipeline under development, including cytokine assays and infectious diseases panels. multiplexed set of 4 important fertility-linked tests, beta-human chorionic gonadotropin (β -hCG), follicle stimulating hormone (FSH), luteinizing hormone (LH) and prolactin (PRL), that are commonly required at gynecology/IVF settings were developed and validated using discarded clinical samples. Detailed data on accuracy, precision, linearity, effects of interference and cross-reactivity have been studied, rendering the platform ready for clinical use.

In 2014, Theranos, a blood-testing startup pitching a supposedly revolutionary technology, was flying high. While existing technology required one vial of blood for each diagnostic test conducted, Theranos claimed to be able to perform hundreds of tests (supposedly over 240) ranging from cholesterol levels to complex genetic analysis, with just a single pinprick of blood. Automated, fast and inexpensive, Theranos seemed to be offering technology that could revolutionize medicine and save lives the world over.



New microfluidics-based immunoassay platform

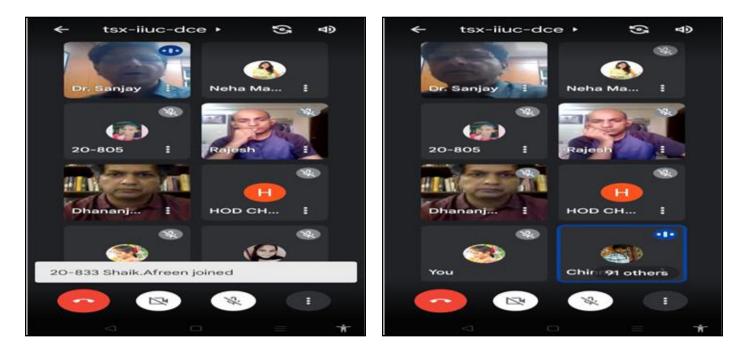
based on 3D porous hydrogel particle sensors with planar rectangular geometries. Large numbers of sensors are made off-chip before being embedded into an injection molded microfluidic chip. This allows for both multiplexing and scalability of manufacturing processes. A specially designed adapter containing detection reagents and buffers is interfaced with a microfluidic chip allowing for an automated immunoassay to be performed. All antibody reagents required for the test are stored in a dried form on the chip, enabling stability for resource-limited settings. Fluorescence-based immunoassays are performed by a sequential flow of the sample, detection reagents and wash buffer over the sensors. A compact instrument that integrates microfluidic flow dispensing and pumping with highly sensitive array-based detection is used to conduct and read the assay.

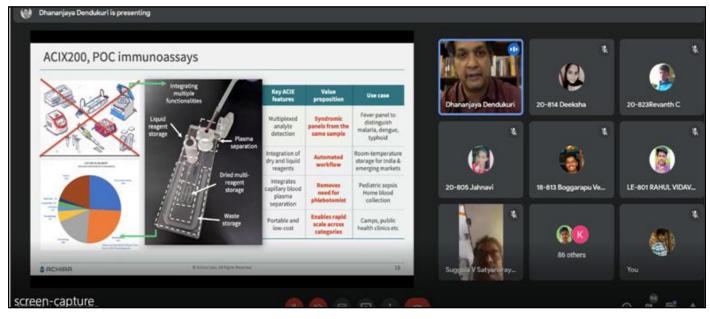
Some important trends going forward are as follows

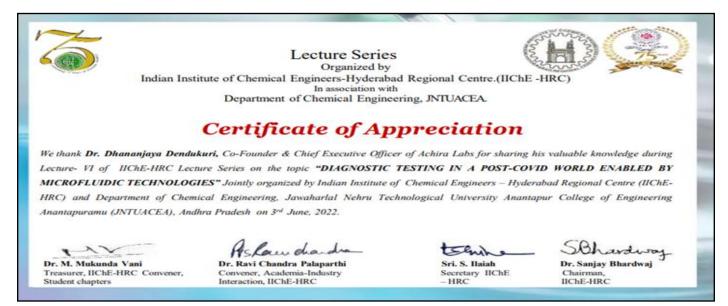
- Wearable/implantable sensors
- Machine learning
- Crows sourcing and population data in real time
- Early Predictive markers for
 - Cancer
 - Mental health (Alzheimers, Parkinsons)

IIChE Lecture Series VI

Event Gallery







15



AICTE - JNTUA Sponsored Two Week Short Term Training Programme

on

Computer Hardware and Networking



and

Office Procedures 13-06-2022 to 25-06-2022

for Non-Teaching Staff organised by

Faculty Development Center, JNTUA Anantapuramu.





Traditional Lighting of Lamp, followed by prayer marking the inauguration of the Training Programme Prof. C. Sashidhar Registrar, Prof. M. Vijaya Kumar Rector and Prof. P.R. Bhanumurthy Director FDC seen in the picture on 13-06-2022



Teaching and Non-Teaching Staff seen during the inauguration.



Participants from Non Teaching Staff seen during the training session.



Group photograph of participants along with organizers and University officials during Validictory function on 25-06-2022 at JNTUA CEA.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR IN ASSOCIATION WITH ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

MICROSOFT CORPORATION INDIA MICROSOFT UPSKILLING PROGRAMS FOR FACULTY 20-22 JUNE 2022





Traditional Lighting of the lamp by Prof. Hemachandra Reddy Chairman APSCHE and Prof. G. Ranga Janardhana marking inauguration



Dignitarities on the dias standing for the prayer



Prof.V. Sumalatha welcoming the invitees and introducing the programme





Teaching staff and participants attending the inauguration



20.06.2022 - Day 01 - Training in Microsoft Azure Fundamentals - Total participants 153 -Group photo along with the trainers from Microsoft India.



21.06.2022 - Day 02 - Training in Microsoft Azure AI Fundamentals - Total participants 107 -Group photo along with the trainers from Microsoft India.



22.06.2022 - Day 03 - Training in Microsoft Security Compliance and Identity Fundamentals -Total participants 98 - Group photo along with the trainers from Microsoft India.

C-ELIT2K22 2 - 3 June 2022 Department of Computer Science and Engineering JNTUA College of Engineering Kalikiri, Annamayya District, AP.

National Level Student's Technical Symposium, organized by the Department of Computer Science and Engineering, JNTUACE, Kalikiri on 2nd and 03rdof June 2022.

The aim of holding this symposium is to fos-

ter the creation and dissemination of rapidly growing knowledge for better learning in areas of Computer Science and Engineering. This Symposium provides



an opportunity to review the current status and future trends in Computer Science and suggests viable ways in adopting the latest developments. This symposiumencourages the students to present their views, ideas and exhibits their talents by participating in various technical events like project-expo,blind coding, coding and debugging, paper presentation, technical quiz etc. By this Symposium, we intend to bring out the emerging trends in Computer Science and Engineering stream.

As a part of this Symposium various technical events, non-technical events and workshopsare conducted. Around 200 Students are participated in variousevents. A two day workshop on Data Science and atwo day workshop on Cyber Security are organized. These workshops focused mainly to provide hands on experience on usage of Cyber Security tools and Data Science software.

The resource person teamof Cyber Security introduced the concepts of Cyber security principles, malware analysis, email and social media security. The Data science team introduced data science in python, analyzing a dataset, data preparation, classification and cluster analysis, the generalization of Machine Learning Models.



M-BLITZ 2K22 Department of Mechanical Engineering National Level Technical Symposium on 8th and 9th June 2022 JNTUA College of Engineering Kalikiri, Annamayya District, AP.

epartment of Mechanical Engineering, JNTUA College of Engineering Kalikiri has organized a National Level Technical Symposium M-BLITZ 2K22 on 8th and 9th June 2022 with various Technical and Non-Technical events like paper presentation, project expo, technical quiz



Two Workshops also organized in this fest one on Automobile Mechanics and another on Web Development with experienced persons in this field.

This program was inaugurated by honorable vice chancellor of JNTUA Prof. G Rangajanardhana



and key note speaker Prof. N. N. Kishore Dept. of Mechanical Engineering at IIT Tirupati and former Professor of IIT Kanpur. The program is presided by Prof S.V. Satyanarayana, Principal, JNTUACEK. The convenor of the Prof V. Naga Prasad Naidu Head, Mechanical Engineering Department. Vice Principal Prof C. Subhash also present during the inauguration.

While addressing the students honorable vice chancellor of JNTUA Prof. G Rangajanardhana informed that, the technical fest helps the students to aware of latest technologies and to develop their knowledge in this field. It also helps to exchange their

ideas and interact with other college student. It helps to develop organizing skills.

Key note speaker Prof. N. N. Kishore explained the importance and benefits of Finite element



methods (FEM). He said that the FEM is a powerful design tool used in standard engineering design and methodology of the design process in many industrial applications.



Nearly 500 students from various engineering colleges are participated in this fest.

Merit certificates and participation certificates are presented to the participants by Honorable vice chancellor of JNTUA Prof. G Rangajanardhana, principal Prof. S. V Satynarayana, vice principal Prof. C. Subhas and Prof. V Nagaprasad Naidu.



SPORTS DAY REPORT 16th June 2022

JNTUA College of Engineering Kalikiri, Annamayya District, AP.

he annual sports day was celebrated at JNTU Kalikiri on June 16th, 2022 with great enthusiasm. On the day, the college campus was decorated with colorful lamps. A big stage was decked up at the Ground. Some of the Students permitted are permitted to open the food stalls at the venue and the provided the varities of quality food. Many students enjoyed the food.Principal S.V. Satyanarayana lauded the sports spirit of the students. The principal of the college Prof. S.V. Satyanarayana presided over the function.

Guest of honour JNTU Anantapur Registrar Prof. C. Sasidhar, chief guest Annamayya District Superintendent of police V. Harsha vadhan Raju, Vice Principal C. Subash were present.

Sports day began with student anchoring and classical dance. Computer science Head Shaik Naseera invited the guest on to the dais. Principal S.V. Satyanarayana addressed the gathering, emphasized the importance of sports day.

Vice Principal Prof. C. Subash elaborated the importance of education, sports. He stated that sports instills values and healthy positive life.

Registrar Prof. C. Sasidhar exhorted the students to prove themselves in all arenas. He stressed the importance of Team work. He briefed about the role of alumini in the development of institution particularly mentioning about the Chief guest who is alumini of JNTUA College of Engineering Anantapuramu.

Chief Guest V. Harsha Vardhan Raju's speech enthralled the audience. He spoke about the importance of sports. Sports mend your life and appealed to the students to cultivate good hobbies.He lauded the sports spirit of the students.

The chief guest, Guest of honour thanked the authorities for inviting them to shorts day and distributed the prizes to the winners. Principal, Vice principal and other head of the departments distributed the prizes to the faculty and non-teaching staff who are actively participated in the various games and won the prizes.

At last, thanking all, the principal ended the ceremony.



News from JNTUA CE Kalikiri



On Sports Day 16/06/2022 Students received the prizes from the hands of Vice principal and Principal.



Students wear Jubiliant and radiant smiles on their faces for their success and received the prizes from the hands of Principal, civil head and cse head. Principal congratulated the champions.





Glorious moment : On this occasion Principal S.V. Satyanarayana presented a momento to Champion. Dr. D. Neeraja, Prof. C. Subhas, Dr. Shaik Naseera and student coordinator on theDais.



Proud Moment: Teachers Victory moments in various sports activities. Principal with the Teachers on the dais and congratulated the champions on sports day.



Memorable cherished moment : Principal Dr. S.V. Satyanarayana conferred prizes on women teachers on sports day occasion.



Cherished Moment : Dr. N. Zafrunnisha, Dr. K. Aparna placement officer and Dr. N. Saritha gave away prizes to winners.



Snap shot with Non teaching staff winners : Dr. M. Naga Prasad Naidu, Dr. K. Venkateswara rao, Principal Dr. S.V. Satyanarayana, Dr. K. Aparna, Dr. N. Saritha and Dr. Jaffarunisha from Left to Right.

COLLEGE DAY REPORT 17th June 2022 JNTUA College of Engineering Kalikiri, Annamayya District, AP.

he JNTU College of Engineering Kalikiri organized the College day on on 17th June, 2022 after gap of three years in the college ground, at 6.30 p.m. Principal S.V. Satyanarayana presided over the function Chief guest of the day is Vice Chancellor of JNTUA Prof G. RangaJanardhana and the guest of honor is Sri Charndrasekhar Srinivasan, Vice president and Delivery Head- Travel and Public Sector, Mphasis Limited, Chennai.

Vice Principal Prof. C. Subhas presented welcome address, emphasized knowledge, skills are part and parcel of Academics, exhorted the students to develop soft skills and congratulated the top rankers in academics.

Chandra Sekhar Srinivasan encouraged the collaborative learning, Technological innovations



JNTUA Vice chancellor Prof. Ranga janardhana addressed the students on College day on June 17th,2022 at JNTUA Kalikiri.

in his speech and briefed about the role and responsibilities of software engineers in the industry.

Vice chancellor Ranga Janardhana enthused the students with his valuable words of hard work, dedication, role of technology and appealed to the students to extend their services to the poor people. Service to humanity is service to god. Students should brighten up their career with innovative ideas.

Principal S.V. Satyanarayana delivered elaborative speech on this occasion activities of the college for the past one year Dignitaries on the dais distributed the prizes and congratulated the winners. The day was ended with cultural programmes. All the heads of the departments, faculty, non-teaching staff and Students are actively participated in the program. Students enthralled the audience with their talent in various cultural events.





On College day celebrations Dignitaries sat on the dais. Vice Principal Prof. C. Subhas, Chief Guest , Vice chancellor Ranga Janardhana, S.V. Satyanarayana, and student co ordinator in line from left to right.

Charismatic Vice Chancellor speech : His spell bounding speech combined with innovative thoughts enlightened the student, teaching community and non teaching staff.



On JNTUA CE Kalikiri College day occasion Principal S.V. Satyanarayna addressing the students. He instilled confidence among the students through his speech.



On this occasion , Vice Chancellor presented prize to the winner. Vice principal, chief guest, VC and Principal took part.

On this College day event Vice chancellor Prof. G. Ranga Janardhana presented certificate to the Winner.





Principal S.V. Satyanarayana presented Momento to Cricket team winners.

Tomorrow Heros and Heroines (Winners) shared their snap shot with Eminent scholars Prof. C. Subhas, Vice Principal, Guest of Honor Chandrasekhar Srinivasan, JNTUA Vice Chancellor Prof. G. Ranga Janardhana and Principal Dr. S.V. Satyanarayana on College day.



Alumni Meet Department of Mechanical Engineering 18th June 2022

JNTUA College of Engineering Kalikiri, Annamayya District, AP.



epartment of Mechanical Engineering has organized first alumni meet on 18th June 2022.Nearly 50 students attended directly and 50 more students attended through online.

The chief guest this program Prof. S. V Satyanarayana principal JNTUACE Kalikiri, appreciated all participants and informed to strengthen alumni association of JNTUACEK. He suggested alumni to adopt at least one existing student to guide and help for their bright future. Vice principal Prof. C. Subhas suggested the alumni to visit college frequently and motivate students by interaction.

Convertor of this meet Prof. V Naga Prasad Naidu suggested alumni to share information about the technology on which they are working and to make existing students industry ready.



ADITYA COLLEGE OF ENGINEERING, MADANAPALLE

NEWS FROM COLLEGES





On the occasion of "World Environment Day" on 5th June, NSS unit has organized Tree Plantation Programme in the college campus.

On the occasion of "International Yoga Day" on 21st June, Yoga session was conducted for the students in the auditorium.



Department of CSE organized Tech Fest "ANOKHA-2K22" on 15th June'22. The chief guest Dr. A.P.Siva Kumar, Associate Professor in Dept.of CSE, JNTUA, Anantapuramu has appreciated the participants of paper presentation, poster presentation and project expo.



Department of ECE has organized Tech Fest "PRAGNOTSAV-2K22" on 3rd & 4th June'22. The keynote speaker Dr.D.Vishnu Vardhan, Associate Professor & HOD of ECE, JNTUA, Anantapuramu delivered a talk on "Importance of embedded systems in various fields".

ADITYA COLLEGE OF ENGINEERING, MADANAPALLE

NEWS FROM COLLEGES



Department of ME has organized one day visit to APSRTC garage at Madanapalle on 7th June 22 for II ME students.



A webinar on "E-encephalogram Analysis and Brain Computer Interface Concepts" was organized by Department of ECE on 24th June 22. The resource person Dr. Ramasubba Reddy, Professor, IIT Madras has addressed III B.Tech students.



The Annual Day Celebrations of ACE FIESTA-2K22 was organized on 11th June. The chief guest Mr. S. Ramesh, an expert from Telecom Industry, Bangalore addressed the gathering.

Sree Vidyanikethan Engineering College, Tirupati.

The Faculty and Students of Sree Vidyanikethan Engineering College

have made remarkable achievements during June, 2022

- Dr. N Padmaja, Professor of ECE has received International Innovative Educator Award for accomplishments related to research & innovations during 2020-21 from International Institute of organized Research (120R) (Registered under MSME, GOI) on 25 June 2022
- C Sushma, Research Scholar under the guidance of Dr. N Padmaja Received Fellowship for Research of Rs.34462/- p.m for 5 years under UGC JRF NET Scheme
- Dr. A. Yasmine Begum, received Certification of appreciation for acting as programme member & Reviewer in the 2022 IEEE World Conference on Applied Intelligence & Computing (AIC-2022) held during 17-19 June, 2022.
- Dr. D. Ganesh, Associate Professor, Dept. of CSE has received Young Achiever award 2022 by InSc Institute of Scholars, recognized by govt. of India.
- Dr. D. Ganesh, Associate Professor, Dept. of CSE has received Best Paper Award in Third International Conference on "Materials, Computing & Communication Technologies" ICMCCT 2022.

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

R.G.M. COLLEGEOF ENGINEERING & TECHNOLOGY (AUTONOMOUS)



NEWS FROM COLLEGES

June-2022 Monthly Report for e-magazine

epartment of Mechanical Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, A.P. in association with MHRD's Innovation Cell – Institute Innovation Council (MIC-IIC), Entrepreneurship Development Cell (EDC) & Indian Society of Heating, Refrigeration and Air Conditioning Engineers (ISHRAE) Bhubaneswar Sub-Chapter, Odisha. Organized oneday seminar on "How to plan for start-up: legal & ethical steps". The event was successfully conducted with a more than 60 students from the Nandyal, Dr. D. Abhishek, program chair ISHRAE BBS sub chapter & Ms. N. FouziaSulthana Institute Innovation activity coordinator & Dr. V. Siva Reddy, the resource person for the day, addressed the gathering.



Dr.V.Siva Reddy addressing the students on 14.06.2022.

orld Environment Day was celebrated by NSS unit-1 and unit-2 of RGMCET in association with Department of Chemistry on 05-06-2022.Under this programme Tree Plantation Drive was organized and 100 plants were planted in the college premises. The No. of NSS Volunteers Participated in this camp were 50.



Dr.D.V.Ashok Kumar, Dr. A. Balakrishna, Dr M. Sudheer Kumar, Dr. N.V. Satya Prakash and NSS student volunteers planting trees on world's environment day on 5th June 2022.

R.G.M. COLLEGEOF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

NEWS FROM COLLEGES

n awareness Program on SAVE-SOIL was Conducted by NSS unit-1 and unit-2 of RGMCET in association with Isha Foundation, Coimbatore on 10-06-2022. The No. of Students Participated in this .Programme were 200



Nagarjuna Reddy, Member of Isha foundation addressing the students on 10.06.2022.



Students participating Save –Soil Program on 10.06.2022

nternational Day for Yoga day was celebrated by NSS Unit-1 and Unit-2 of RGMCET on 21-06-2022.Under this Programme Orientation Programme on "YOGA-IT's BENEFITS TO MANKIND" was organized to the Students. The No. Of Students Participated in this Programme were 60.



Mr.M.Nageswar Rao, Yoga master and the students participating on 21.06.2022.

wo Field Trips organized for EEE students on "Field Visit of Solar Rooftop Power Plant at RGMCET" on 15th June for II- Govt. Polytechnic. and on 20th June for III-Govt. Polytechnic EEE students.
Dr.D.Lenine and Mr.J.Nagarjuna Reddy were the Faculty Co-coordinators.



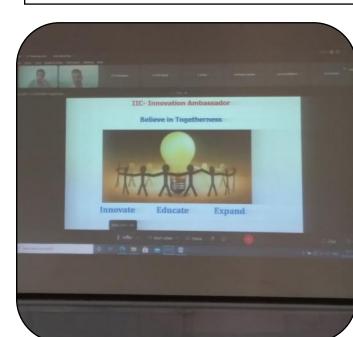
Dr. Lenin and Mr.J.Nagarjuna Reddyexplaining the II year students of Govt.Polytechnic, Nandyal about the Solar Energy on 15.06.2022.



Dr. Lenin and Mr.J.Nagarjuna Reddy explaining the III year students of Govt. Polytechnic, Nandyal about the Solar Energy on 20.06.2022

nstitute Innovation Council cell of Seven Hills College of Pharmacy (Autonomous), Tirupati in association with IIC Cell, Center for Innovation, Incubation & Entrepreneurship (CIIE) Koneru Lakshmaiah Education Foundation (KLEF) has initiated AICTE Mentor Mentee Program IIC Activity Session 'How to plan for a Startup and legal & ethical steps' on 04th June 2022, 11.00 A.M to 12.30 P.M.

Mr. Amit Sanjay Lokhande, Innovator & Entrepreneur, Founder- Amkron Technologies Pvt. Ltd. Nominated IIC Innovation Ambassador, MoE Innovation Cell, Govt. of India has delivered strategies for developing a startup and challenges to be handled during establishment.









Welcome to AICTE Mentor Mentee Program

IIC Activity Session 'How to plan for a Startup and legal & ethical steps' 04th June 2022, 11.00 A.M to 12.30 P.M

DADI In

Host: IIC Cell, Center for Innovation, Incubation & Entrepreneurship (CIIE) Koneru Lakshmaiah Education Foundation (KLEF)

Mr. Amit Sanjay Lokhande, Innovator I Entrepreneur Founder- Amkron Technologies Pvt. Ltd.

Eze

Vominated IIC Innovation Ambassador, MoE Innovation Cell, Govt. of India

O ITY STARTUP

3 SASI

SS unit of Seven Hills College of Pharmacy (Autonomous), Tirupati in association with SVS charitable trust, Tirupati had organized Blood Donation Camp on the occasion of World Blood Donor Day, June 14th 2022. The student's voluntary of all years B.Pharmacy, Pharm D and M.Pharmacy have taken active participation. The activity of blood donation was executed by a group of 15 team members of NSS unit and the 03 Staff members posted in the blood bank of the institute. Each donor was taken care of by looking after any post-donation weakness or nausea plus was also provided with refreshments. All together about 70 healthy volunteers donated blood and all the donors would voluntarily







The 8th edition of International Yoga Day to be celebrated on June 21, 2022 was guided by the theme of yoga for humanity. Choosing right yoga asanas and practicing them with awareness during post COVID-19 recovery period helps to build immunity with relaxed body and mind for faster healing. The day started by laying a huge pranams to the delegates joined for International Day of Yoga-2022 which was grandly inaugurated by our principal Dr. M. Niranjan Babu with a great applauds from all our faculty members. The Chief guest (Shri. Prathap Swamiji, Founder,

NEWS FROM COLLEGES

kaveera Seva Foundation, Tirupati) highlighted the importance of changes in life style for the well being of humanity and noted the importance of practicing Yoga in daily life. Resource person Mr. Pulluru Kumara Swami, Patanjali (Yoga Sikshak) Tirupati deliberated an excellent insight on Yoga for Humanity and its importance in the livelihood of every individual. The programme further navigated to Yoga mudhra's and Meditation at various levels. The Yoga Sikshak given us the instructions to follow for meditation after suryasana and various mudra like Pranayamam, Kapalabhati and Anuloma and Viloma was done and this body and mind relaxation made us to experience the power of Yoga in well-being of us.









On behalf of Management, SHCP has felicitated the GPAT qualified students of B.Pharmacy IV Year students for the year 2022

- 1. B.Bhargava Reddy rank 2428
- 2. M.Kavitha Rank 3133

3. P.Jayasri devi – rank 4077 (NIPER qualified – rank 282)



HCP Under the aegis of IQAC and in association with Department of Pharmacology has organized One Day National Seminar on "Nutrition & Wellness" with an objective of the seminar is focused to bridge the gap between health and nutrition among students and staff of Seven Hills College of Pharmacy. Also to highlighted the significance of wellness in the current scenario of physical and mental illness.

Mr. GSS. Revanth, Co-Founder CEO Beats Fitness & Wellness Pvt. Ltd. Business Coach & Wellness Consultant, The World of Wellness, Certified in Nutrition, NHI (CA) Fitness Physiologist, (Australian Council of Exercise). The Key note speaker Mr. GSS Revanth hand-

ed over the session and led the gathering with his enormous knowledge on "how to be wealthy with the health". He advised students with routine style of habits to be followed for healthy life. He also signified about the role of good and bad fats, macro and micronutrients, vitamins, minerals, carbohydrates, physical activity, mental fitness etc., He also did one to one interactions with the students as well as staff and clarified their doubts. A number of 426 participants were actively involved in this programme.



NEWS FROM COLLEGES

SEVEN HILLS COLLEGE OF PHARMACY (AUTONOMOUS) TIRUPATI.

even Hills College of Pharmacy (Autonomous), Tirupati in association with private Pharmacy College managements association had organized workshop on "Pharmacy Education & Research: Prospects & Perspectives", Role of PCI and Institutions on 26.06.2022 at Sri Padmavati Mahila Visvavidyalayam, Tirupati.

Dr.Montu M. Patel, President, PCI, New Delhi was invited as Chief Guest for the Workshop. Prof.D.Mamatha, registrar, SPMVV, Tirupati was invited as Special guest and Dr.M.Niranjan Babu, Principal, SHCP was invited as Convener of the programme.



he International Day against Drug Abuse and Illicit Trafficking, or World Drug Day, is marked on 26 June every year to strengthen action and cooperation in achieving a world free of drug abuse.

Drug abuse is the use of drug in amounts or by methods which are harmful to the individual or others. It is a form of substance related disorder in some cases, criminal or anti-social behaviour occurs when the person is under the influence of a drug and long term personality changes by individuals may occur. In addition to possible physical, social and psychological harm, the use of some drugs may also lead to criminal penalties, although these vary widely depending on the local juridication.

SHCP had organized different programme was conducted like quiz, painting (Helping hands for substance De addiction) and chart model (Substance abuse-Impact on Human body).

NEWS FROM COLLEGES

Instructions to conduct the activities Quiz:Timings: 10 AM to 11 AM

- Each team consists of 5 members
- ► 3 Rounds
- The question will be based on Theme of the day, log ical questions and General Knowledge
- Moderator decision will be Final.

Chart Presentations- Substance Abuse-Effect on Human Organs- Timings 11 Am to 12 PM

- ► Charts must be pre-prepared and in Full Size chart
- > 2 Participants can be participated
- Charts must be placed in the given place in stipu lated time
- Evaluator Decision will be final Painting Competitions:

Helping Hands for De-addiction

- The time for painting is one hour
- All the essentials for the painting have to brought by own
- Any layouts or rough diagrams on paper or strictly prohibited prior to the competition
- Evaluator decision will be final















DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING EVENT ORGANIZED IN THE MONTH OF JUNE- 2022

S.NO	NAME OF THE EVENT	DATE& TIME	RESOURCE PERSON	NO. OF ATTEN DEES
1	Talk to Alumni	11.06.2022 at 10.00 AM	Mr.N.Leelavinoth Cyber Security Senior software Engineer, INFOSYS,Bangalore	108
2	Guest lecturer on Introduction to FOG Computing	16.06.2022 at 3.00 PM	P.Karthikeyan AssitantProfrssor, VIT, Vellore	85
3	Workshop on Animation Design	20.06.2022 to 25.06.2022 at 9.30 AM to 4.00 PM.	Mr .K.ChandraSekhar APITA Animation Design Trainer	128
4	Webinar on Application of Python Programming	28.06.2022 at 1.30 PM	Mr.S.Suresh Picosoft Solutions Pvt Ltd Chennai	125

Talk to Alumni held on 11.06.2022 at 10.00 AM.

Participated Students	: III year Students
Venue	: CSE Seminar Hall
Resource Person	: Mr.N.Leelavinoth ,
	Cyber Security, senior
	software Engineer,
	INFOSYS, Bangalore
Outcomes	: Cyber Security concpt

er, galore : Cyber Security concpts and IT sector and Jobs opening







Guest lecturer program held on 16.06.2022 at 3.00 PM.

Participated Students	: II year Students
Venue	: CSE Seminar Hall
Resource Person	: Mr.P.Karthikeyan
	Assistant Professor VIT,
	Vellore
Outcomes	: FOG Computing concepts
	and research Area



NEWS FROM COLLEGES



Workshop on 6-Days Training Program on Animation Design held on 20.06.2022 to 25.06.2022

Participated Students	: II year Students
Venue	: CSE Computer Lab
Resource Person	: Mr.K.ChandraSekhar
	APITA-Animation Design
	Trainer,

Outcomes

: Maya and VFX concepts and IT sector and jobs opening





Organized by PARTMENT OF MPUTER SIDDARTHA INSTITUTE OF





NEWS FROM COLLEGES

DEPARTMENT ECE EVENT ORGANIZED IN THE MONTH OF JUNE– 2022

C N				
S.N	NAME OF THE	DATE& TIME	RESOURCE PERSON	N0. OF
0	EVENT			ATTEN
				DEES
	WORLD			
1	ENVIRONMENT	05-06-2022	Dr. M. JANARDHANA	100
	DAY		RAJU	
	ONE WEEK YOGA			
2	PRACTICE	06-06-2022 To 13-06-2022	Mr. SharadKulkarni,Yoga	250
	PROGRAM		Trainer	
3	INTERNATIONAL	21.06.2022	Mr. SharadKulkarni,Yoga	500
5	YOGA DAY	21-06-2022	Trainer	300
4	Softskills and			
	employability	20.06.2022 to 25.06.2022	Abisha Shirley	54
	skills for girls			
5	Animation design			
	skill oriented	20.06.2022 to 25.06.2022	Mr. Dinakar Reddy	130
	course		5	
			Dr. S. ViswanadhaRaju	
			Dr. M. JanardhanaRaju,	
			Dr. Vandana Sharma,	
6	NAAC Granted	16.06.2022 to 17.06.2022	Dr. ParthaSarathiMallick,	120
	seminar		Mr. R. S. Muralinath,	
			Dr. B. Balamurugan	
			Dr. R. Madana Mohan,	
			Di. K. Mauana Monall,	

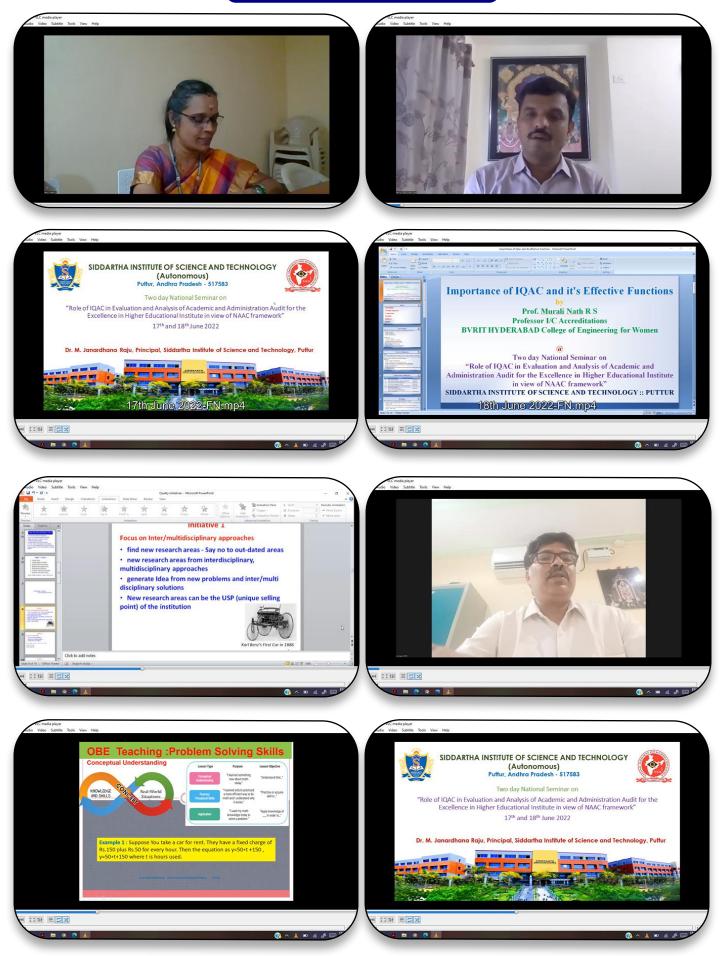
01. Animation Design Skill Oriented Course







02. NAAC Seminar Photos



03.Employability Skills







Anantapur Engineering College Alumni Association Newly Elected Office Bearers for 2022-24

Alumni News



S.No	Designation	Name	Year	Mobile No
1	President	Janakirama Rao T	1978	8801040111
2	Vice President	Venugopal P	1983	9396580111
3	Vice President	Narasimharao PVL	1984	9490612530
4	Secretary	Ravi Kumar Dr.D	2008	9885414056
5	Joint Secretary	Ravi Prakash Naidu P	1983	9790570999
6	Treasurer	Srinivasulu Y	1969	9885450747
7	Joint Treasurer	Janardhan Reddy J	1970	9849113905
8	Member	Basavaraju Dr.D.	1969	9989955477
9	Member	Indrasena Reddy A	1967	9246546886
10	Member	Varada Charyulu	1967	9849557475
11	Member	Kishore Nath Dr.N	1995	9490747246
12	Member	Narasimhamurty V	1970	9885584608
13	Member	Ramachandra Murty SS	1970	9848999391
14	Member	Ramayya KA	1967	9391132959
15	Member	Vijaya Raghavan G	1969	9966485444

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Change your **Perception** to Change your **Perspective**

Robert Bolano said, "People see what they want to see and what people want to see never has anything to do with the truth". This quotation aptly summarises the importance of perception. Perception is the process of understanding a situation or a person based on the sensory information. However, what happens generally is the information received through the senses gets analyzed in the brain and defines our final perception. We perceive what we believe. Everyone has their own beliefs based on their earlier experiences and these beliefs are like mental filters. The information passes through these filters and based on these filters, we arrive at our perception. If your perception is that all human beings are selfish and opportunistic, your perspective will be thateveryone wants to take advantage of you. With this perception, it becomes highly difficult to make friends because you are suspicious of everyone around you and you might remain lonely. Suppose your perception is that all humans are kind and friendly, your perspective will be that they are always helpful. With this perception, it becomes very easy to make good relations with people around you. Your perception i.e. mental filters are like coloured lenses through which you see things. If you look through a red lens, every thing appears red. If you look through a green lens, everything appears green.

Let us illustrate with a simple story of a young couple travelling on a train. At one station, an old couple with their son, about 30 years old boarded the same compartment and sat in front of the young couple. Their son was constantly looking out of the window and expressing his joy for even simple things by exclaiming "Dad, see how the clouds are moving" or "Dad, the trees are going back! What a wonder!" or "Dad, see that beautiful pond." The young couple got annoyed with his childish behaviour. After all, he is a grown-up man and he is not expected to behave like that. They felt disgusted about his behaviour and thought that the young man is mentally not well. They bluntly asked the father, "Why don't you show your son to a doctor? The old man smilingly replied, "Yes. We are coming from the hospital only. Our son lost his eyesight at the age of 03 due to an accident and we tried all the possible ways to get his eyesight back. Fortunately, he could get back his eyesight and today only he was discharged. After so many years, he can see the things through the window of the moving train!" After hearing this, the young couple got shocked and felt guilty for their rude behavior. Their annoyance and disgust changed into compassion and empathy towards that young man. Their perception has changed so has their perspective towards the young man. My dear students, you see the world not as it is but as you are. Change your perception to change your perspective towards the people and the world around you...

యద్భావం తద్భవతి

**You become what you think *

Prof. K. Hemachandra Reddy Chairman, APSCHE

Date: 24-06-2022

LENS TECH

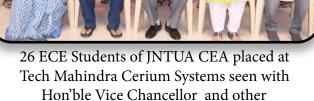






Padmavathi School of Pharmacy Tiruchanuru Visit by Hon'ble Vice Chancellor Prof. G. Ranga Janardhana on 01.06.2022





University Officials on 02.06.2022



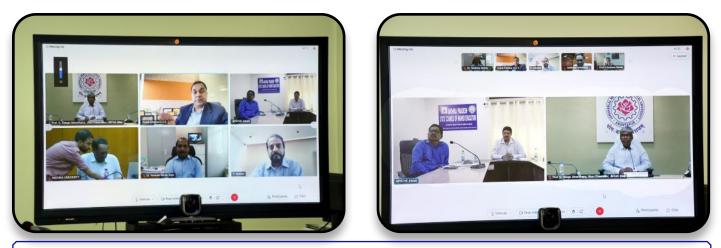
Board of Studies Chairpersons Meeting Held at University Conference Hall on 04.06.2022



Retd. Profs. Prahalada Rao, Govindarajulu, and Giri Prasad receiving retirement benifits from Hon'ble Vice Chancellor on 04.06.2022



Visit by Prof. M. Surya Kalavathi, Vice Chancellor Yogi Vemana University, Kadapa on 06.06.2022



Hon'ble Vice Chancellor Prof. G. Ranga Janaradhana attending the first meeting of Examinations Reforms Committee by virtual mode hosted by AP State Council of Higher Education on 07.06.2022

Important National & International Days in June



The United Nations declared 3rd June as international World Bicycle Day to recognize the uniqueness, longevity and versatility of the bicycle, which are affordable, environmentally friendly fit sustainable means of transportation.



World Environment Day is observed every year on 5 June and is celebrated by more than 100 countries. The environment is a major issue, which not only affects the well-being of the people but also hampers economic

development throughout the world.



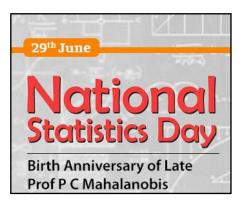
World Food Safety Day is celebrated on 7 June to draw global attention to the consequences of contaminated food and water to health. Also, this day focuses on the way to reduce the risk of food poisoning. The safety of food is a key to achieving Sustainable Development Goals.



World Blood Donor Day is observed on 14 June International Yoga day is celebrated across the every year to raise awareness about the urgency support. Donating blood is an act of solidarity. Join the effort and save lives.



globe on 21 June to raise awareness about yoga knowledge and appreciate blood donors for their in life and to make people aware of the benefits celebrated by the Ministry of AYUSH.



The day is observed on 29 June to popularise the use of Statistics in everyday life. The day commemorates the birth anniversary of Prof. P C Mahalanobis. The theme of National Sta-

tistics Day 2022 is "Data for Sustainable Development".



WORLD ENVIRONMENT DAY

14-06-2022 organised by The Institution of Engineers (India), Anantapur Local Chapter JNTUA CEA Anantapuramu.





Planting of sapling by Hon'ble Vice Chancellor in the premises of EEE Department JNTUA CEA.



Planting of sapling by the Lady Directors of JNTUA.



Group Photograph taken on the occassion



Hon'ble Vice Chancellor Prof. G. Ranga Janaradhana and other University Officials attending Vice Chancellors Meeting hosted online by AP State Council of Higher Education on 14.06.202



Hon'ble Vice Chancellor Prof. G. Ranga Janaradhana and other University Officials attending virtual meeting with Principals of Affilitated colleges on 15.06.2022 regarding Microsoft Upskilling programme, LMS, Internshipos and communiti service projects



Visit by Shri Talari Rangaiah Member Loksabha, Ananthapur Constituency on 20.06.2022



Hon'be Vice Chancellor Prof. G. Ranga Janardhana, Prof. Hemachandra Reddy, Chairman APSCHE and Prof. M. Vijaya Kumar Rector, seen with the Member of Parliament.



APEAPCET - 2022 Core Committe Members meeting with Prof. Hema Chandra Reddy Chairman APSCHE on 20.06.2022

Inauguration of Renovated Ajantha Hostel JNTUA CEA on 20.06.2022 by Prof. Hema Chandra Reddy, Chairman APSCHE.





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Felicitation of Prof. K. Hemachandra Reddy on 20-06-2022 for appointment as APSCHE Chairman for second consecutive term.



International Yoga Day Celebrations Theme for 2022: Yoga for Humanity 21-06-2022





Yoga Day Celebrations at Oil Technological and Pharmaceutical Research Institute (OTPRI), JNTUA Ananthapuramu.



Yoga Day Celebrations at JNTUA: Prof. S. Sharada NSS Coordinator and the Chief Guest Prof. C. Sashidhar Registrar seen along with Yoga Trainer & Senior Faculty Mamatha Kurnool from the 'Art of Living' foundation, staff and student participants.

Momorandum of Understanding by JNTUA and Ministry of Road Transport & Highways regarding starting of M.Tech Programme in Bridge and Tunnel Engineering in Civil Engineering, JNTUA CEA on 22.06.2022.



Meeting of University Officials with officers from Ministry of Road Transport and Highways

Prof. C Sashidhar, Registrar JNTUA and Sri D. Sarangi Additional Director General (Zone - I, IV & S&R) MoRTH, Government of India are seen signing the MOU.





Exchange of MOU document in the presence of University Officials

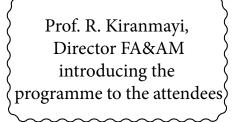
Felicitation of Shri D. Sarangi by the Hon'ble Vice Chancellor, Rector, and the Registrar.



Guest Lecture on "Orientation on Higher Studies oveseas"

organised by Directoraate of Foreign Affairs and Allumini Matters on 27.06.2022 Venue: Prof. S. Tiruvengalam Memorial Seminar hall Dept. of EEE, JNTUA CEA.







Speaker Aarthi Viswanathan Director-MANCOMP Overseas Education seen addressing the audience.



Student Participants attending the lecture.



Prof. C. Sashidhar releasing the poster by SFI Anantapur Committee on Free Model EAPCET 2022 Examination. Photo date: 28.06.2022

