FANZINE-2021

Reflecting Creative Skills



Annamacharya

Institute of Technology and Sciences::Tirupati (Autonomous)



ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES TIRUPATI

(Autonomous)
<u>Fanzine - 2021</u>

Dr. C. Nadhamuni Reddy Principal & Editor – in – chief Dr. D. Bharathy, Assoc. Prof of English Editor

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES TIRUPATI

(Autonomous) <u>Fanzine - 2021</u>

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AITS:: TPT COLLEGE FANZINE TEAM -2021



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Mr. G. Bala Krishna PA to Principal

ABOUT COLLEGE

Annamacharya Institute of Technology & Sciences, Tirupati (AITS-T) was established in the year 2007, with a belief that education can influence and mould young minds. Within a decade, AITS, Tirupati received the prestigious stature of an institution with quality education.

It is a sprawling campus of more than 45 acres of land. Attributing the historical importance, Thalapaka Annamacharyulu, one of the beloved disciples of Lord Venkateswara who always cherishes to find his berth at his lotus feet. Symbolically, the institute has been christened the name of Annamacharya and is established at the foot of Seven Hills the abode of Lord Venkateswara.













Greenery around the college

It is promoted by Annamacharya Educational Trust, a group of professionals for whom education is a passion. With an experience of over 20 years in the field of Engineering, Management, Education and Pharmacy, the Trust runs many colleges across Telangana and Andhra Pradesh states.

Being a part of Annamacharya Group of Institutions, the institute is committed to impart

engineering skills to the students and provide a window for them to explore the opportunities to

achieve their goals. Annamacharya Institute of Technology and Sciences, Tirupati endeavours to

be the leading centre providing world-class education while incorporating innovative teaching

methods for engineering and research.

VISION:

To Promote Excellence in Technical and Management Education

MISSION:

* Strengthen the Learning-Teaching Process for Holistic Development.

* Upgrade Physical Infrastructure to meet the Curriculum needs.

* Enhance Industry-Institute Interactions to acquire Professional Competency.

* Promote Innovation and Research to address Challenges of Society.

OBJECTIVES:

* To create a conducive and competitive environment for students through curricular and

extra - curricular activities.

* Promote the culture of research among the faculty.

* To promote synergetic alliances with premier Institutions, Industry, CSIR laboratories

and various Government organizations for Collaborative Research Projects.

* To promote economic and social enrichment of the society through Skill Development

Programmes, Entrepreneurship and extension activities.

* To introduce demand driven new UG & amp; PG academic programmes.

* To ensure a high degree of quality in terms of providing infrastructure, research

ambience, faculty and staff development.

PROGRAMMES:

<u>UG</u>: ECE, EEE, CSE, AI&DS, AI&ML, CIC, ME and CIVIL

PG: M.TECH (ECE, EEE, ME and CIVIL) MBA.

ABOUT CHAIRMAN



Sri.C.Gangi Reddy Founder and Secretary

Sri. C. Gangi Reddy, Founder and Honorary Secretary of Annamacharya Educational Trust, was born in the year 1954 in Thallapaka Village, Kadapa (Dist), Andhra Pradesh, the birth place of famous saint poet Sri Thallapaka Annamacharya a devotee of Lord Balaji. He was Post graduated from S.V. University, Tirupathi. He served as Senior Officer for more than 30 years in Registration & Stamps Department, Government of Andhra Pradesh. He was the President of Rayalaseema Engineering and Pharmacy Colleges Management's Association, Andhra Pradesh Andhra Pradesh Private Engineering Colleges Managements Association (www.appecma.org) and Consortium of Autonomous Engineering Colleges in the region of JNTUA.

He founded **Annamacharya Educational Trust** in the year 1997 and established the following Educational Institutes under the Trust in Telugu states.

- Annamacharya Institute of Technology and Sciences (Autonomous), Rajampet, Kadapa Dist. AP
- 2. Annamacharya PG College of Computer Studies, Rajampet, Kadapa Dist. AP.
- 3. Annamacharya College of Education, Rajampet.
- 4. Annamacharya College of Pharmacy, Rajampet.
- 5. Residency College of Education, Rajampet.
- 6. Residency College of Elementary Teacher Education, Rajampet.
- 7. Annamacharya College of Elementary Teacher Education, Rajampet.
- 8. C.Gangi Reddy Degree College, Rajampet.
- 9. C.Gangi Reddy College of Elementary Teacher Education, Rajampet.
- 10. C.Gangi Reddy Integrated Degree College (B.Sc., B.Ed), Rajampet.
- 11. C.Gangi Reddy Junior College, Rajampet.
- 12. Annamacharya Institute of Technology and Sciences, Karakambadi Road, Tirupati, Chittoor Dist.
- 13. Annamacharya Institute of Technology and Sciences, CK Dinne, Kadapa.
- 14. CGR International School, Hyderabad, Telangana State.
- 15. Annamacharya Institute of Technology and Sciences, Hyderabad.

16. Annamacharya Institute of Technology and Sciences (2nd Shift Polytechnic) College, Hyderabad.

AWARDS:

He is the recipient of many awards, some of them are:

- 1. Rayalaseema Ratna by Rayalaseema Art Theatre (RATA)
- 2. Edupreneur by Engineering Watch Magazine.
- 3. Best Upcoming Engineering Institute in A.P. by CMAI National Andhra Pradesh Education Awards 2014.
- 4. National Award for Outstanding Engineering Education in Science and Technology in Remote Areas (Institution)' by Institute of Bio-informatics & Computational Biology, DNA Research Centre, Hyderabad.
- 5. Best Engineering Institute South by the Vijayavani National Educational Leadership Awards 2015.
- 6. Best Educational Group (Infrastructure and Facilities) By Dewang Mehta Foundation, founded in memory of Dewang Mehta, the former President of NASSCOM, Mumbai.

CHAIRMAN MESSAGE



Sri.C.Gangi Reddy Founder and Secretary

Education liberates people from the shackles of societal and economic inequities. It is a force that brings in happiness enhancing the living standards of rural families. All the children are not blessed with a chance, due to different reasons, to pursue studies in IITs and so called best institutions mostly in urban locations.

This is a group established in multiple locations to cater to the needs of the all sections of the society mostly from rural background. I humbly say that our vision and dreams have become a reality, as in these two decades, our institute has earned the distinction as one of the best institutes in the state. This became possible because of the wholehearted and untiring efforts of all the people associated with the institute. Still we have to thrive more and see that this institute is developed as the best institute in the country. I thank all the students, parents, alumni, administration and our faculty members who are trying their best to turn my dream a reality. I assure you that you will have an enlightening educational experience and wish you all the best.

ABOUT PRINCIPAL



Dr. C. Nadhamuni Reddy Principal

Dr. C. Nadhamuni Reddy, Principal did his schooling in Chittoor District and 10+2 in Govt Junior college, Valmikipuram and finished his B.Tech Mechanical Engg in 1988 and M.Tech Industrial Engg at S.V. University College of Engg, Tirupati in 1990. After his M.Tech, he joined as Junior Industrial Engineer in Singareni Colleries and stayed there for 3 months and then shifted his interests to teaching career and worked as Lecturer in KL College of Engg, Vijayawada (presently KL University).

Then, he worked with GPR Engg College Kurnool as Asst Professor in Mech Engg, Associate Prof in Mechanical Engg & as Professor in Industrial Production Engg Dept of GPR Engg College Kurnool for more than 10 years and was given additional responsibilities of camp officer for valuation, Commissioning of New labs for Industrial production, Student Associations etc. During his stay at GPREC, he was awarded Ph.D in Industrial Engg by Sri Krishnadevaraya University, Anantapur in 1998.

- He authored three text books Viz., (1) Industrial Engineering and Management for New Age International Publishers, (2) Reliability and Quality Engineering for Galgotia Publishers and (3) Optimization methods & Operations Research for Kurnool publishers. He has published 33 papers in International journals and a few presented / published in the proceedings of International conferences. Also authored 70 plus research papers / articles in national journals.
- Later, he worked for 2 academic years as Professor & HOD of Mechanical Engg in Annamacharya, Rajampet during 2000-2002 and with Sri Venkatesa Perumal College of Engg and Technology, Puttur for more than 11 years as Principal. Appointed as Principal for AITS in August 2015.
- He has guided / supervised 10 Ph.D works under JNTU Hyderabad and JNTU Anantapur.

- He received many awards such as "Indira Gandhi Excellence Award" by Indian Solidarity Council, New Delhi for 2005-2006. And "Best Education in Excellence Award" by Nations Economic for Health and Educational Growth, New Delhi for 2008, "Jewel of Indian Award" by International Institution of Education & Research, New Delhi. "Rashtriya Gaurav Award" by "Indian International Friendship Society", New Delhi received in a function at Hyderabad, and Best Principal of the Year 2021 award by Indian Society Technical Education (ISTE) Andhra Pradesh 2021.
- He is presently the Member of Board of Studies of Mech Engg for JNTUA.

MESSAGE BY PRINCIPAL



Dr. C. Nadhamuni Reddy Principal

One of the most important tools that one can change the attitude of the world is education. It drives away ignorance and emboldens a man to a righteous thought and action. Our college is one of the highly reputed engineering colleges in south India that offers different UG and PG courses and we teach the courses differently thereby simplifying education and augment knowledge. We strongly believe that the true Engineering education means not just providing luxurious facilities to the students, it is also a platform where hidden talents and imaginations are converted into applications in the real and creative world.

Our college cares for the all round individual development of each and every student by "Student counseling system". We give utmost importance to the behavioral discipline, moral values, social ethics, integrity and cognitive developments in our students. Our faculty strives to teach not only academic programmes but also life skills that are needed for students' self development.

The world became tiny today due to technology. There is a great opportunity for everyone to prove themselves and serve the community for the betterment of human beings.

I wish you best of luck for your bright future!!!

LIBRARY

The college library is the main source of information for the academic community. The library situated in the 'B' Block of the college. J – GATE and DELNET provides user id and pass word to users of the library. It facilitates to gather information from e-journals, books and other information which supports research activities.















The main reception centre of the library is incorporated with latest software technology that helps in the easy issuing of books. All the students are given instruction regarding the use of digital library. The fully digitized library has the facility of Wi-Fi, open stack system, Online Public Access Catalogue (OPAC), New Arrival Display and photocopy facility.

HIGHLIGHTS FACILITIES

- Covered area **10225 sq.ft** with comfortable Furniture.
- Internet facility
- IEL-Online E-Journal Access through INDEST-AICTE Consortium.
- OPAC facility
- No. of books more than 26947 and No. of Titles 4704, 8 periodicals including 25 foreign technical journals and magazines from professional societies such as J- Gate, DELNET, IEEE.
- Fully computerized library information system with Barcoding of books and ID cards to enable laser scanning of issue, return and stock taking.
- Separate section for Text, Reference books and Periodicals

DIGITAL LIBRARY:

- ❖ It is a part of the Central Library with Intranet with Internet access of 115 MbPs Shared.
- ❖ Library Software Available : TLSS (Total Library Software System)
- ❖ Member of JNTUA Consortium of Institutions of Library Resources
- ❖ E-Journals Publications: J-Gate, Taylor & Francis, DELNET
- ❖ E-Books : EBSCO (E-Books Engineering Core)
- Video Lectures delivered by eminent professors from different IITs are downloaded from the website: http://nptel.iitm.ac.in (NPTEL NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING) and made available in the Digital Library.
- ❖ It has 20 Computer terminals to access Internet / e-Learning resources.
- ❖ The Digital Library holding 150 general educational CDs of Engineering Subjects.
- ❖ JNTUA Question Papers: B.Tech, M.Tech & MBA (R05, R07, R09, R13 & R15)
- ❖ JNTUA Syllabus : B.Tech, M.Tech & MBA (R07, R09, R13, R15,R17, AK19 & AK20)

LIBRARY SERVICES:

- Lending service
- e- books access
- Reference service
- Information Retrieval/Internet Print out.
- Service for career & Placement Aids
- Referral Service
- OPAC
- SDI Service
- Current awareness service
- Inter library Loan Service
- Reprography service
- Multimedia based User Orientations.
- Internet Access
- Maintaining Question Bank
- E-Journals (Full text) Access

INSTITUTIONAL MEMBERSHIPS OF OTHER LIBRARIES

- National Digital Library of India, IIT, Karagpur.
- Developing Library Network. (DELNET), New Delhi

The Library timings : 8:00 am to 6:00 pm on all working days.

On Sundays and holidays : 9.00 am to 4.00 pm.

HOSTELS:

Separate hostels available for Boys and Girls inside the campus, with well furnished and spacious rooms. The hostels have excellent water facility, modern kitchen and dining. The students are provided with the choice of vegetarian and non vegetarian food. The rooms are furnished with individual cots, tables, chairs, and bureau. Importance is given in maintaining discipline and security of the students.

The resident warden of each hostel takes care to see that all the needs of the students are met and a homely atmosphere with a sense of security is created. Immediate medical care is given to hostel students on requirement.





Girls Hostel Boys Hostel

CANTEEN:

A canteen with a built-area of over 4000 sq. ft. is in the campus. The canteen has been well planned and well-furnished. It has a seating capacity of 175. Two RO Systems each with 2000 liters per hour are installed to ensure constant supply of safe drinking water in the entire campus that also caters to the need in the canteen.











SPORTS AND GAMES

Sports and games are a vital part of human physiology. Every man and woman likes sports or games as it is a means of recreation as well as physical activity. Games are character building in nature and gives a high level of physical energy and strength. It helps us to grow our personality, confidence level and maintains physical and mental balance. It also develops the habit of working in a team by developing a sense of friendship among team members. It makes a person with mental and physical fortitude by shaping the body and mind by eliminating tiredness and lethargy. Sports teach many life skills such as honesty, teamwork, leadership, and strategic planning that are required for good conduct in society.















GYMNASIUM:

AITS, has a modern gymnasium with high-tech equipment. The gymnasium has been constructed recently. The new Gymnasium is a fine recreational facility with a fully equipped weight-training section and a qualified kinetics. The Gymnasium has the following fitness equipment items: Magnetic Cycle, 12 Station Gym, Smith Machine, Flat Bench, Bench Press, Plates, Dumbbells etc,.









TRANSPORTATION:

The institution is providing a fleet of 9 vehicles used as conveyance for the benefit of students, faculty and others from distances varying from 12 to 40 km. In addition, college is facilitating the students to provide concessional bus pass.

- AITS is providing a fleet of 15 vehicles that are used as conveyance for the benefit of students, faculty and others from distances varying from 12 to 40 km.
- The vehicles are also used for visits to industries and for off-campus placements.
- AITS is providing bus facility for students and staff at very reasonable fare and all safety precautions have been taken to minimize breakdowns.



DEPARTMENT OF HUMANITIES AND BASIC SCIENCES



Dr. B. Ramachandra HOD of H & S

The Department of Humanities and Basic Science started from the inception of the college in 2007. Knowledge in basic science forms the base of Engineering. Department of Humanities and Basic Science aims to fulfill this function most efficiently. This Department is devoted to foster the fundamental principles and understanding of science to enhance the students' basic knowledge of Engineering. Its objective is to provide value-based education to the budding scientists and engineers.

The Department comprises different subjects of study namely **Mathematics**, **Physics**, **Chemistry and English**. The students of our college are highly benefited by the knowledge and experience of many doctorates of the department. Well-experienced and highly qualified faculty members of the department have made consistent and strenuous efforts to improve the students learning, research and development processes. The department has state-of-the-art English language laboratory with K-VAN solutions, Physics Lab and Chemistry Lab and advanced department library facilities.

Besides academics, the Department is actively involved in the development of students' personality, communication and soft skills to boost them in the modern and globally competitive environment. In addition to these, other extra-curricular activities like Quiz Competitions, Essay writing, Paper Presentation Competition, Elocution Competition Drawing and Painting etc. It has opened avenues to promote Entrepreneurship among budding engineers and imbibe in them the concept of Corporate Social Responsibility. The department also helps the students to acquire English Communication skill to increase their proficiency in English Language which will enable them to cope up with the cut throat competition in the job market.

VISION:

To establish a centre of excellence in basic sciences that provides foundation for engineering studies and also in communication skills.

MISSION:

- Nurture communication skills and all round excellence in students.
- Impart mathematical and basic science knowledge that forms the foundation for engineering analysis
- Inculcate ethical values and promote social responsibility through field surveys, visiting local bodies, various programs on personality development, yoga classes to create consciousness among student community.

FACULTY DETAILS:

Total No. of faculty: 36

S.No	Faculty	Members
1	Doctorates	16
2	Associate Professors	06
3	Assistant Professors	30

HOD'S PROFILE



Dr. B. Ramachandra HOD of H & S

Dr. Ramachandra Bandi received the Bachelor of degree (B.Sc) from SV Arts College, SVU, Tirupati, A.P, India in 2007, Master of degree in Analytical Chemistry from SV University, Tirupati, A.P, India in 2009. He received Ph.D. degree from S.V.University, Tirupati, AP, India in the year 2015. He is working as Assistant Professor and Head of Humanities and Basic Sciences department, Annamacharya Institute of Technology and Sciences, Tirupati. His current research areas are stability indicating RP-HPLC and UV-Visible Spectrophotometric methods for the quantitative estimation of various Pharmaceutical compounds.

He has more than 11 years of teaching experience and 12 years of research experience. He has published 33 articles in reputed National/International journals; few papers were published in UGC care, UGC Approved Journals, Scopus Indexed Journal and Thomson Reuter Journals and He has presented his research work at various national (6) and International (11) Conferences and seminars. He has authored one Book in LAP LAMBERT Academic Publishing entitled Development and Validation of Analytical RP-HPLC Methods for Active Pharmaceutical Ingredients Using Chromatographic Techniques.

Dr Ramachandra Bandis an active member of Professional bodies like Editorial board member of Pelagi a Research Library, Editorial board member of Journal of Pharmaceutical and Biological sciences and Member of the International Association of Engineers- IAENG membership number is: 178732. He has awarded the junior research fellowship (JRF) from UGC-BSR (RFSM), New Delhi, Govt. of India in 2012 and Selected for senior research fellowship (SRF) from UGC-BSR (RFSM), New Delhi, and Govt.of India in 2014. He is a Ratified faculty under JNTUA, Ananthapuramu-515002.

HOD'S MESSAGE

The first year B.Tech program is the entry point for all budding engineering students. It provides

students a firm foundation and an initial understanding of engineering and career options to assist

them in identifying whichever is the right fit. Our professional faculty and the student's advisors

are dedicated to assist the students for their future journey. At the outset, I would like to tell that

everyone is a unique personality in their own way. I advice you all to be like you and need not

imagine to be like others. The greatest achievement of education is when one learns their

responsibility in the society as a human being. There is a proverb which states "Failure is the

stepping stone for success:" And the first step to success is one should not afraid to Try. Don't

afraid of falling. Try and Try and Try until you reach your goal because every failure teach

multiple lessons and it gives experience what to do and what not to do. That itself is a big

SUCCESS.

I wish you all the best for your future endeavours.

Dr. B. Ramachandra HOD of H & S

DEPARTMENTAL LABS

COMMUNICATIVE ENGLISH LAB:

The significance of Communicative English laboratory has been much felt in the domain of communication. We live in a multilingual and multicultural world, which is being shrunk to the size of a village by the advancement of science and technology. The language laboratory exists to help students to use technology effectively to communicate. The main objective of this lab is

- 1. To improve the communicative ability.
- 2. To enhance the general conversational skills in different socio-cultural contexts.
- 3. To strengthen their professional skills.
- 4. To instil confidence and make them competent enough to express themselves fluently.
- 5. To expose the students to various spoken skills.









APPLIED PHYSICS LAB:

Applied Physics Laboratory is used by B.Tech I year (ECE,CSE,CIC, AI and DS, AI and ML and EEE) students to upgrade their practical skills in accordance with the concepts related to the properties of light like Interference, Diffraction etc, concepts of magnetism, electromagnetism etc.





ENGINEERING PHYSICS LAB:

Engineering Physics Laboratory is used by I B.Tech (CE and ME) students to upgrade their practical skills in accordance with the concepts related to the properties of light like Diffraction, concepts of electricity, magnetism and electromagnetism etc.





CHEMISTRY AND ENGINEERING CHEMISTRY LAB:

Chemistry lab (CSE, CIC, ECE and EEE) and Engineering Chemistry lab (CE and ME) are used by I B.Tech students with a practical approach to upgrade their practical skills towards the various techniques used in engineering application. This laboratory has all the necessary equipment for Quantitative analysis of samples. The laboratory houses traditional equipment including glassware, chemicals, Phmeter, Potentiometer, Conductometer etc...







ARTICLES BY FACULTY:

GREEN CHEMISTRY



Dr. P. Lavanya Associate Professor of Chemistry

Chemistry is a friend that greets us every day with its widespread wings at every corner of my neighbourhood. It is a constant effort made by human race to understand the fundamental fibres weaving an entity so as to rescript it in accordance with our needs and desires. Chemistry is a multi-disciplinary branch of science that intertwines with other streams of maths, physics, biology and geography etc. Principles of chemistry are applicable at a wider range of industrial, agro-pharmacological and medicinal sectors which greatly contributes to the world's economy. On account of the ceaseless advancements in chemical sciences a gazillion tons of unwanted and harmful chemical waste is released into the environment without prior treatment. As the waste management alone costs twice as much as its production chemists started exploring alternative methods to reduce the by-products with sustainable and green approach. Any chemical reaction needs reactants and a medium along with optimum physical parameters and may be a catalyst to increase the rate of the reaction. Choosing high potent starting materials with efficient catalyst that is recyclable and reusable that gives high yields allows complete conversion of reactants to the desired products with minimal to no by-products. The use of eco-friendly medium makes it easier to release it into the environment without any complexity.

As stated in the words of General Omar N. Bradley "the world is has achieved brilliance without wisdom, power and without conscience. Ours is a world of nuclear giants and ethical infants." Human activities have staggered loads of tons of wastes over the years of development. The use of pesticides and insecticides for terminating pests, the use of fertilizers to increase the crop yield have made it possible to provide sufficient food in the late 20th century making them necessary evils while simultaneously sabotaging soil, air and water. Preventing development is not an option therefore improved eco agricultural practices such as superior seeds and proper irrigational processes significantly decreased the use of chemical fertilizers. The use of the known principles of chemistry to influence the negative impact on environment is known as Green Chemistry. It deals with the gainful processing of the by-products in a cost-efficient method without causing any pollution. Exercising processes that reduce the generation of hazardous waste along with amplification of yield per cycle is the foundation for green chemistry.

Astronomical amounts of carbon is released into environment in the form of carbon dioxide every year through various sources especially through combustion and respiration. Being one of the significant green-house gases makes it important to process it briskly. Fortunately, this carbon dioxide can be used as a starting material for many sustainable procedures. The prime drawback in this method is that the crude carbon dioxide is accompanied with other unwanted gases which should be purified in advance. This drew the interest of researchers to activated carbon material that is capable of adsorbing carbon dioxide with selectivity. The abundance of activated carbon produced from polysaccharides giving micro to meso

porosity to the solid material attracted James Clark to create Starbons. Starbons can be customised in accordance with the desired range of separation and being unaffected with water vapor is one of the salient features of this material.

Research work to improve the competence of Starbons in terms of selectivity and efficiency in virtue of amending its structure by affixing a catalytic substance to convert carbon dioxide into desired products is still in progress. Many metallic catalysts such as bimetallic aluminium complex have been introduced in nanostructures as heterocatalysts to convert the collected carbon dioxide into useful materials on a larger scale. Carbon dioxide and epoxides can be oxidised into cyclic carbonates that have gained economic importance by its utility in lithium batteries that charge major part of the electronic devices that we use in our daily life. The contemporary work is focused on developing new catalysts that are free from halides and cocatalysts that are considered hazardous. A better understanding of the transformation mechanism permits the fabrication of ameliorate and superior catalysts that are capable of converting carbon dioxide into useful carbon substitutions.

One of the advantages of cyclic carbonates is its use as a green solvent substituting DMF and DMFO as apolar aprotic solvent for asymmetric aldol reaction in the presence of organic catalysts and other conversions involving natural amino acids. The Chiral solvent influence on asymmetric catalysis is observed through enantiomerically pure cyclic carbonates. Research on the importance of peptide synthesis and the production of carbon monoxide using plasm at normal temperature and pressure is stil under inspection.

Understanding the principles of chemistry has made synthesis and designing new materials with selective electro-magnetic and optical properties. In the recent times this led to confrontation of aspects related to environmental impact issues with high success rate. Safer alternatives for hazardous and toxic raw materials have been successfully constructed. In spite of the efforts made by many scientists to reduce the environmental problems numerous predicaments prevail at every step of the mechanism. These conundrums necessitate manoeuvring bright and proficient researchers to address environmental problem in an ever-progressing country like India.

ENGLISH LEARNING THROUGH TECHNOLOGIES

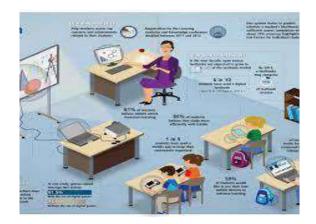


Dr. G. Aruna Assistant Professor of English

Technology is growing rapidly in every field. The field of Education is not an exception to it. Many developments have been taking place in the learning process due to the arrival of new technologies. The very new trends of technology brought changes in the old traditional way of teaching.



It replaced traditional offline classroom to online classroom. In traditional classroom, students will act like passive listeners. Students will not respond to any activities due to language problem. The importance of English has been widening but many students still lack the basic skills of English language because of fear, medium of language studied in schools and negative feeling upon themselves. Students treat English as other subjects not as a tool for global communication. Students must realize the dire need of English to develop the language skills. Educational institutions are also recommending new technological methods in teaching and learning process to provide effective learning environment and to motivate students. There are different multimedia emerging to make English learning so easy.



Teachers are opting the new technologies to reduce the stress on students those are being stressful by referring more materials, textbooks and attending spoken English classes as in a regular manner of teaching method. Technology is an added advantage for students. This becomes an easier task for students to learn faster and to train themselves.

List doesn't stop here. There are many more and innovations are still on the go.

PH.D.'S AWARDED:

1. Name of the faculty : N. Satish Kumar

Research Guide : Prof. K. Seshaiah, Department of Chemistry, S V University,

Tirupati

Title : Synthesis of Organic-Inorganic Hybrid Materials and their

Applications

Awarded : 15th November 2021



2. Name of the faculty : K. Madhavi

Research Guide : Dr. N. Nagendra, Department of Mathematics, JNTU,

Ananthapuramu

Title : Some Studies on Non-Newtonian Boundary Layer Flow Over A

Horizontal Circular Cylinder/ AnIso Thermal Sphere

Awarded : 22nd December 2020.

PATENTS

1. Title: AN AI BASED SYSTEM FOR PROCESSING ALGEBRA OPERATION AND

METHOD THEREOF.

Authors: Dr. B. Nageswara Rao, Dr. C. Siva Sankar, Mrs. Rosemary Varghese, Dr. Ajay Kumar Sharma,

Dr. M. Prakash, Dr. B. ArunaKumari, Dr. Poonam Mishra, Dr. M. Mary Jansirani, Sr. B. Kanmani

Pushpa, Dr. Ashim Bora

Publication Date: 17-12-2021

The Patent Office Journal No. 51/2021

ABSTRACT:

The present invention discloses a fuzzy logic based information processing system and method

therof. The system includes, but not limited to, an address decoder unit for receiving a first input

signal and decoding the first input signal to provide a decoded signal; a memory having unit a

plurality of memory locations the memory being coupled to the address decoder unit for

receiving the decoded signal, the memory proving a first fuzzy input value in unary from a first

one of the first plurality of memory locations indicated by the decoded signal; and a logic means

for selectively performing a logic function using the first fuzzy input value, the first logic means

being coupled to the memory for receiving the first fuzzy input value and the first logic means

providing a first minimum value.

2. Title: SENSOR ASSEMBLY FOR EVALUATING FLUID DYANAMIC FOR A

MECHANICAL SYSTEM AND METHOD THEREOF

Authors: Dr. Y. Madhusudhan Reddy, T. Ch. Anil Kumar, Dr. Vishal Mehta, Dr.Narsu Sivakumar, Mrs.

Mulupuri Nagapavani, Dr. Veena Kusuma Kumari, Dr. G. Vijaya Lakshmi, Mrs. Rosemary Varghese, Dr.

Chanda Thapliyal Nautiyal, Dr. N. Tarakaramu, Dr. K. Bhagya Lakshmi

Publication Date: 31-12-2021

The Patent Office Journal No. 53/2021

ABSTRACT:

Device and/or machinery diagnostics, prognostics, and control are made easier with the help of

condition sensing, which may include detecting the condition of the device and/or the state of

fluid inside the device (e.g., fluid health indicators). The system may make use of several sensors

to identify the present state and estimate the future state of the fluid and/or device, as 5 well as to

manage the device, for example, to extend the remaining usable life of the fluid and/or to

improve the functioning of the device. They may connect wirelessly with one another, with the

device, and/or with a central control system that offers functions like sensor fusion, prognostics,

and control integration, amongst other things. Additionally, depending on the physical or

chemical features of the surroundings, the sensors may be powered locally.

3. Title: INTELLIGENT MOTION DETECTING SENSOR FOR DOMESTIC

APPLICATION

Authors : Mr. Jangili Srinivasa Rao, Dr. V. Sandeep Kumar, Dr. Ahmad Syed, Dr. Ajay Kumar Sharma,

Dr. Manoj Kumar Chande, Mr. NagarauBudidha, Dr. N. Tarakaramu, Dr. K. Bhagya Lakshmi, Mr. P.

Kishore, Mr. RizwanMunir Shaikh, Dr. T.V.V. Pavan Kumar.

Publication Date: 10-12-2021

The Patent Office Journal No. 50/2021

ABSTRACT:

A cloud-connected motion sensor lighting grid may consist of a wireless lighting network of

coordinated lighting units, as well as a bridge that connects to other devices such as a mobile

phone, home automation system, or security system, among other things. The cloud-connected

motion sensor lighting grid may also be installed locally, with a mobile phone talking with the 5

bridge for control, status, and warnings and monitoring and reporting. Using an Internet

connection, the cloud-connected motion sensor lighting grid may interact with a server on the

Internet, which may be capable of talking with the wireless lighting network and capturing data

sensed by motion sensors in the wireless lighting network.

4.Title:A FUZZY LOGIC BASED INFORMATION PROCESSING SYSTEM AND METHOD

THEREOF

Dr. J. Ebenesar Anna Bagyam, Dr. Manoj Kumar Chande, Dr. Prashant P. Malavadkar, Dr.

K.Sampath Kumar, **Dr. R. Vijaya Lakshmi**, Dr. C. Siva Sankar, Dr. Ashim Bora, Dr. Dubisetty

VidyanadhaBabu, Dr. M. Mary Jansirani, Mr. Nellore Manoj Kumar.

Publication Date: 21-01-2022

The Patent Office Journal No. 03/2022

ABSTRACT:

The present invention discloses a fuzzy logic based information processing system and method

therof. The system includes, but not limited to, an address decoder unit for receiving a first input

signal and decoding the first input signal to provide a decoded signal; a memory having unit a

plurality of memory locations the memory being coupled to the address decoder unit for

receiving the decoded signal, the memory proving a first fuzzy input value in unary from a first

one of the first plurality of memory locations indicated by the decoded signal; and a logic means

for selectively performing a logic function using the first fuzzy input value, the first logic means

being coupled to the memory for receiving the first fuzzy input value and the first logic means

providing a first minimum value.

PUBLICATIONS

BOOKS:

Name of the Faculty: Dr. K. Kiran Kumar, Associate Professor of Physics, AITS, Tirupati.

Title

: ENGINEERING PHYSICS

Authors

: Dr. N. RadhaKrishna Murthy, Dr. K. Kiran Kumar,

Publishers

: Spectrum Publications,

Year of Publication: 2019

HIGHLY REPUTED JOURNALS:

1. Name of the faculty: Dr. P. Lavanya, Associate Professor of Chemistry, AITS, Tirupati.

Journal Name: Chemical Data Collections: Elsevier

Volume and Page Numbers: 37, February 2022, 100804

DOI: https://doi.org/10.1016/j.cdc.2021.100804

<u>Title</u>: A GREEN, AN EFFICIENT AND VIABLE APPROACH FOR THE SYNTHESIS OF NOVEL 4H-PYRAN-INDOLIN-2-ONE DERIVATIVES VIA A ONE-POT REACTION BY GRINDING METHOD.

Authors: Bolla Lakshmi Prasanna a, BattulaSreenivasa Rao, PhD a,*, P**alakonduLavanya** c, Suresh Maddilaa,b,*

ABSTRACT: An highly efficient and green approach for the synthesis of novel 4H-pyran-indolin-2-one analogues by the reaction of various isatins with 4H-pyran-4-one using NaHCO3 as catalyst under solvent-free and grinding conditions at room temperature has been showed with good to excellent product yields (89-98%). All the synthesized target compounds has been categorized by various spectroscopic techniques (1H NMR, 13C NMR, HRMS and FT-IR). This novel protocol has several benefit of mild reaction condition, normal grinding, easy available catalyst, economy, environmental-friendly, short reaction times (≤ 5 minutes), excellent product yields, and absence of any tedious workup.

Keywords: Green chemistry, Grinding, One-pot synthesis, 4H-pyran-indolin-2-ones, Ecofriendly

2. Dr. K. Kiran Kumar, Associate Professor of Physics, AITS, Tirupati.

Journal Name: Journal of Non-crystalline Solids: Elsevier

Volume number and details: 553, 120521 and 2021.

<u>Title:</u> A study of NIR emission and associated spectroscopic properties of Nd3+: P2O5+K2O+Al2O3+ZnF2 glasses for 1.06µm laser applications

Authors: V.B. Sreedhar, RamachariDoddoji, **K. Kiran Kumar**, Vasudeva Reddy Minnam Reddy

ABSTRACT:

For studying spectroscopic properties of 1.06 µm laser emission, zincfluoro phosphate glasses (PKAZf) with varying of Nd2O3 concentration were fabricated by the melt-quenching technique. Amorphous nature, thermal stability and physical properties of glasses were studied in detail. The optical band gap of PKAZfNd1.0 glass wasestimated for indirect(3.21 eV) and direct(3.34 eV) transitions. The radiative parameters like radiative emission probability,

radiative lifetime, branching ratio, and effective line width were calculated for

4F3/2→4I13/2,11/2,9/2 transitions. With 808 nm irradiation, the NIR emission spectra showed

a strong band at 1.06 μ m (4F3/2 \rightarrow 4I11/2), and two less intensity bands at 1.33 μ m

 $(4F3/2\rightarrow 4I13/2)$ and 0.89 µm $(4F3/2\rightarrow 4I9/2)$. The decay curves were fitted to the double

exponential function and the decrease of lifetimes from 261 to 208 us was observed. The

PKAZfNd1.0 glass provides some favorable spectroscopic parameters: high gain (125.61 ×

10—25 cm2s) and low threshold $(1.67 \times 108 \text{ W/m2})$ properties, including stimulated emission

cross-section $(4.74 \times 10 - 20 \text{ cm}^2)$ and quantum efficiency (89%).

UGC Publications:

1. Name of the Faculty: 1. Dr. P. Krishnaveni, Associate Professor of English, AITS, Tirupati.

2. Dr. D. Bharathy, Associate Professor of English, AITS, Tirupati.

Journal Name

: Research Journal of English (RJOE)

Title: RELATIONSHIPS AND MORAL CONFLICT IN MANRO'S TRAIN

Volume number and details: ISSN: 2456 – 2696; Vol-5, issue-2, March 2020

Impact factor: 4.5

2. Name of the Faculty:

1. Dr. D. Bharathy, Associate Professor of English, AITS, Tirupati.

2. Dr. P. Krishnaveni, Associate Professor of English, AITS,

Tirupati.

Journal Name

International Journal of Research and Analytical Reviews

IJRAR)

Title: IMBIBING GLASS CEILING CULTURE IN GIRL CHILD

Volume number and details: E- ISSN – 2348 - 1269; Vol-8, Issue 4, December 2021.

Impact factor: 7.17

:

32

3. Name of the Faculty: **Dr. N. Tarakaramu**, Assistant Professor of Mathematics, AITS, Tirupati.

Journal Name : International Journal Of Ambient Energy

<u>Title</u>: INFLUENCE OF CHEMICAL REACTION ON MHD COUPLE STRESS

NANOLIQUID FLOW OVER A BIDIRECTIONAL STRETCHED SHEET

Authors: P.V. Satya Narayana, Nainaru Tarakaramu and D. Harishbabu

Volume number and details: May 2021

DOI: https://doi.org/10.1080/01430750.2021.1923569

4. Name of the Faculty: **Dr. Krishna Jyothi**, Assistant Professor of Mathematics, AITS, Tirupati.

Journal Name : Frontiers in Heat and Mass Transfer

Title: THERMOPRORESIS AND BUOYANCY EFFECTS OF CHEMICALLY REACTIVE UPPER CONVECTED MAXWELL FLUID FLOW INDUCED BY AN EXPONENTIALLY STRETCHING SHEET: APPLICATION OF CATTANEO-CHRISTOV HEAT FLUX

Authors: N. Vijaya, P. Krishna Jyothi, A. Anupama, R. Leelavathi and K. ambica

Volume number and details: Volume – 23 December 2021

DOI: 10.5098/hmt17.23

MEMBERSHIP IN PROFESSIONAL BODIES:

S.No.	Name of the	Membership Organization	Type of Membership	Membership Number
	faculty Dr. B. Rama	International	Life time	178732
1.	Chandra,	Association of	Life time	170732
1.	HOD and Asst. Prof	Engineers (IAENG)		
	of Chemistry	Liighteers (IALIAG)		
		The Indian Science	Life time	L22035
		Congress Association		
	Dr. K. Kiran			
2.	Kumar,	International	Life time	127412
	Associate	Association of		
	Professor of	Engineers (IAENG)		
	Physics	International Society	Life time	F3140900922
		for Research and		
		Development (ISRD)		
		Indian Association of	Life time	12026 L7984
	Dr. K. Ramya,	Physics Teachers		
3.	Assistant	(IAPT)		
	Professor of	International	Life time	274348
	Physics	Association of		
		Engineers (IAENG)		

FACULTY ACHIEVEMENTS

1. **Dr. K. Ramya,** Assistant Professor of Physics, AITS, Tirupati.

Resource Person:

Two Week Interdisciplinary and Multilingual Refresher Course/FDP on Managing Online Classes and Cocreating MOOCS 4.0 in Telugu language Organized by Teaching Learning Centre, Ramanujan College, University of Delhi, sponsored by **Government of India, Ministry of Human Resource Development** from 11th March to 26th March 2021.

Topics Delivered:

- a) CANVA
- b) KAHOOT

CANVA:

- Part 1: https://youtu.be/adzKD8DA1ws?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 2: https://youtu.be/wXEcy3ocmKM?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 3: https://youtu.be/tROukX19yEs?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 4: https://youtu.be/H1C28rpQ5y8?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 5: https://youtu.be/pvW2EsxHtus?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 6: https://youtu.be/zM8PR9IQVhU?list=PLcQbSlMr-VBIYI__fjZRvVkuAbuh_5RHe
- Part 7: https://youtu.be/-ToG6SLgUYc?list=PLcQbSlMr-VBIYI__fjZRvVkuAbuh_5RHe
- Part 8: https://youtu.be/QlbXdF8sxNw?list=PLcQbSlMr-VBIYI__fjZRvVkuAbuh_5RHe
- Part 9: https://youtu.be/jeTQUeH4e0g?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe

KAHOOT:

- Part 1: https://youtu.be/7dg83pjg2J4?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 2: https://youtu.be/0wTBhaBvv3c?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 3:https://youtu.be/__tWfGJJ2IU?list=PLcQbSlMr-VBIYI__fjZRvVkuAbuh_5RHe
- Part 4:https://youtu.be/Fp4McHKsNPU?list=PLcQbSlMr-VBIYI_fjZRvVkuAbuh_5RHe
- Part 5: https://youtu.be/Zy22qDi3Xxo?list=PLcQbSlMr-VBIYI fjZRvVkuAbuh_5RHe

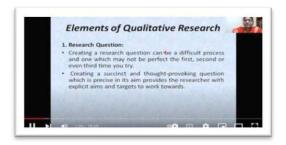
2. Dr. K. Ramya, Assistant Professor of Physics, AITS, Tirupati.

Resource Person:

Multilingual Refresher Course/FDP on Research Methodology, Organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 23rd October to 06th November, 2021.



Qualitative Research:



Part 1: https://youtu.be/X2s7zmZ4gyw

Part 2: https://youtu.be/DQQD4NFGbxI

Part 3: https://youtu.be/hqkp01MszOI

Research Philosophy and types:

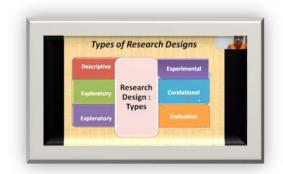


Part 1: https://youtu.be/kMPhUJ45bKY

Part 2: https://youtu.be/1RCgpXj-EKE

Part 3: https://youtu.be/ce6UNEKcLbE

Research Design:



Part 1: https://youtu.be/R6yu3XpqMJY

Part 2: https://youtu.be/yq1kjG0h0H4

Part 3: https://youtu.be/Ps9F2yhsYVA

Part 4: https://youtu.be/A1mpNfv35Ro

3. Dr. K. Ramya, Assistant Professor of Physics, AITS, Tirupati.

Resource Person:



Eminent speaker for the National Webinar "Effect of Ultraviolet rays and its Consequence on Human Life" organized by Department of Physics on 24th February 2021 by Government College, Harsud District, Khandwa (M. P).

ii) Nptel text translator:

Translated the content of the following course content (Text and audio) in to Telugu language:

1. Human Molecular Genetics : IIT Kanpur

III Kanpui

2. Introduction to Electromagnetism: IIT Kanpur

DEPARTMENT OF CIVIL ENGINEERING



A.Anil, M. Tech, (Ph. D) HOD of Civil Department

The Civil Engineering Department is one of the lead departments in the institute and was established in 2009. The initial journey was started with a U.G. Program (B. Tech in Civil Engineering) with initial intake of 60 seats and later it has been increased to 120 seats. Later, the department started a P.G. Program (M. Tech in Structural Engineering) in the year 2013 with an intake of 24 seats. With the eminent faculty and well-acquainted facilities, extensive research work is going on in the various disciplines of Civil Engineering.

VISION:

To achieve excellence in the field of Civil engineering with professional competency.

MISSION:

- Provide congenial learning-teaching process for holistic development.
- Upgrade the facilities to meet curriculum needs.
- Conduct Industry-Institute interactions to educate learners.
- Enhance the research to meet the societal needs.

FACULTY DETAILS:

The department of Civil Engineering has highly qualified, experienced faculty members from various streams whose knowledge shapes a student's leadership skills. Department of Civil Engineering has faculty of 35 members, 2 Professors, 2 Associate professors and 31 Assistant professors. Faculty members have widely recognised for their research, case development and industrial contacts which help students to teach regarding practical aspects.

FACULTY DETAILS:

Total No. of faculty: 31

S. No	Faculty	Members
1.	Professors	02
2.	Associate Professor	02
3.	Assistant Professor	31

HOD'S PROFILE:



A.Anil, M. Tech, (Ph.D) HOD of Civil Department

Sri. A. Anil is doing his Ph. D in Water resources engineering from JNTUA, Ananthapuramu, did his Masters from S.V. University, Tirupati with a specialization in Hydraulics and Water resources Engineering and Bachelor degree in civil engineering from N.B.K.R.I.S.T, Vidyanagar. He started his teaching career is 2012. He was ratified by JNTUA, Ananthapuramu as Assistant professor. His attentiveness lies in remote sensing and GIS applications, Qualitative and Quantitative analysis of water, Expansion of Usage of sensors in water resources. He has published 10 research papers in international journals and attended 15 conferences. He is having professional memberships like IWRA, IAHR, ISRD and IAENG. He has contributed a lot for the academics and extended the services towards admissions, Placements, college activities and organising events. He assumed office of the head of the civil engineering department on July 2021.

HOD'S MESSAGE:

An affectionate welcome to the Civil Engineering discipline. It is the second-oldest

engineering discipline after Military Engineering. Civil Engineering is a professional

engineering discipline that deals with the design, construction and maintenance of physically

built works like roads, bridges, canals, dams and buildings.

There are many career paths for civil engineers. Civil engineers are essential in government

agencies, private and public sector undertakings to take up various mega projects like metro

railway projects, express highway corridors, industrial structures, reservoir projects, flyovers,

townships and mega city projects. Today, the world is undergoing vast changes in

technological revolution, population growth and environmental concerns. All these changes

create unique challenges for civil engineers.

The Department of Civil Engineering with its multifaceted faculty maintains its strong links

with the construction industry by engaging in consultancy activities. The students here are

encouraged to engage extra-curricular and co-curricular activities which are essential for

personality development, nurturing of team spirit and development of organizational skills.

A.Anil, M. Tech, (Ph.D) HOD of Civil Department

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DEPARTMENTAL LABS

STRENGTH OF MATERIALS LAB (SM LAB):

Demonstrating the basic principles in the area of strength and mechanics of materials and structural analysis to the undergraduate students through a series of experiments is the objective of the strength of materials lab. Measuring the properties of the materials such as impact strength, tensile strength, compressive strength, hardness, ductility are conducted in the lab.







Strength of Materials Lab

SURVEYING LAB:

Surveying lab (CE 261) introduces the three basic surveying tools – the tape, level, and transit/theodolite –along with proper field procedures for basic surveying. These include taking field notes, taping and EDM, leveling, bearings and azimuths, topography, and mapping.





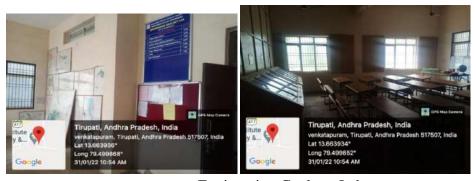




Surveying Lab

ENGINEERING GEOLOGY LAB:

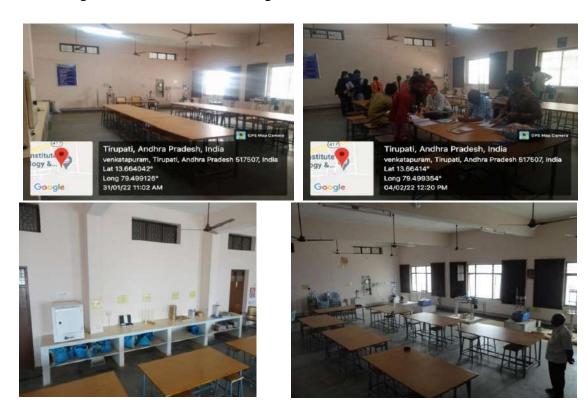
Rock identification, rock types and the rock cycle. Structural features of sedimentary rocks (including mapping on aerial photographs, geologic map interpretation, and geologic cross sections) Plate tectonics. Geologic interpretation of topo maps, aerial photos, and satellite images.



Engineering Geology Lab

GEOTECHNICAL LAB

Properties of the soil can be determined by both field and laboratory test methods. It is critical to quantify the various properties of soil in order to predict its behaviour under different loading conditions for the safe design of structures.



Geotechnical Lab

5. CONCRETE TECHNOLOGY LAB:

Concrete Technology Laboratory provides facilities to conduct all quality control tests on cement, aggregates and concrete (Fresh and hardened). Students learn the standard procedure to test the quality of building materials in line with the corresponding IS codes.



Concrete Technology Lab

6.TRANSPORTATION LAB

The Transportation Engineering lab has equipment required to conduct all standardized tests to assess quality of highway materials, pavement evaluation and traffic engineering studies. The lab is used for collaborative research in traffic engineering and transport planning.



Transportation Engineering Lab

7. ENVIRONMENTAL ENGINEERING LAB

Environmental engineering involves water supply, pollution control, recycling, waste (solid and liquid) disposal, radiation protection, industrial hygiene, environmental sustainability, and public health. This manual mainly deals with the determination of physio-chemical and bacteriological properties of water.



Environmental Engineering Lab

PH.D.'S AWARDED:

1. Name of the faculty : G Veeraswamy

Research Guide : **Prof.** A. Nagaraju, S V University, Tirupati

Affiliation : S V University, Tirupati

Title : Remote Sensing and Water Quality Studies of Gudur area,

Nellore District, Andhra Pradesh, South India

Awarded : 2019

2. Name of the faculty : P Abhilash

Research Guide : **Prof.** C Sasidhar. JNTU Ananthapur.

Affiliation : JNTU Ananthapur

Title : Development and Evaluation of Low Cost Normal

Strength Geopolymer Concrete

Awarded : 2018

BOOKS:

Name of the Faculty: Dr. J Guru Jawahar, Professor, AITS, Tirupati.

Title : DEVELOPMENT & EVALUATION OF NORMAL

STRENGTH SELF COMPACTING CONCRETE

Publishers : LAMBERT,

Year of Publication: 2020







PATENTS

1. <u>Title</u>: AN EARTHQUAKE-RESISTANT PRECAST BEAM-COLUMN CONNECTION USING CLEAT ANGLE AND REPLACEABLE DISSIPATERS

Authors: Dr.K. Thulasirajan, Assoc. Prof.

Field of Invention: Structural Engineering

Publication Date: 03/11/2021

The Patent Office Journal No. Australia, 2021106172



2. <u>Title</u>: SELF-SENSING REINFORCED CONCRETE AND STRUCTURAL HEALTH MONITORING THE SAME

Authors: Dr. J. Guru Jawahar. Professor

Field of Invention: Structural Engineering

Publication Date: 21/01/2022

The Patent Office Journal No. India, 202141058280

(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of filing of Application (14/12/2021		(21) Application No.202141058280 A (43) Publication Date : 21/01/2022	
(54) Title of the inven	tion : SELF-SENSING REINFORCED C	CONCRETE AND STRUCTURAL HEALTH MONITORING USING	
C513 International educational related frontion mad Application No. Priling Date (197) Filing Date (197) Filing Date (197) Application Number (197) Filing Date (197) Filing Part (197) Filing P	COMBOSRISTORO, COT MOOSTOROOO, COT MOOSTOROOO, COT MOOSTOROOO, COT MOOSTOROOO, COT MOOSTOROOO, COT MOOSTOROOO, COT MOOSTOROOOO, COT MOOSTOROOOO, COT MOOSTOROOOO, COT MOOSTOROOOO, COT MOOSTOROOOO, COT MOOSTOROOOOO, COT MO	71) Name of Applicant 1 DDr. C.AFvind Killian Address of Applicant Assistant Professor Civil engineering Matrias Body Professor Civil Engineering Address of Applicant Assistant Professor Civil engineering Matrias 3DDr. Freshik Kulkarni 4DDr. Forthik Kulkarni 4DDr. B.V. Kavyetheir 8DDr. B.V. Kavyetheir 8DDr. B.V. Kavyetheir 8DDr. B.V. Kavyetheir 9DDr. B.V. Kavyetheir 1DDr. C.Arvind Kullar 1DDr. A. Glavetheir 1DDr. B. Green Advinced Company (1998) 1DDr. J. Gare dawnbar 1DDr. J. Gare dawnbar 1DDr. J. Gare dawnbar 1DDr. C. Faskildher 1DDr. Faskildher 1	
sensing rate forced concertibers (102) have proper (104) of OPC -43 grade, and bulk density of 1609 wherein the surfactant (1 Pedgeartowylk wher (19 surfactant (110), and the	one (100), the concrete (100) comprising; rate the such as electrical resintivity or 1.5% (10-3) wherein the concent (104) has a specific gravit (10) is Sodium Dredecyl Herisene Suffrinc sail (10) is Sodium Dredecyl Herisene Suffrinc sail (E)) and wherein the micro-carbon fibers (105) superplacticizer (12) may be mixed in water	URAL HEALTH MONITORING USING THE SAME AUSTRACT A self- recarbon fiber (102) with 95 % carbon content, wherein the minor outlien (193) and the most outlier of the self- sy of 3.12 kg/litre; fine aggregate (106) with a specific gravity of 2.63 kg/m3 a gravity of 2.82 kg/m3 and hold almostly of 1523 kg/m3, architectur (105), a gravity of 2.82 kg/m3 and hold almostly of 1523 kg/m3, architectur (105), (105) commit (104), the fine aggregates (100), the course aggregates (100), the (114) commit (104), the fine aggregates (100), the course aggregates (100), the	
No. of Pages : 29 No.	of Claims : 10		
	The Patent Office Journal	No. 93/2022 Dated 21/01/2022 306	

3. <u>Title</u>: SUSTAINABLE TRANSLUCENT LIGHT EMITTING CONCRETE WITH OPTICAL FIBERS AND PREPARATION THEREOF

Authors: T Sai Krishna, Asst. Professor

Field of Invention: Structural Engineering

Publication Date: February, 2022

The Patent Office Journal No. India, 202241004387



HIGHLY REPUTED JOURNALS

1. <u>Name of the faculty</u>: G Veeraswamy, Assist. Prof and T Sai Krishna, Assist. Prof,AITS, Tirupati.

Journal Name : Elsevier

<u>Title:</u> Delineation of groundwater potential zones in semi-aridregion (Ananatapuram) using geospatial techniques.

Publication details : February 2021.

ABSTRACT:



2. Name of the faculty : Dr. K Thulasi Rajan, Assoc. Prof, AITS, Tirupati.

Journal Name : Springer

Title : Characterization of Fly Ash Sources in the Synthesis of

Geopolymer".

Publication details : March 2021.

ABSTRACT:



3. Name of the faculty : Dr. J Guru Jawahar , Assoc. Prof , AITS, Tirupati.

Journal Name : Springer

Title : Effect of alcofine and fly ash on analytical methods of

Self-compacting concrete"

Publication details : July 2020.

ABSTRACT

Innovative Infrastructure Solutions (2020) 5:80 https://doi.org/10.1007/s41062-020-00332-9

TECHNICAL PAPER



Effect of alccofine and fly ash on analytical methods of self-compacting concrete

Bode Venkata Kavyateja 100 - J. Guru Jawahar 2 - C. Sashidhar 1

Received: 8 April 2020 / Accepted: 25 June 2020 © Springer Nature Switzerland AG 2020

Abstract
Cement is the most significant component in concrete. Large-scale manufacturing of cement consumes more energy and releases harmful products (carbon dioxide) into the atmosphere, adversely affecting the environment and depleting natural resources. A lot of research is going on globally, concentrating on the recycling and reuse of waste materials from many industries. A significant share of research is focused on finding cementitious materials alternatives to ordinary Portland cement. Many industrial waste by-products, such as quartz powder, metakaolin, ground granulated blast furnace stag, silica fume, and fly ash, are under investigation for replacement of cement in concrete to minimize greenhouse gases and improve the sustainable construction. In this research, the effect of a new material, i.e., alcoofine as a partial replacement (i.e., 0%, 5%, 10%, and 15%) and constant fly ash dosage (i.e., 25%) on thermogravimetric analysis, X-ray diffraction analysis, Fourier transform infrared spectroscopy, scanning electronic microscopy analysis on concrete were studied. Adding alcoofine and fly ash showed a significant improvement on the analytical methods of self-compacting concrete.

Keywords Self-compaction concrete · Thermogravimetric analysis · Fourier transform infrared spectroscopy · XRD analysis · SEM analysis

4. Name of the faculty : Dr. J Guru Jawahar , Assoc. Prof , AITS, Tirupati.

Journal Name : ASCE

Title : Effect of Copper Slag on Micro, Macro, and Flexural

Characteristics of Geopolymer Concrete".

Publication details : 2020.

ABSTRACT





Effect of Copper Slag on Micro, Macro, and Flexural Characteristics of Geopolymer Concrete

C. Sreenivasulu¹; J. Guru Jawahar, Ph.D.²; and C. Sashidhar, Ph.D.³

Abstract: The present investigation is mainly focused on the effect of copper slag (CS) on micro, macro, and flexural characteristics of geopolymer concrete (GPC). In this study, copper slag was used as a partial replacement of fine aggregates at different levels (0%, 20%, 40%, and 60%) by weight. Fly ash and ground granulated blast furnace slag (GGBS) were used as binders and a combination of sodium hydroxide (8 M) and sodium silicate solution were used for activating the binders. Scanning electron microscopy (SEM) and energy-dispersive X-ray spectroscopy (EDS) analyses were conducted to examine the microstructure of the GPC. In macrolevel studies, a compressive strength of GPC was determined, and prediction models were developed to assess the compressive strength using nondestructive testing (NDT) techniques. The load and moment characteristics of reinforced geopolymer concrete (RGPC) beams were also studied. From the results, it is concluded that the incorporation of CS shows better performance in the micro, macro, and flexural properties of GPC. DOI: 10.1061/(ASCE) MT.1943-5533.0003157. © 2020 American Society of Civil Engineers.

Author keywords: Geopolymer concrete; Copper slag; Microlevel and macrolevel properties; Nondestructive testing (NDT) techniques; Proposed models.

5. Name of the faculty: Dr. J Guru Jawahar, Assoc. Prof, AITS, Tirupati.

Journal Name : Elseveir

Title : Effectiveness of alcoofine and fly ash on mechanical properties of

ternary blended self compacting concrete.

Publication details: March 2020.

ABSTRACT:

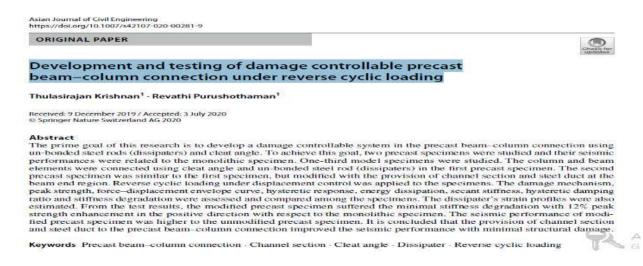


6. Name of the faculty : Dr.Dr.KThulasiRajan, Assoc. Prof , AITS, Tirupati.

Journal Name : Springer

<u>Title</u> : "Development and testing of damage controllable precast beam—column connection under reverse cyclic loading."

Publication details : July 2020.



7. Name of the faculty: G Veeraswamy and Asst. Prof, K Narasimhulu Asst. Prof, AITS, Tirupati.

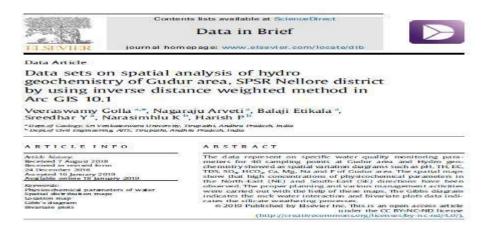
Journal Name: Elseveir

Title : Data sets on spatial analysis of hydro geochemistry of Gudur area, SPSR

Nellore district by using inverse distance weighted method in Arc GIS 10.1"

Publication details: January 2019.

ABSTRACT



LIST OF PUBLICATIONS:

Research is an ongoing process forever in the Civil department. Apart from above publications, around 69 papers were published in UGC journals during the period. Many papers are under progress or acceptance list.

YEAR	TOTAL PUBLICATIONS
2019	12
2020	14
2021	43

FACULTY MEMBERSHIP DETAILS:

S.No	Faculty Name	Designation	Membership
1.	A.Anil	HOD	IAENG (International Association of Engineers) IWRA (International Water Resources Association) IAHR (The International Association for Hydro-Environment Engineering and Research) ISRD (International Society for Research & Development)
2.	Dr.J Guru Jawahar	Professor	IAENG (International Association of Engineers) MISTE (Member of Indian Society for Technical Education.) ISTE (Indian Society for Technical Education)
3.	Dr.KThulasirajan	Associate Professor	ICI (Indian Concrete Institue)
4	S. Sameer	Assistant Professor	IAENG (International Association of Engineers) ISRD (International Society for Research & Development
5.	T Sai Krishna	Assistant Professor	ISTE (Ihe Indian Society for Technical Education)
6	D Nirosha	Assistant Professor	IAENG (International Association of Engineers)
7	P. Vishnu Priya	Assistant Professor	IAENG (International Association of Engineers)

FACULTY ACHIEVEMENTS:

1. Dr J Guru Jawahar, Professor, AITS, Tirupati.

Resource Person:

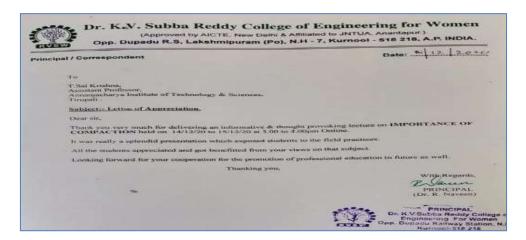
Guest lecture on "**Self Compacting Concrete**" **at** Sree Rama Engineering College, Tirupati on 18th May 2021



2. T Sai Krishna, Assistant Professor, AITS Tirupati.

Resource Person:

Delivered an informative and thought providing lecture on **Importance of Compaction**at Dr K V Subba Reddy College of Engineering for Women, Kurnool on 14th and 15th December 2020.



3. Dr. K ThulasiRajan, Associate Professor, AITS, Tirupati

Resource Person:

Delivered a lecture on "**Corrosion in Concrete**" at Kongunda College of Engineering & Technology, Tiruchy on 17th June 2020.



4. Dr J Guru Jawahar Professor, AITS, Tirupati.

Resource Person:

Faculty Development Program on Emerging Trends in Infrastructure and Structural Engineering (ETISE-2020) at MarriLaxman Reddy Institute of Technology & Management, Autonomous, Hyderabadfor a guest talk on "**Development ofSelf Compacting Concrete**" on 2nd June 2020.



EDUCATIONAL CHANNELS:

YOUTUBE:

K. Sai Abhinav, Asst. Prof, AITS, Tirupati.

YouTube channel "20PH0122 SAI ABHINAV" which helps students to gain knowledge regarding Structure Analysis subject. In an age of technology, learning is no longer restricted to lecture halls and textbooks. Videos have now become a frequently used method of teaching, providing students with interactive content that makes learning more fun.

Channel Link - https://www.youtube.com/channel/UCG3o_V6LNGPx5bcVvjCXAyw



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)



Dr.R.Murugesan, HOD of EEE Dept

The Department of Electrical and Electronics Engineering offers B.Tech Degree program in Electrical and Electronics Engineering, M.Tech Degree program in Power Systems. The department is equipped with state-of-the-art laboratories like Electrical machines, Electrical workshop, Power Electronics lab, Measurements & Instrumentation, Power system simulation Lab with software like MATLAB, MagNet, Labview, PSpice, PSIM, PSCAD and Ansys. The Department has excellent track records right from its year of introduction in 2007 both in placements and examination results. Keeping in mind that Electrical Engineers work in the forefront and enable most of all existing technologies, EEE Department interacts and liaises with well-reputed industries to facilitate training of the students through internship programs, Industrial visits, workshops and seminars.

In order to provide a holistic development to the students, EEE Department has a vibrant student association named FETA. Seminars, Quiz Programs, Industrial Visits, Paper Contests, Group Discussions, Guest Lectures, Career Guidance etc., have been conducted through FETA.

VISION:

To achieve Excellence in the field of Electrical & Electronics Engineering with Professional Competency.

MISSION:

- Provide an effective Learning-Teaching environment to acquire skills and knowledge in the field of Electrical & Electronics Engineering.
- •Upgrade the state of the art resources to meet the curriculum needs.
- •Strengthen industry institute interaction to enable the students work on real time problems.
- •Encourage Multi-disciplinary activities through research and continuous learning activities to serve the society.

FACULTY DETAILS:

Total No. of faculty: 28

S.No	Faculty	Members
1	Professor	03
2	Assistant professor	25

HOD'S PROFILE:



Dr.R.Murugesan,
HOD of EEE Department

Dr. R. Murugesan graduated from University of Madras in Electrical & Electronics Engineering in the year 1998. His Post-graduation Degree of M.Tech was obtained in Applied electronics in the year 2009 from Dr. MGR University.

He was awarded Ph.D in the year 2018 by St.Peter's University. Started his career as Junior Engineer in 1998, he has worked in Electrical projects of National importance.

He stepped into the humble profession of teaching in the year 2009 after more than a decade of Industrial service at various levels. Serving in various designations starting from Lecturer, then to Assistant Professor and Associate Professor, he had taught a spectrum of subjects to both UG and PG level engineering students. The broad area of his research includes Renewable energy, induction motors, cascaded inverters and Li-ion batteries for Electric vehicles. He has published 32 research papers in International and national Level publications.

HOD'S MESSAGE

AITS has a rich tradition, its growth and development rests on shoulders of its stakeholders.

Students are a great asset to the College as much as College is to them. Providing ample

opportunities in engineering education is one of the most fundamental obligations we owe to

our students because, AITS is driven by the belief that every student deserves a high-quality

education. Our department, also in line with the same thought, grabs all the opportunities

provided, to give a sound education to students and teach them to uphold values at all times

and at all costs.

Nurturing creativity and inspiring innovation are two of the key elements of a successful

education, and a college magazine is the perfect amalgamation of both. A College magazine

provides a platform of great challenge and great opportunity for the faculty and students to

review their efforts and to analyze their holistic achievements. I am quite pleased to learn

about the forthcoming issue of the college magazine.

Putting a magazine together is not a cake walk. The extended hours of work, sincerity in

collection of data, planning the positive projection of achievements, drafting an

understandable and meaningful flow of contents and special insights with fellow beings

required for the editorial members, are qualities that can be exhibited only by the best of the

best. I do appreciate and applaud the editorial team for their successful completion of this

tedious yet daunting task of putting together the myriad thoughts and dreams of our students

and faculty into a meaningful and delightful visual feat by way of college magazine. I

express my considerable appreciation to all the authors of the articles in this magazine. These

contributions have required a generous amount of time and effort. I wish it all success and

hope that this tradition will be carried through by the following generations to come.

Dr.R.Murugesan,

HOD of EEE Department

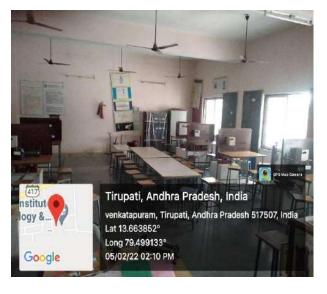
58

DEPARTMENTAL LABS

ELECTRICAL MACHINES -1 and 2

An **electric motor** is an electrical machine that converts electrical energy into mechanical energy. The reverse of this is the conversion of mechanical energy into electrical energy and is done by an electric generator, which has much in common with a motor. When classifying electric machines (motors and generators) it is reasonable to start with physical principle for converting electric energy to mechanical energy. Motors and generators have many similarities and many types of electric motors can be run as generators, and vice versa. Electric motors are found in applications as diverse as industrial fans, blowers and pumps, machine tools, household appliances, power tools, and disk drives. They may be powered by direct current or by alternating current which leads to the two main classifications: AC motors and DC motors.

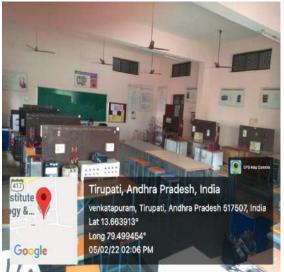
Electrical Machines Laboratory facilities with Electric machines such as dc motors and generator sets. This laboratory provides university-level students with a test bed to learn and practice fundamental concepts of the electrical machines and the students able to know about the performances and characteristics of the machines. This laboratory also facilitates students about to design and analysis which can later be implemented in real-time applications using Real-time Workshop.

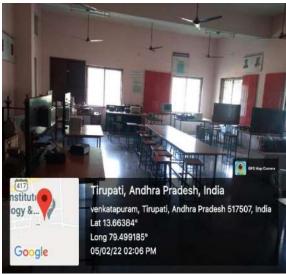












Electrical Machines -1 and 2 labs

POWER ELECTRONICS AND CONTROL SYSTEMS LABS

POWER ELECTRONICS LAB:

The **power electronics lab** enhances the EEE students by providing them the better understanding of the concepts and working of advanced power semiconductor devices and power electronics circuits. Power electronics is a broad area. Experts in the field find a need for knowledge in advanced circuit theory, electric power equipment, electromagnetic design, radiation, semiconductor physics and processing, analog and digital circuit design, control systems, and a tremendous range of sub-areas.

CONTROL SYSTEMS LAB:

This laboratory provides university-level students with a test bed to learn and practice fundamental concepts of control systems. Control Systems Laboratory presents facilities of computing and simulation through MATLAB and demonstration on FEEDBACK designed equipment with PCI cards creating an impressive digital control system development environment. MATLAB is a 'higher-level' technical computing language that provides a platform for algorithm development, data analysis, data visualization, etc. Together with SIMULINK and additional toolboxes it facilitates control system design and analysis, which can later be implemented in real-time applications using Real-time Workshop.







CIRCUITS AND POWER SYSTEMS LABS:

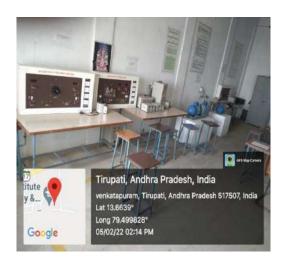
CIRCUITS LAB:

This is basic subject for every electrical engineer. Students conduct experiments on DC circuits and AC circuits and verify different theorems by practically.

POWER SYSTEMS AND SIMULATION LAB:

In this lab the students conduct experiments on fault analysis and sequence impedances and simulation experiments done by MATLAB









Circuits and Power systems labs

PH.D. AWARDED:

Name of the faculty: Mr. N. BALAJI NANDA KUMAR REDDY

Research Guide : DR.V.C.VEERA REDDY, DEPARTMENT of Electrical and

Electronics Engineering, Rayalaseem University, Kurnool

Title : POWER QUALITY IMPROVEMENT BY USING STATCOM

Awarded : 15th February 2020

BOOKS:

Name of the Faculty : Dr. R.Murugesan, Head of the Department EEE, AITS,

Tirupati.

Title : MACHINE LEARNING AND APPLICATIONS

Chapter Written by faculty : ML in grid connected PV

Authors : Dr.T.R.Ganesh Babu

Publishers: Deepthi press OPC private limited,

Year of Publication : 2019

PUBLICATIONS

1. Name of the faculty: 1.Dr. C. SASIKALA, HOD of EEE department AITS, Tirupati

2. Y.VIJAYA SHAMBHAVI, Assistant professor EEE department

AITS, Tirupati

Title: INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) OF SMART GRID

Name of the Journal: Journal of Electrical Systems.

2. Name of the faculty: Dr. R. MURUGESAN associate professor of EEE AITS, Tirupati Title: CASCADED MULTI LEVEL INVERTER WITH APOD BASED PV SYSTEM FOR INDUCTION MOTOR USING DTFC CONTROL

Name of the Journal: International Conference on Civil Engineering and Material Science

3. Name of the faculty: Dr. R. MURUGESAN associate professor of EEE department AITS Tirupati.

Title: **AREA EFFICIENT RECONFIGURABLE BUFFER FOR NOC ROUTER**Name of the Journal: International Conference on Civil Engineering and Material Science

4. Name of the faculty: 1.K.KARTHIK assistant of EEE department AITS Tirupati
2. P.SREENIVASULU assistant of EEE department AITS tirupati

Title: ANALYSIS AND MINIMIZATION OF NEGATIVE SEQUENCE CURRENTS IN HIGH SPEED TRACTION SYSTEM WITH RAILWAY POWER CONDITIONER

Name of the Journal: Journal of Electrical Systems

5. Name of the faculty: Dr. R. MURUGESAN, HOD of EEE, AITS, Tirupati.

Title: MACHINE LEARNING BASED OPTIMIZATION TECHNIQUE FOR FORECASTING THE SOLAR RADIATION

Name of the Journal : Institute of Physics

4. Name of the faculty: Dr.K.BALAJI NANDA KUMAR REDDY, Associate professor of

EEE department AITS, Tirupati

Title: HYBRID OPTIMIZATION TECHNIQUES FOR ANALYZING THE PERFORMANCE OF TRANSMISSION SYSTEM USING NOVEL SVC

Name of the Journal: International Journal of Electrical and Electronic Engineering

5. Name of the faculty: **Dr. R. MURUGESAN HOD** of EEE, AITS, Tirupati.

Title: PHOTOVOLTAIC SYSTEM MAXIMUM POWER POINT TRACKING

BASED ON REINFORCEMENT LEARNING

Name of the Journal: SPRINGER

EDUCATIONAL CHANNELS:

YOUTUBE:

KM. SanjeevaKumar, Asst.Prof, AITS, Tirupati.

In an age of technology, learning is no longer restricted to lecture halls and textbooks. Videos have now become a frequently used method of teaching, providing students with interactive content that makes learning more fun. This channel helps to UG, PG and PhD students on how to do projects on MATLAB.

Channel Link - https://youtube.com/channel/UCViXr5YC27T8z3ufrWen0gw

DEPARTMENT OF

MECHANICAL ENGINEERING



M.Balaji, M.Tech, (Ph.D HOD of MI

The Mechanical Engineering Department is one of the lead departments in the institute and was established in 2010. The initial journey was started with a U.G. Program (B. Tech in Mechanical Engineering) with initial intake of 60 seats and later it has been increased to 120 seats. Later, the department started a P.G. Program (M. Tech in Production Engineering & Engineering Design) in the year 2014 with an intake of 18 seats. With the eminent faculty and well-acquainted facilities, extensiveresearch work is going on in the disciplines of Mechanical Engineering.

VISION:

To achieve Excellence in the field of Mechanical Engineering with Professional Competency.

MISSION:

- Strict adherence to the curriculum requirements for the overall development of learners.
- Improve the facilities to meet the mechanical engineering programme needs.
- Best utilize Industry Institute linkages to acquire professional competency.
- Encourage Innovative Research to address new challenges and improve social requirements

Faculty Details:

Total No. of faculty: 23

S.No.	Faculty	Members
1.	Professor	1
2.	Associate Professors	2
3	Assistant Professors	20

HOD'S PROFILE:



HOD of ME

Sri. M. Balaji is doing his Ph. D in I.C Engines from JNTUA, Ananthapuramu, did his Masters from JNTUA University, Anantapur with a specialization in Advanced I.C. Engines and Bachelor degree in Mechanical Engineering from SVCET, Chittoor. He started his teaching career is 2008. He was ratified by JNTUA, Ananthapuramu as Assistant professor. His attentiveness lies in CFD and I.C. Engines. He has published 12 research papers in international journals and attended 25 conferences. He is having professional memberships like ISRD and IAENG. He has contributed a lot for the academics and extended the services towards admissions, Placements, college activities and organising events. He assumed office of the head of the Mechanical Engineering department on August2019.

HOD'S MESSAGE:

Welcome to the Department of Mechanical Engineering at AITS Tirupati. We started our journey in the year of 2010 with mechanical stream. Over the past decade, we have grown our expertise and competence in the IT enabled Design, Production and Manufacturing centred Mechanical Engineering curriculum and research.

We have strong undergraduate program and post graduate program in Mechanical engineering, At the postgraduate level, we have Production Engineering & Engineering Design (PE&ED). The sanctioned strength for B. Tech is 120 students and for M. Tech., is 24. Mechanical Engineering is a professional Core engineering discipline that deals with the design, production and maintenance of any produce of any industry. The pride of every student and staff would be in his/her department and college.

Our department has a team of highly qualified and experienced faculty, good infrastructure and lab facilities. We are striving hard continuously to improve upon the quality of education and to maintain its position of leadership in engineering and technology. We always work with the motto "Nothing can be achieved without genuine effort." The core values of the department help the students to develop their overall personality and make them worthy to compete and work at global level. Our faculty are continuously attending various training programs, publishing research papers, books and filing patents. Many are pursuing research. Our department has been conducting seminar / conferences to keep the faculty and students abreast with the latest developments in the field of technical education. We are happy to share that many students are pursuing higher studies in leading universities in India and abroad. I am certain that our students will prove to be an invaluable asset to an organization.

M. Balaji, M.Tech, (Ph.D) HOD of ME

DEPARTMENTAL LABS

THERMAL ENGINEERING LAB:

The TE Lab was equipped to perform the tests on Two stroke single cylinder petrol engine model cut off, Four Stroke single cylinder Diesel Engine (Mechanical Brake Drum Loading), Two Stroke single cylinder Petrol Engine (AC Generator Loading), Four stroke three cylinder petrol engine (Mechanical Brake Drum Loading), Four stroke Diesel engine cut off model, Two stage air compressor.



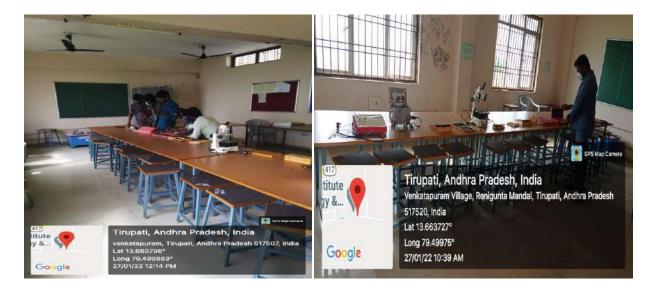
CAD/CAM LAB:

This laboratory works for Design and Drafting for Engineering Applications with CAD Tools like Catia, Ansis,Nx Cad, and Pro E.



METROLOGY AND MEASUREMENTS LAB:

In the MMT Lab the experiments are performed by the following equipments-mechanical Vanier calliper, digital Vanier calliper, digital outside micrometer, jaw type inside micrometer, gear tooth Vanier calliper, sine bar, Granit & surface plate with stand, bevel protractor, tool makers microscope with all standard accessories, surface grinding machine, slotting machine, cylindrical grinding machine.



FLUID MECHANICS AND HYDRAULIC MACHINES LAB:

TheFMHM lab was performed by the following experiments- Discharge Coefficient of Venturimeter(Calibration of Venturimeter), Overall efficiency of the Single – Stage Centrifugal Pump, Overall efficiency of the Reciprocating Pump, Overall efficiency of the Multi – Stage Centrifugal Pump, Overall efficiency of the Reciprocating Pump, Coefficient of Impact on Flat Vane & Hemispherical Vane, Friction Factor in different diameter of the GI pipes, Loss of head due to sudden contraction in a pipe, Overall efficiency of the Pelton wheel, Overall efficiency of the Francis Turbine.



MACHINE TOOLS:

The MT lab is equipped with the Machines like Lathe, Surface grinding machine, Drilling machine, Tool cutter, Shaping machine, Slotting machine for the machining of the materials like Wood, Mild steel, Aluminium, and PVC pipes.



ENGINEERING WORKSHOP:

The WS Lab is arranged with the 4 Basic Operations of Carpentry, Fitting, Sheet metal, wiring working on the materials of Wood, Metal, G.I Sheet, Cable wires respectively for Understanding the Basic Knowledge of Sheet metal Cutting, wood Sawing, House hold wiring, and metal Fitting.



MANUFACTURING TECHNOLOGY MFT:

The Lab is equipped with the Following machineries of Welding machine, Universal Testing Machine, Hydraulic pressure machine for the operations of Gas, Tig&Spot welding, Tensile and Compressive test. Some other operations like Blanking, Injection Molding, Permeability, Sand molding, Blow molding, Melting and Casting of Aluminium, Bi- Cycle & Bike – Assembling and Dissembling are also performed.



MATERIAL SCIENCE AND ENGINEERING:

The Experiments are performed by the following Equipments- Binocular Microscope, Hydraulic Semi-Automatic Specimen Mounting Press, Belt Surface Grinder, Double disc Polisher, Hand Polishing Stand, Heat Treatment Furnace, Jominy End Quench Apparatus, Specimen Cut-off Machine.



HEAT TRANSFER LAB:

The Experiments are performed on Thermal Conductivity of Insulating Powder, Test on Heat Transfer through Composite Wall, Heat Transfer coefficient in Natural Convection, Heat Transfer in Pin – Fin, Heat Transfer coefficient in Forced Convection, Emissivity of a Gray Body through Emissivity Apparatus, Experiment on Parallel and Counter flow Heat Exchanger, Experiment on Stefan Boltzmann Apparatus, Thermal Conductivity of Metal Bar, Heat flow through Lagged Pipe.



Ph.D. awarded

Name of the faculty: M. Chaitanya Reddy

Research Guide: **Prof.K. Venkata Rao,** Vignan Deemed to be University.

Title : An Experimental Investigation on Effect of Auxiliary Electrode on Power

Consumption and Machining Characteristics in WEDM of AlSi Alloy.

Awarded : <u>2021</u>

PUBLICATIONS

HIGHLY REPUTED JOURNALS:

Name of the faculty : J. Venumurali, Asst. Professor, AITS, Tirupati.

Journal Name : Materials Today : Elsevier

Volume 52, Part 5, Pages 2345-2562

DOI : www.elsevier.com/locate/matpr

<u>Title:</u>Study on fabrication and mechanical characterization of aluminium hybrid nanocomposites

Authors: C. Ramakoteswararao^{a*}, P. Venkataramaiah^a, J. Venumurali^b

ABSTRACT:

This work focussed on fabrication and mechanical characterization of AA8011 alloy based hybrid nanocomposites prepared via stir casting route. The effect of relative fractions of Al2O3 and B4C nanoparticles of average particles size of < 50 nm and < 60 nm respectively in three blends of the composites viz.,AA8011 + 1.0 wt% Al2O3 + 2.0 wt% B4C (Hybrid-a), AA8011 + 1.5 wt% Al2O3 + 1.5 wt% B4C (Hybrid-b) andAA8011 + 2.0 wt% Al2O3 + 1.0 wt% B4C (Hybrid-c) on crystallite size, microstructure, micro hardness, impact and tensile properties is investigated. The remarkable decrease in crystallite size observed in Hybrid-c in comparison to other two composite blends after XRD analysis. The significant improvement in hardness and tensile strength exhibited by the hybrid nano composites over the AA8011 alloy matrix, maximum of these values were possessed by Hybrid-c in this study. After the notch impact tests by Charpy and Izod, the Hybrid-c with AA8011 + 2.0 wt% Al2O3 + 1.0 wt% B4C blend exhibited higher values but not shown much difference in comparison to Hybrid-b and Hybrid-a. From this work it comes to know that the synthesized hybrid nanocomposites have shown excellent mechanical properties for the case of structural applications seeking high performance.

Publications:

1. Name of the Faculty :1. **S. Siva Sankar,** Assistant Professor, AITS, Tirupati.

2. M. Vijay Kumar Reddy, Assistant Professor, AITS, Tirupati.

Journal Name : International Journal of Engineering and Advanced Technology

(IJEAT)

Title : Experimental Investigation and Optimization of EDM Process

parameters on Al6061 by using TOPSIS and comparison with Genetic

Algorithm

Volume number and details : ISSN: 2249 – 8958, Volume-8, Issue-2S2, January 2019

2. Name of the Faculty : 1. **B. Sreehari,** Assistant Professor, AITS, Tirupati.

2. M. Vijay Kumar Reddy, Assistant Professor, AITS,

Tirupati.

Journal Name : International Journal for Research in Engineering

Publication & Management (IJREAM)

Title : Analysis of Femur Bone at various loads by using Finite

Element Analysis

Volume number and details : ISSN: 2454-9150 Vol-05, Issue-02, May 2019

3. Name of the Faculty : 1. K Kumar, Associate Professor, AITS, Tirupati.

2. Dr. S. Arul, Professor, AITS, Tirupati.

Journal Name : International Journal of Advanced Research in Science &

Technology IJARST)

Title : Experimental investigation on Cu2O Coated/Non CoatedGear

to Compare Enhanced Properties

Volume number and details : Volume 7, Issue 1, July 2020

4. Name of the Faculty : 1. K Rajasekhar, Assistant Professor, AITS, Tirupati.

2. S. Siva Sankar, Assistant Professor, AITS, Tirupati.

3. C. Jayasham, Assistant Professor, AITS, Tirupati.

4. K. Satish Kumar, Assistant Professor, AITS, Tirupati.

Journal Name : International Journal for Modern Trends In Science And Technology

Title : Tribological Investigation of Epoxy Composite with Hard Powder

Volume 7 ISSNNO: 2455-3778

5. Name of the Faculty : 1. S.Siva Sankar, Asst. Professor, AITS, Tirupati.

Journal Name : Journal of Resource Management and Technology

Title : Effects of Post weld treatment on microstructure and mechanical

behaviour of friction stir welded thick selection al-cu alloy

Volume number and details : ISSN NO: 0745-6999

MEMBERSHIP IN PROFESSIONAL BODIES:

S.	Name of faculty	Professional Bodies Certificates	Date
1	Dr. S.Arul	ISTE	2000
2	Sri. K.Kumar	LMISTE, LMIAENG, LMISRD	08/08/2009, 12/7/2011, 3/12/2014
3	Sri. M.Balaji	INTERNATIONAL ASSOCIATION OF ENGINEERS	21-09-2016
4	Sri. P.C.Prakash	INTERNATIONAL ASSOCIATION OF ENGINEERS	21-09-2016
5	Sri. D. Rama Krishna	INTERNATIONAL ASSOCIATION OF ENGINEERS	04-06-2018
6	Sri. D. Rama Krishna	INTERNATIONAL SOCIETY FOR RESEARCH AND DEVELOPMENT	04-06-2018
7	Sri. D. Rama Krishna	INSTITUTE FOR ENGINEERING RESEARCH AND PUBLICATION(IFERP)	01-06-2020 TO 31/12/2020

8	Sri. S. Siva Sankar	INTERNATIONAL ASSOCIATION OF ENGINEERS	04-06-2018
9	Sri. S. Siva Sankar	INTERNATIONAL SOCIETY FOR RESEARCH AND DEVELOPMENT	04-06-2018
10	Sri. K. Rajasekhar	INTERNATIONAL ASSOCIATION OF ENGINEERS	10-04-2019
11	Ms. P. Indraprasta	THE INSTITUTION OF ENGINEERS (INDIA)	30-01-2018
12	Sri. C. Jay Shyam	INSTITUTE OF RESEARCH ENGINEERS AND DOCTORS	21-09-2016
13	Smt. S. Praveena	INSTITUTE OF RESEARCH ENGINEERS AND DOCTORS	21-09-2016
14	Smt. S. Praveena	INTERNATIONAL ASSOCIATION OF ENGINEERS	26-09-2016
15	Smt. S. Praveena	INTERNATIONAL SOCIETY FOR RESEARCH AND DEVELOPMENT	26-09-2016
16	Sri. K Satish Kumar	ISME	26-09-2016
17	Sri. NV. Puneeth Kumar	INTERNATIONAL SOCIETY FOR RESEARCH AND DEVELOPMENT	04-06-2018
18	Sri. NV. Puneeth Kumar	INTERNATIONAL ASSOCIATION OF ENGINEERS	04-06-2018
19	Smt. S Nishanthi	INTERNATIONAL ASSOCIATION OF ENGINEERS	26-09-2016
20	Smt. S Nishanthi	INTERNATIONAL SOCIETY FOR RESEARCH AND DEVELOPMENT	26-09-2016

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)



Dr.N.Pushpalatha HOD of ECE

Electronics and Communication Engineering department is aimed to set a path of success to "Budding Engineers". The department further endeavours to impart high quality education and produce graduates with a sound knowledge on advanced research in ECE. It includes a team of well qualified, experienced and dedicated faculty members with industrial and research background.

The department started UG Program with initial intake of 60 students in the year 2007 and the intake is enhanced to 120 in the year 2011, 180 in the year 2014 and the same strength is maintaining up to now. The department introduced a PG Program namely Digital Electronics and Communication Systems (DECS) started in the year 2012 with intake of 12 students. Department has sanctioned R&D Cell in the year 2017. Department also offer Ph.D programme under R&D cell since 2017. The Department offers Ph.D program full time in various specializations under R&D Cell.

Department has obtained permanent affiliation to JNTUA for all the programmes UG, PG and R&D Cell. Department is accredited by NBA on 2016 and institute is accredited by NAAC with 'A' Grade on 2018 and recognized under sections 2(f) and 12(B) by UGC. The department has IETE Association through which students are allowed to enrich their technical knowledge by attending / participating national level workshops, seminars and working model exhibitions. Technical association was formed in the year 2008 with an objective of motivating the students to actively participate and organize technical and non technical events by name TRISHNA every year. The activities under these associations has given a scope for both student and teaching community to get acquainted in different areas like 1D & 2D Signal Processing, Embedded Systems, RADARS, Telecommunication, Mobile & Satellite Communications and many more. As a part of curriculum, industrial visits are arranged to students so that they are inspired to do their project works in R&D organizations like NARL, SHAR, NAL, BSNL, HAL, etc. The students have been placed in various reputed organizations through ON/ OFF campus placements. Some of the students are motivated to pursue higher education in reputed Universities / Institutes in India and abroad.

VISION:

 To achieve excellence in the field of Electronics and Communication Engineering with professional competency.

MISSION:

- Strict adherence to the curriculum requirements for the overall development of learners.
- Continuous up-gradation of Physical Infrastructure for reaching Excellence.
- Utilize Industry-Institute linkages to acquire professional competency in the learners.
- Stimulate the Graduates with innovative ideas in research and for higher studies.

AICTE FUNDING DETAILS:

1. AICTE SPONSORED SHORT TERM TRAINING PROGRAMME ON APPLIED MACHINE LEARNING:

The Department of Electronics and Communication Engineering of AITS, Tirupati was sanctioned grant-in-Aid on applied machine learning for conducting STTP under AQIS 2018-2019.

2. AICTE SPONSORED MODROB FOR EMBEDDED SYSTEMS (UAV) LAB:

The Department of Electronics and Communication Engineering of AITS-Tirupati, was sanctioned grant-in-Aid under the Modernization and Removal of obsolescence (MODROB) scheme for modernization of Embedded systems (UAV) LAB for the academic year 2019-2020 by AICTE. This UAV lab is useful for students to learn new concepts, understand the design and fabricate unmanned aerial vehicle for different applications in research fields.

FACULTY DETAILS:

Total No. of faculty: 45

S.No	Faculty	Members
1	Doctorates	4
2	Professors	2
3	Associate professors	2
4	Assistant Professors	41

HOD'S PROFILE



Dr. N. Pushpalatha, Associate Professor HOD of ECE

Dr. N. Pushpalatha received the Bachelor of Technology degree in Electronics and Communication Engineering from JNTU, Hyderabad, India in 2004, and the Master of Technology degree in Digital Electronics and Communication Systems from JNTU, Hyderabad, India in 2007. She received Ph.D. degree from JNTUH, Hyderabad in the year 2017. She is Associate Professor and Head of Electronics & Communication Engineering department, Annamacharya Institute of Technology and Sciences, Tirupati. Her current research areas of interest are Wireless Sensor Networks, Communications etc. She has more than 13 years of teaching experience and 3 years of Industrial experience. She has authored 30 research publications in National and International Journals. She presented papers in 10 National and 15 International conferences. Few papers were published in UGC Approved Journals, Scopus Indexed Journal, Thomson Reuter Journals and Free Journals. Two conference papers got Best Paper Award. She has authored one Book Chapter in Elsevier titled as "Soft Computing Wireless Sensor Networks".

Dr. N. Pushpalatha is an active member of Professional bodies like ISTE and IAENG. She is Chairperson of Internal Complaints Committee of AITS, Tirupati. She is a member of Women Empowerment Cell of AITS, Tirupati. She has been a member in various committees all Technical as well as Cultural Fests and functions in the AITS, Tirupati. She has been associated in preparatory work for Accreditations by IE (India), NBA, NAAC, JNTUA R&D Cell in the department of ECE and Women's Day Celebrations in the college.

HOD'S MESSAGE

I am confident that students of department would justify the credibility of the department by showing a high level professional competency in their respective field. I wish best of luck to all of them.

Dr. N.Pushpalatha, Associate Professor **HOD of ECE**

DEPARTMENTAL LABS

VLSI & EMBEDDED SYSTEMS LAB:

VLSI & Embedded Systems Lab is used by B.Tech final year students to get expertise in designing sequential and combinational circuit. To have good basic foundation skills on advanced processors TM4C123GH6PM and their interfacing examples.









DIGITAL SIGNAL PROCESSING (DSP) LAB:

The lab is used for practical works related to Digital Signal Processing, and their applications. Students learn about various DSP algorithms and Digital Signal Processors using most advanced version of MATLAB consisting of all toolboxes like signal processing, control design, image processing.









MICROPROCESSORS AND MICRO CONTROLLERS LAB:

Microprocessors Lab is used by the undergraduate students of the institute to perform experiments based on 8086 microprocessor kits and peripheral boards. The lab is equipped with various advanced microcontroller Launch pads like MSP430 and their interfacing.









MICROWAVE & OPTICAL COMMUNICATIONS LAB:

Microwave and Fibre optics Lab is used by B.Tech third year students to enhance their skills in Microwave Engineering field. This Lab is equipped with various microwave benches having Klystron and Gunn diode as microwave sources. By using these benches students study various characteristics of microwave devices like couplers, tees, circulators, isolators etc. Lab also includes experiments of optical fibre communication with various modern Trainers kits.







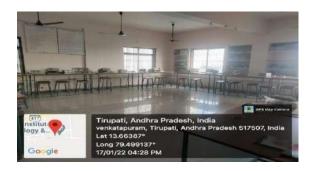


ANALOG COMMUNICATIONS & DIGITAL COMMUNICATIONS LAB:

This lab deals with the design and measurement of Analog and digital communication systems. Concepts include SNR, Modulation Index, PCM, and spread spectrum measure signal-to-noise ratio with various equipment; design and measure AM, FM, QPSK, and spread spectrum communication systems; routinely use communications test equipment; and identify and measure factors which hamper communication systems.









ELECTRONIC DEVICES AND CIRCUITS LAB:

This laboratory is established with an aim to develop the fundamentals related to building blocks of analog electronic circuits. Experiments carried out include study of active devices like BJT, FET, UJT and switching devices like SCR, the design of basic circuits like rectifiers, amplifiers, oscillators and their applications etc. The laboratory is equipped with Cathode Ray Oscilloscopes, Regulated Power Supplies, Function Generators and many other electronic components. Students connect all experiments using bread board. This laboratory enables the Hyear students to gain practical experience in connecting and testing circuits with discrete components.









IC APPLICATIONS LAB:

The laboratory aims at imparting the knowledge required to design and verify different analog and digital circuits based on operational amplifiers IC 741, 555 timers etc. Also enables them to get familiarity with various linear ICs such as OP Amp (μ A741) and Timers (SE/NE 555), Design of multi vibrators & sweep circuits, ADC and DAC.







ARTICLES BY FACULTY:

HEALTHCARE SYSTEM TO CATER DISASTER SITUATIONS USING ADVANCED WIRELESS TECHNOLOGY



Dr. N.Pushpalatha, Professor & Head

This article discusses healthcare communication challenges and possible solutions for early awareness and rapid response in disaster situations under the human-centric vision of 6G wireless technologies. The natural disasters created by infectious diseases have a formidable impact on people and societies. Getting better healthcare from diagnosis to treatments is a basic human need. High quality healthcare must be available for everyone and everywhere, which is now possible with the development of smart healthcare applications. Without affecting the city infrastructure, pandemics leave the places abandoned because of the shortage of human resources, either due to deaths, illness, or unwillingness to work because of health risks. However, providing a timely response can prevent losses from occurring due to the virus dissemination. Since the first reported case of influenza in 1918 to the current pandemic Corona virus Disease-2019 (COVID-19), the system playing a key role in saving human lives is healthcare. Nowadays, smart healthcare system development is a popular trend and wireless communication is the backbone of such systems. To provide patients with diagnosis, treatments, and several health services both within hospitals and remotely, all the healthcare units must be equipped with advanced technologies. A rapid response unit is also required to handle the thrustof the patients and queries generated during disasters.

The perspective article presents the role of wireless communication in the healthcare system during regular and pandemic situations as shown in figure. We first categorize the healthcare system into three areas, hospital, remote healthcare, and disaster response unit. Then, we investigate the problems of healthcare communication system in each area along with the possible solutions, and present a vision of 6G from the healthcare perspective. We believe that the healthcare system with the inclusion of 6G technologies can help in handling the pandemic situations more effectively and minimize the fatalities. All these technological advancements rely on the communication infrastructure of the hospital and require a secure,

reliable and high data rate communication link. RF based wireless communication i.e., Wi-Fi network has been widely deployed in hospitals to enable communication with better capacity.



Fig. Healthcare system categorization for pandemic response

OT BASED HUMAN BRAIN HEMORRHAGE DETECTION USING MACHINE LEARNING ALGORITHM



Dr.I.Suneetha, Professor ECE Department

This article presents an IoT-based model for the brain hemorrhage detection based on support vector machine (SVM) and feed forward neural network (FNN). Globally, most of the countries are facing a dramatic increase in the number of medical patients. This high rise in number restricts the patients in accessing the caregivers or primary doctors for quality treatment. In this modern technological age, improving the efficiency of biomedical and healthcare systems is the most challenging task. Brain hemorrhage is a type of stroke that is normally caused by an artery in the brain. The stroke bursts and bleeds in the surrounding tissues. The continuous bleeding from the concern tissues kills brain cells. In case of not accurately diagnosing and treated in time-sensitive procedure, then it will cause death or lifetime disability. The main causes of brain hemorrhage are regular use of alcohol, high blood pressure, smoking, etc., while heredity is also considered as a major factor in the context of brain hemorrhage. Computerized tomography (CT) scans are examined by the radiologists to predict intracranial hemorrhage (ICH) and locate affected regions. Additionally, hemorrhage is divided into five categories based on the bleeding tissues that are intraventricular hemorrhage, intraparenchymal hemorrhage, subarachnoid hemorrhage, epidural hemorrhage, and subdural hemorrhage.

IoT plays a key role in the form of smart medical devices and wearables, with the ability to collect varied and longitudinal patient-generated health data, and at the same time also offering preliminary diagnosis options. In terms of efforts made for helping the patients using IoT-based solutions, experts exploit capabilities of the machine learning algorithms to provide efficient solutions in hemorrhage diagnosis. To reduce the death rates and propose accurate treatment, a smart IoT-based application using machine learning algorithms for the human brain hemorrhage diagnosis as shown in figure. Based on the computerized tomography scan images for intracranial dataset, the support vector machine and feed forward neural network have been applied for the classification purposes. Overall,

classification results of 80.67% and 86.7% are calculated for the support vector machine and feed forward neural network, respectively. It is concluded that the feed forward neural network outperforms in classifying intracranial images. The output generated from the classification tool gives information about the type of brain hemorrhage that ultimately helps in validating expert's diagnosis and is treated as a learning tool for trainee radiologists to minimize the errors in the available systems.

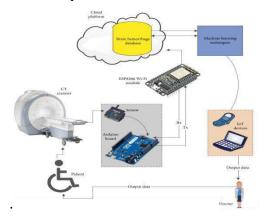


Fig. IOT Based Human Brain Hemorrhage Detection

Ph.D Awarded:



.Name of the faculty : Dr. R. Kalyan

Research Guide : Prof. K.T.V.Reddy, JNTU, Anantapur

Title : Ultra-Wide Band Compact Band Notch Micro strip

antennas for Wireless Telecommunication Applications

Awarded : 16th December 2020

PATENTS

<u>Title</u>: 'CROWD DETECTION CAMERA TO SPEKE THE MAINTAIN AND IDENTIFY THE SUSPECT USING AI-BASED PROGRAMMING'

Author : P.Harish, Assistant professor

Patent application number : 202141020989

Year : 2020-2021

ABSTRACT:

Particularly this invention relates to a mobile device security, and more particularly to the security of mobile devices using device behavior. Mobile devices, such as smartphones, tablets and laptops have become an integral part of our personal life, and more recently, our work environment. Many people use their smartphone or tablet to access corporate or government email and calendars, or run enterprise applications. To mitigate theft/compromise risks, government agencies, corporations and defense forces invest significant money and resources in securing their property. Some resources include video surveillance, security personnel, and identification checkpoints. At the same time, mobile devices are pervasive. Some devices are equipped with powerful sensors, such as a camera, microphone, gyro, GPS, accelerometer and touch-screen readers. Mobile devices provide excellent coverage of spaces of interest, and they are mobilized around the sensitive areas by people. To a large degree, the

mobile devices within the premises of an enterprise satisfy a rust relation. More specifically, it can be statistically safe to assume that nearby devices are to be trusted for the purpose of collaboratively mining and calibrating sensor data.

2.Title : 'PATIENT CENTRIC HEALTHCARE SYSTEM USING
AI AND BLOCKCHAIN'

Author : P.Harish, Assistant professor

Patent application number: 202141042806

Year : 2021-2022

ABSTRACT: In this system, Four methods of contributing to the suggested decentralized patientcentric framework. First, the interoperability of various healthcare partners such as providers, payers, pharmaceuticals, governments and researchers will be improved. Secondly, COVID-19 patients safely keep medical records and sensitive personal data on the patient-centric blockchain Platforms. Third, the Blockchain lowers the amount of silo patient data and removes central organizations, enhancing medical research and treatment via predictive diagnostics and analytical models from AI. Fourthly, this Blockchain provides federated learning methods in which AI models train COVID-19 information with consent to patient's data hospital side while maintaining their privacy.

3.<u>Title</u>:AN APPARATUS AND A METHOD FOR BEAMFORMING USING PHASED ARRAY ANTENNA.

Name : Dr.R.Kalyan, Associate professor

Patent application number : 202141035802.

Year : 2021-2022

ABSTRACT: In this, Communication network is between a base station and an interface device. The base station has an apparatus comprises of plurality of transceiver switches, plurality of phase shifter, analog to digital converter and a controller wherein said apparatus is connected to a beam forming network. Said plurality of transceiver switches is connected to plurality of antenna. Plurality of transceiver switches are connected on each sides of plurality of phase shifter. Said analog to digital converter is connected with one of the plurality of transceiver switch. Said is connected to plurality of said apparatus. According to the method of beam forming using phased array antenna comprising of following steps.

The signal is received by the base station through plularity of antenna. The channel measure of received signal is determined through plurality of antenna by the controller the channel information, mapping rules by the controller to transmit the beam formed signal. The channel information is send to the transmitter of the plurality of the antenna.

PUBLICATIONS

HIGHLY REPUTED JOURNALS:

1. Name of the faculty: Mr.P. Harish, Asst. Prof., AITS, Tirupati.

Journal Name : Elsevier

DOI : 10.1016/j.matpr.2020.11.495

<u>Title:</u>MRI based detection and classification of brain tumor using enhanced faster R-CNN and Alex Net model@ 2020 Elsevier Ltd

Impact factor : 8.5

ABSTRACT: The brain tumor is the accumulation of anomalous cells in certain brain tissues. The diagnosis of a brain tumor requires high precision, where minute human judgment errors can lead to disaster. To solve this problem, automatic brain tumor segmentation has been introduced in the medical field. Several approaches for tumor segmentation still exist but they are both deficient in high precision. This paper introduces a novel framework to detect and classify tumors based on MRI images. MRI is a powerful method for human brain tumor diagnosis. In this work, we propose a deep learning method which is a recent and very robust method for image segmentation and classification task. In deep learning, Enhanced Faster Region-based Convolutional Neural Network (Enhanced Faster R-CNN) is used for brain tumor detection that separates the tumor region from non-tumor regions accurately. Traditional Faster RCNN is Enhanced by adding of ResNet50 network model. Finally, an efficient classification algorithm of transfer learning Alex Net model is proposed to classify the MRI brain tumor regions into different types such as benign and malignant with high accuracy and less computational time. The proposed novel framework achieves the highest detection and classification accuracy than the other methods.

PAPER PUBLICATIONS:

S. N	Name of the author	Qualific ation	Design ation	Title of paper	Name of journal	Vol.No., Issue No, Year & Page.	Year of publi catio n	ISBN/I SSN numbe r	Impa ct facto r	UG C App rove d
1	J. Midhula Sri	M.Tech	Asst Prof	Weed detection in between the crops using morphological operations	IJAEMA	Volume XIII, Issue III, pp.782- 787	2021	ISSN:0 886- 9367	6.3	Yes
2.	P.Harish	(Ph.D)	Asst Prof	MRI based detection and classification of brain tumor using enhanced faster R- CNN and Alex Net	ELSEVI ER		2020		8.5	Yes
3.	Dr.Irala Suneetha	Ph.D	Profess or	Human Security In Mining System Using IoT	JETIR	Volume 7, Issue 7 pp.330- 333	2020	ISSN- 2349- 5162	7.95	Yes
4.	A.Mounik a	M.Tech	Asst Prof	Hybrid Multiplier- based Optimized MAC Unit	Wutan Huatan Jisuan Jishu Journal	Volume- XVI, Issue- V, pp.252- 257	2020	ISSN:1 001- 1749	5.5	Yes
5.	S.Vidya Rani	M.Tech	Asst Prof	GREENHOUSE MONITORING SYSTEM	Wutan Huatan Jisuan Jishu Journal	Volume- XVI, Issue-V, pp.258- 262	2020	ISSN:1 001- 1749	5.5	Yes
6.	Shaik Benarjee	M.Tech	Asst Prof	Simulation of Beam Steering for Active Array Radars	Wutan Huatan Jisuan Jishu Journal	Volume XVI, Issue V, pp.304- 309	2020	ISSN:1 001- 1749	5.5	Yes
7.	V. Vijaya Lakshmi	M.Tech	Asst Prof	Hi-Tech Energy Meter Automatic Load Control by Using 8051	Wutan Huatan Jisuan Jishu Journal	Volume XVI, Issue V, pp.387- 393	2020	ISSN:1 001- 1749	5.5	Yes
8.	K. Vijaya Lakshmi	M.Tech	Asst Prof	An Advanced Embedded System for Women Safety using Arduino IDE	Wutan Huatan Jisuan Jishu Journal	Volume XVI, Issue V, pp.263- 265	2020	ISSN:1 001- 1749	5.5	Yes
9.	Y. Penchalai ah	M.Tech	Asst Prof	Vehicle Over Speed Indication to Traffic Control Room Through GSM	IJAEMA	Volume XIII, Issue VI, pp.1577- 1583	2020	ISSN:0 886- 9367	6.3	Yes

10	Y. Penchalai ah	M.Tech	Asst Prof	IDERS: Iterative Dwhazing Method For Single Remote Sensing Image	IJAEMA	Volume XIII, Issue VI, pp.794- 806	2020	ISSN:0 886- 9367	6.3	Yes
11	Y. Penchalai ah	M.Tech	Asst Prof	The Method of Low Power, High Performance And Area Efficient Address Decoder	IJAEMA	Volume XIII, Issue VI, pp.1965- 1971	2020	ISSN:0 886- 9367	6.3	Yes
12	P.Harish	M.Tech	Asst Prof	Automated Smart Sericulture For Enhancement Of Silk Production Using IOT	IJAEMA	Volume XIII, Issue VI, pp.634- 637	2020	ISSN:0 886- 9367	6.3	Yes
13	K.S.Deve swari	M.Tech	Asst Prof	A Shadow Overlapping Algorithm for Estimating Building Heights from VHR	IJAEMA	Volume XIII, Issue VI, pp.1243- 1247	2020	ISSN:0 886- 9367	6.3	Yes
14	K.S.Deve swari	M.Tech	Asst Prof	COVId-19 Detection And Safety Measure	IJAEMA	Volume XIII, Issue VI, pp.1238- 1241	2020	ISSN:0 886- 9367	6.3	Yes
15	M. Lakshmi Narayana Reddy	M.Tech	Asst Prof	Automated Attendance System Using GSM With Fingerprints	IJAEMA	Volume XIII, Issue VI, pp.2718- 2728	2020	ISSN:0 886- 9367	6.3	Yes
16	V.Vijaya Lakshmi	M.Tech	Asst Prof	IDERS: Iterative Dwhazing Method For Single Remote Sensing Image	IJAEMA	Volume XIII, Issue VI, , pp.794- 806	2020	ISSN:0 886- 9367	6.3	Yes
17	A. Mounika	M.Tech	Asst Prof	Identification and Separation of White Blood Cells and Red Blood Cells using Computer Aided	IJAEMA	Volume XIII, Issue VI, pp.818- 830	2020	ISSN:0 886- 9367	6.3	Yes
18	K.Vijaya Lakshmi	M.Tech	Asst Prof	Comparative Study of Test Pattern Generation Systems to Reduce Test Application Time	IJAEMA	Volume XIII, Issue VI, pp.1233- 1237	2020	ISSN:0 886- 9367	6.3	Yes
19	A.S. Lavanya	M.Tech	Asst Prof	Identification and Separation of White Blood Cells and Red Blood Cells using Computer Aided	IJAEMA	Volume XIII, Issue VI, pp.818- 830	2020	ISSN:0 886- 9367	6.3	Yes
20	S.Vidyara ni	M.Tech	Asst Prof	Weather Parameter Monitoring Using Zig-Bee	IJAEMA	Volume XIII, Issue VI, pp.831- 835	2020	ISSN:0 886- 9367	6.3	Yes
21	Shaik Benarjee	M.Tech	Asst Prof	Wireless Data Encryption And Decryption For Security In Army Applications	IJAEMA	Volume XIII, Issue VI, pp.973- 977	2020	ISSN:0 886- 9367	6.3	Yes

22	N. Alekya	M.Tech	Asst Prof	Weather Monitoring Data Logger System Using IOT	IJAEMA	Volume XIII, Issue VI, pp.807- 817	2020	ISSN:0 886- 9367	6.3	Yes
23	P. B. Lavanya	M.Tech	Asst Prof	A Morphological Operation-Based Approach for Sub- Pleural Lung Nodule Detection from CT	IJAEMA	Volume XIII, Issue VI, pp.788- 795	2020	ISSN:0 886- 9367	6.3	Yes
24	E.Devisri	M.Tech	Asst Prof	ASQMS, Air Sound Quality Monitoring System Using IOT	IJAEMA	Volume XIII, Issue VI, pp.1569- 1576	2020	ISSN:0 886- 9367	6.3	Yes
25	G. Anitha Rani	M.Tech	Asst Prof	Design of a Two-Bit Magnitude Comparator Based on Pass Transistor, Transmis	IJAEMA	Volume XIII, Issue VI, pp.978- 981	2020	ISSN:0 886- 9367	6.3	Yes
26	Dr.Irala Suneetha	Ph.D	Profess or	Implementation of Fast Binary Counters Based on Symmetric Stacking	JETIR	Volume 6, Issue 2 pp.625-	2019	ISSN- 2349- 5162	7.95	Yes
27	Harish Pasupulati	(Ph.D)	Asst Prof	Brain Tumour Detection using Graph Cut Method	JETIR	Volume 6, Issue 2, pp.655- 660	2019	ISSN- 2349- 5162	7.95	Yes
28	K.Vijaya Lakshmi	M.Tech	Asst Prof	IoT using Smart Energy Meter for Home	JETIR	Volume 6, Issue 2, pp.639- 642	2019	ISSN- 2349- 5162	7.95	Yes
29	Dr.Irala Suneetha	Ph.D	Prof	Electrical Line Man Safety using Finger Print Sensor	JETIR	Volume 6, Issue 2, pp.605- 607	2019	ISSN- 2349- 5162	7.95	Yes
30	Dr. N. Pushpalat ha	Ph.D	Prof	Solar Energy measurement using Arduino Board	JETIR	Volume 6, Issue 2, pp.662- 664	2019	ISSN- 2349- 5162	7.95	Yes
31	M.Laksh minarayan a Reddy	M.Tech	Asst Prof	Real-time Facial Expression Recognition System using Raspberry Pi	JETIR	Volume 6, Issue 2, pp.647- 651	2019	ISSN- 2349- 5162	7.95	Yes
32	T.Jyothi	M.Tech	Asst Prof	Implementation Based on Dual Background & Modeling for detection of moving	JETIR	Volume 6, Issue 2, pp.591- 596	2019	ISSN- 2349- 5162	7.95	Yes
33	A.Mounik a	M.Tech	Asst Prof	Multi resolution Fusion Techniques for Medical Images	JETIR	Volume 6, Issue 2, pp.669- 671	2019	ISSN- 2349- 5162	7.95	Yes

34	K.Kalyani	M.Tech	Asst Prof	Smart Security For Irrigation System	JETIR	Volume 6, Issue 2, pp.579- 583	2019	ISSN- 2349- 5162	7.95	Yes
35	Dr.I.Sune etha	Ph.D	Profess or	Binarization Based Block Processing FOR Text Recognition	СЕЈ	Volume 10, Issue 8, pp.13-18	2019	ISSN- 0898- 3577	6.1	Yes
36	Dr.N.Push pa Latha	Ph.D	Profess or	Binarization Based Block Processing FOR Text Recognition	СЕЈ	Volume 10, Issue 8, pp.13-18	2019	ISSN- 0898- 3577	6.1	Yes

MEMBERSHIP IN PROFESSIONAL BODIES:

S.No.	Membership Details	Total count
1.	IAENG	11
2.	UACEE	9
3.	IETE	2
4.	ISTE	5
5.	MIE	2
6.	AMIE	2
7.	SDIWC	28

FACULTY ACHIEVEMENTS

1. Dr. I. Suneetha, Professor

Certificate of Excellence is proudly presented by TechQui - A National level
 Technical Equiz series during 20-5-2020 to 25-5-2020, organized by dept of ECE of
 Sri Venkateswara Perumal College Of Engineering, Puttur.



3. Y.Penchalaiah, Assistant professor

Achieved certificate of appreciation for NPTEL discipline star of the year 2019 in Electrical Engineer discipline.



EDUCATIONAL CHANNELS:

You tube video links of faculty:

1. S.Vidya Rani, M.Tech, Assistant professor

In this channel, students can learn academic aspects on Power amplifiers and communication receivers and also examples of communication systems.

https://youtube.com/channel/UCRQ7iLtgpOHuzBOuaehYUgg

2. N. Dilip Kumar, M.Tech, Assistant professor

In this channel, students can learn academic aspects on Communications & transmission lines and also career builder activities.

https://www.youtube.com/channel/UCcEHVtE_8o7CLxhTNPnuZfQ

3. P. Praveenkumar, M.Tech, Assistant professor

In this channel, students can learn academic aspects on Embedded systems, IoT, communication skills and soft skills.

https://www.youtube.com/channel/UCUBL_VxxmHHg0LFaex4A8pA

4. M. Lakshmi Narayana Reddy, M.Tech Assistant professor

In this channel, students can learn placement aspects like communication skills and soft skills.

https://www.youtube.com/channel/UC2-Bdkj4javpXL0LsXbkfrQ

5. J. Midhulasri, M.Tech, Assistant professor

In this channel, Students can learn interdisciplinary subject like problem solving programming in C.

https://www.youtube.com/channel/UCQO-GRo7YNkLbiQssD5USwA

DEPARTMENT OF

COMPUTER SCIENCE AND ENGINEERING (CSE)



Mr. B. Ramana Reddy HOD of CSE Department

The field of Computer Science and Engineering has been pushing the envelope of almost all other disciplines, which use computing as a fundamental means of inquiry and tool for discovery. Computer science and engineering offers exciting, intellectually challenging, and rapidly growing career opportunities. It is the heart of where the action is: whether this means intelligent game playing, mobile applications, smart robots, cloud computing, data security or social networks. The department has stretched its hands and established CIC, AI&DS and AI&ML branches.

VISION:

To achieve excellence in the field of Computer Science and Engineering with professional competency

MISSION:

- Provide quality education to achieve excellence.
- Upgrade infrastructure and technologies to meet the learner's needs.
- Establish linkages with Government and Industry to enhance technical skills, entrepreneurship and innovations.
- Support research to serve the needs of the society.

FACULTY DETAILS:

Total No.of faculty: 44

S.No	Designation	Members
1	Doctorates	2
2	Associate Professors	2
3	Assistant Professors	40

HOD'S PROFILE:



Mr. B. Ramana Reddy HOD of CSE Department.

Mr. RAMANA REDDY BANDI received his BTech(CSE) from JNTUH in 2006, MTech(CSE) from JNTUA in 2009. He is working as Head of Computer Science and Engineering department, Annamacharya Institute of Technology and Sciences, Tirupati. He is a Ratified faculty under JNTUA, Ananthapuramu-515002. His current research areas are Machine Learning, Data Science, Theory of Computing and Deep Learning.

He has more than 13 years of teaching experience and 2 years of Industry experience. He has published 15 articles in reputed National/International journals and few papers were published in UGC Approved Journals and Scopus Indexed Journals. He has applied and published 3 patents on emerging technologies/ ideas. He is an active member of Professional bodies like CSI, ISTE and IAENG. He is successfully running a Youtube channel of his own (Ramana Reddy Academic lectures) for teaching subjects like FLAT, CD, TOC and Machine Learning https://www.youtube.com/channel/UCb8HLf1c -m0MovWMWdg_bA

Mr.Ramana Reddy Bandi is also incharge of Andhra Pradesh State Skill Development Corporation from the stage of inception and conducted many events on Skill Development programmes for students and faculty. Under the guidance of the management and the principal, he contributed for the establishment of "CM's Skill Excellence center (Computing lab)" & "DASSAULT SYSTEMS Advance technologies Training lab, worth of 1 crore rupees for Design experience" provided by the Government of Andhra Pradesh.

Mr. Ramana Reddy Bandi headed IUCEE (Indo Universal Collaboration for Engineering Education) in association with Purdue University, USA for enhancing Teaching- Learning process and for creating Engineering projects in community service. He also headed AP Innovation Society with the association of XLR8 and University of Texas at Austin for IC2 (Innovation, Creativity & Capital). He also headed Machine Learning research group in association with Bennett University, Delhi.

HOD'S MESSAGE:

I am consistent that the students of the department would justify the credibility of the department by showing a high level of professional competence in their respective field.

"I wish Best of Luck to all students"

DEPARTMENTAL LABS

JOHN MCCARTHY LAB

Students is capable to acquire the generic software development skill. Computer Networks, Operating Systems, Artificial Intelligence, Grid and Cloud Computing, Compiler Design, Web Programming laboratory subjects for CSE students are conducted in the lab.

Configurations:

No of Systems: 75, HP280G6 Desktop, Core-i5 -10500,16GB DDR4 RAM,1TB HDD, 18.5 TFT Monitor, USB mouse and USB Key Board.





RITCHIE LAB & GOSLING LAB

Problem Solving and Programming, CSE Workshop, Basics of Python Programming laboratory subjects for under graduate students, Information Technology for Managers laboratory subject for MBA students are conducted in this lab. Placement Training sessions are also held in the lab.

Configurations:

No of Systems: 220, LENOVO M60 DESKTOP G-41, Chipset: Intel Pentium G630 2.40 Ghz processor, 2 GB DDR3 RAM, 250 GB HDD,15.6" LED Monitor, Keyboard, and Optical Mouse.





VINT CERF LAB

Grid and Cloud Computing, Database Management Systems, Computer Organization, Cascading Style Sheets Laboratory subjects are conducted for under graduate students. Project/Internships are conducted in Lab.

Configurations:

No of Systems: 80, Lenovo S500 Desktop, Intel H110 chipset: Intel i3 Processor, 4GB DDR4 RAM, LED 19.5 Monitor,1TB HDD



Tim Berners Lee Lab:

Problem Solving and Programming, CSE Workshop, Basics of Python Programming, database Management systems laboratory subjects for under graduate students are conducted in the lab.



Aho Ullman Lab

Problem Solving and Programming, CSE Workshop, Basics of Python Programming, database Management systems, CADD laboratory subjects for under graduate students are conducted in the lab.

Configurations:

No of Systems: 110, HP 280G4 Desktop, Intel Core i3-8100, 8GB RAM, 1TB HDD, 18.5 TFT monitor, USB mouse and USB Key Board



CM's Skill Excellence Centre

Mobile Application Development, Data Science, CSE Workshop, Grid and Cloud Computing laboratory subjects for under graduate students are conducted in the lab.

Configurations:

No of Laptops: 37, Acer TravelMate TMP249-G2-M-35HN 14" Laptop/Notebook. Windows® 10 Pro, Intel® Core™ i3-7100U Processor - 2.4GHz, 4GB DDR4 RAM Memory, 1TB SATA HDD 5.4Krpm Hard Drive, Intel® HD Graphics 620 . VGA & HDMI with HDCP 2.2 ports, 14" HD 1366x768 resolution, 802.11ac,2x2 MIMO WiFi, Gigabit, Ethernet (WOL) & Bluetooth 4.0



PATENTS:

1. Title : HYBRID MEMORY CUBE ORIENTED IMAGE CLASSIFICATION

USING A MACHINE LEARNING TECHNIQUE

Author : Dr. N. Badrinath, Professor, AITS, Tirupati

Field of invention: Machine Learning

Publication Date : September, 2021

ABSTRACT:

ABSTRACT HYBRID MEMORY CUBE ORIENTED IMAGE CLASSIFICATION USING A MACHINE LEARNING TECHNIQUE

In this present invention, the host processor present in the HMC is configured with machine learning algorithm that reduces the deep queues while processing the HMC for image classification. The main learning in host processor reduces the complex scheduling of task while carrying out the classification task. It offers high reordering of tasks and enables maximized performance. The integration of Artificial Neural Network host processor offers flexibility of scheduling, reduced timing constraints and prevents overrun. It has the ability to process the task without reducing the high volume DRAM. It offers increased improvement in case of random request stream, and act as a potential responders for a typical request.

2. Title : Fine-grained Fish Classification on Underwater Images using Deep

Learning Architectures

Author : Dr. N. Badrinath, Professor, AITS, Tirupati

Field of invention : Deep Learning

Publication Date : November, 2021

ABSTRACT:

The process of identifying and recognizing fish species based on their physical characteristics is known as fish classification (FC). Based on similarities with the representative specimen image, it recognizes and classifies the target fish into species. This procedure is required for feature extraction, pattern and contour matching, determining behavioral and physical traits, and controlling fish species quality. FC may be useful for assessing and counting fish populations, monitoring ecosystems, and describing fish associations. Fish identification is thought to be a

problematic and multifaceted task. Furthermore, all automatic FC solutions should consider fish orientation, different sizes, features, and environmental conditions.

In fish image classification, the goal is to identify and classify objects that fall into specific subcategories within a larger category. Cats and dogs, for example, have received a lot of recent attention, as have well-defined types like planes and flowers. There is a lot of overlap in the traits of different species, which makes this task challenging. Fish resources are significant to the marine ecosystem. The study of fish classification provides the door for real-time fish image processing and will aid in the creation of digital underwater hardware devices.

3. Title : ARTIFICIAL INTELLIGENCE BASED COVID-19 SPREAD

PREDICTION

Author : Dr. N. Badrinath, Professor, AITS, Tirupati

Field of invention: Artificial Intelligence

Publication Date: October, 2021

ABSTRACT:

ABSTRACT "ARTIFICIAL INTELLIGENCE BASED COVID-19 SPREAD PREDICTION "

In this present invention, The advancement in Artificial Intelligence (AI) developed the healthcare services in diagnosing several diseases and providing cure for it. Al services offered till now is extended with the prediction of pandemic spread of a recent virus that shocked the world. Coronavirus disease 2019 (COVID-19) is a major pandemic that has spread across the world and the control has now been brought by vaccinating the people. The utilisation of AI in the predicting the spread of AI may further avoid the third or fourth wave in densely populated countries. In this proposal, an AI based model is developed to predict the spread of covid-19 spread in a region based on several input parameters. The study is segmented into training and testing module to determine the future spread of covid-19 infections via past collected datasets. The study uses deep learning algorithm to classify the instances and predict the possible spread based on the parameters.

HIGHLY REPUTED JOURNALS;

Name of the faculty: T.Sreenivasula Reddy, Asst Professor, AITS, Tirupati.

Journal Name : International Journal of System Assurance Engineering and Management

Springer

Manuscript Number: IJSA-D-21-01050R1

Title: Intuitionistic Fuzzy Rough Sets and Fruit Fly Algorithm for Association Rule Mining

Abstract

Association rule mining (ARM) is a data mining technique for identifying frequently occurring item groupings in transactional datasets. The frequent item recognition and ARM development are two critical processes in ARM. Association rules are generated using minimum support and confidence metrics. Numerous methods have been projected by scholars for the purpose of generating association rules. In general, a large number of datasets can be evaluated, necessitating an increased number of database searches. Additionally, data analysis may not require all of the characteristics of the input data. The suggested association rule mining project is conducted on seven biological data sets from the University of California, Irvine. As a result, the initial part of this study endeavour employs a dimensionality reduction method that significantly shrinks the size of the data collection. The suggested approach efficiently finds the database's significant properties. To improve classification performance, the proposed approach eliminates extraneous features from the UCI database. The projected technique for dimensionality reduction is compared to intersection set theory extended frequent pattern (IST-EFP) and dimensionality reduction via frequency count (DRUFT). The second stage recommends using an intuitionistic fuzzy-rough set (IFRS) in conjunction with the Fruit fly Algorithm (FFA) to identify common items and generate association rules. The suggested algorithm's efficiency is associated to particle swarm optimization (PSO) and genetic algorithms (GA) that are built in accordance with IFRS. Experiments demonstrated that the recommended strategies achieved satisfactory results.

Licence to Publish

Licensee:



(the 'Author')

The Society for Reliability Engineering, Quality and Operations Management (SREQOM), India

and The Division of Operation and

sion of Operation and (the 'Licensee')

Maintenance, Lulea University of Technology,

Sweden

Journal Name: International Journal of System Assurance (the 'Journal')

Engineering and Management

Manuscript Number: IJSA-D-21-01050R1

Proposed Title of Article: Intuitionistic fuzzy rough sets and fruit fly (the 'Article')

Author(s) [Please list all named T. Sreenivasula Reddy, R. Sathya,

uthors! Malikhariyaana Nika

Authors]: Mallikharjunarao Nuka

Corresponding Author Name: T. Sreenivasula Reddy

2. Name of the faculty : T.Sreenivasula Reddy, Asst Professor, AITS, Tirupati.

Journal Name : Inder science submissions

Manuscript Number :IJICT -103787

Title: Colossal Pattern Extraction using optimized Length Constraints based on Differential evolutionary Arithmetic Optimization Algorithm

Author: Mr. T. Sreenivasula Reddy, Assistant Professor



3. Name of faculty : N. Venkata Vinod Kumar, Assistant Professor

Journal Name : Inderscience submissions

Manuscript Number : IJICT -103787

<u>Title:</u> Green Computing: Efficient Energy Load balancing Technique in Cloud

computing



S NO	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publicati on	ISSN
1	Dr.N.Badrinath	Pervasive computational model and wearable devices for prediction of respiratory symptoms in progression of COVID-19	International Journal of Pervasive Computing and Communications	Jul-20	1742- 7371
2	Dr.N.Badrinath	The Comparative Analysis of Machine Learning Techniques for Gestational Diabetics Prediction	International Journal of Advanced Science and Technology	Jun-20	2207- 6360
3	Dr.K.Navaz	LabVIEW-based performance improvement of servo vacuum booster using programmable logic control	International Journal of Vehicle Autonomous Systems	Jul-21	1741- 5306
4	Dr.K.Navaz	Optimization for connectivity and coverage issue in target based wireless sensor networks using an effective multiobjective hybrid tunicate and salp swarm optimizer	International Journal of Communication Systems	Feb-21	1099- 1131
5	Dr.K.Navaz	Integrity and Load Balancing in Big Data Systems	Test Engineering and Management	Mar-20	0193- 4120
6	B Rupa Devi	Detection of Pneumonia Using Deep Transfer Learning	International Journal of Advanced Trends in Computer Science and Engineering	Oct-20	2278 – 3091
7	Akepati Sankar Reddy	"A Comparative Study and Analysis of Image Denoising methods: Principal Component Analysis with Local Pixel Grouping and Nonlocal Multi Task Sparse Learning"	International Journal of Analytical and Experimental model	Jun-20	0886- 9367
8	AkepatiSankar Reddy	Study and Analysis of Multispectral Image Denoising Methods: Optimized Vector Bilateral Filter and Adaptive Cuckoo Search Based Wiener Filter	Journal on Information and Computational Science	Jun-20	1548- 7741
9	M. ReddiDurgaSree	Hybrid Quantum Cryptography Scheme to Enhance the security in DIGILOCKER	Alochana Chakra Journal	Jun-20	1548- 7741
10	Mr. N Venkata Vinod Kumar	Binary Priority Outlier Classifier Based Outlier Elimination	Turkish Journal of Computer and Mathematics Education	Apr-21	4261- 4266

PUBLICATIONS:

JOURNALS:

1.AUTHOR: DR. N. BADRINATH

TITLE: Pervasive computational model and wearable devices for prediction of respiratory symptoms in progression of COVID-19

ABSTRACT:

The purpose of this paper is to provide a model for prediction of respiratory symptoms in the progression of COVID-19, social distancing, frequent hand washes, wearing of face mask in public are some of the potential measures of preventing the disease from further spreading. In spite of the effects and efforts taken by governments, the pandemic is still uncontrolled in major cities of the world. The proposed technique in this paper introduces a non-intrusive and major screening of vital symptoms and changes in the respiratory organs.

Design/methodology/approach

The novel coronavirus or Covid-19 has become a serious threat to social and economic growth of many nations worldwide. The pace of progression was significantly higher in the past two months. Identified by severe respiratory illness, fever and coughs, the disease has been threatening the lives of human society. Early detection and prognosis is absolutely necessary to isolate the potential spreaders of the disease and to control the rate of progression.

Findings

Recent studies have highlighted the changes observed in breathing characteristics of infected patients. Respiratory pattern of Covid-19 patients can be differentiated from the respiratory pattern of normal cold/flu affected patients. Tachypnoea is one among the vital signs identified to be distinguishing feature of Covid-19. The proposed respiratory data capture will commence with facial recognition, use of infrared sensors and machine-learning approaches to classify the respiratory patterns, which finally narrows down as a symptom of Covid-19.

Originality/value

Proposed system produced outcome of 94% accuracy, precision, recall and a F1-measure as an average in the conducted experiments. This method also proves to be a fruitful solution for large-scale monitoring and categorisation of people based on the symptoms.

2. AUTHOR: Dr.K.Navaz

<u>Title</u>: LabVIEW-based performance improvement of servo vacuum booster using programmable logic control

ABSTRACT:

The issue of safety is very paramount in any automotive system, especially in automotive braking systems. Nowadays this safety is being somewhat overlooked as the efficient testing is not being performed on the braking systems. Nowadays it is one of the challenging tasks and keeps interest among researchers. In recent days, the researchers focused on designing the braking system which is dependent on servo vacuum booster. In this paper, we intend to aid a model to monitor the servo vacuum booster performance and also to improve the performance of the system. The virtual environment LabVIEW is the tool used to calibrate the system under test. The input stroke which is the replicant of the pedalling motion will be given through the servo motor at the rate required which is helpful to control the Programmable Logic Control (PLC). The parameters under measurement such as performance jump in and threshold which are required for efficient braking system can be set by PLC programming in RS Logix 5000 software. Meeting the requirements while testing the servo vacuum booster will be considered as effective with no flaws and can be further processed.

3. AUTHOR: Dr.K.Navaz

Title : Optimization for connectivity and coverage issue in target based wireless sensor networks using an effective multiobjective hybrid tunicate and salp swarm optimizer

ABSTRACT:

The two main important issues in designing target-based wireless sensor networks (WSNs) are coverage and connectivity maximization. In order to tackle the coverage and connectivity problems, we have proposed a hybrid optimization-based model. Thereby, the target-based WSNs can include the sensor nodes which are placed based on determining minimum number of selected potential positions. To do that, an optimization approach based on a hybrid tunicate swarm optimizer (TSO) and salp swarm optimizer (SSO) is proposed for coverage and connectivity problems in WSNs. Feature exploitation ability of SSO is improved by TSO operators, because these operators can act as local search operators. Basically, these hybrid algorithm operators are used to derive the fitness function followed with the solution representation step. Initially, the population is generated, and the hybrid tunicate swarm optimizer and salp swarm optimizer (HTSS) algorithm has updated the solutions in the next subsequent step. Ultimately, the nondominated solutions are determined in the final step. The

two different scenarios of WSN are used for simulation of this scheme. Simulations have shown its outstanding performance in solving the coverage and connectivity problems in wireless networks. This paper proposes a coverage and connectivity optimization problem based on a hybrid tunicate swarm optimizer (TSO) and salp swarm optimizer (SSO) in wireless sensor networks. In hybrid algorithm, the feature exploitation ability of SSO is improved by TSO with the help of its local search operators. Simulation was done with two different scenarios such as the random- and grid-based model.

4. AUTHOR : Dr.K.Navaz

Title : Integrity and Load Balancing in Big Data Systems

ABSTRACT:

Huge information gives current need to information stockpiling with an adaptable and dynamic stockpiling that can develop. Data uprightness is the conservation and the assurance of the precision and consistency of information over its whole life-cycle. Information region is the fundamental element for giving quick recuperation of information in the capacity condition. In the current work, Meta Data Indexing and Integrity Checking are utilized for traffic burden adjusting and recuperation of lost information part utilizing remote check in distributed storage. The primary disadvantage of the prior framework, it uses dispersed access for checking and recuperation of information, which may once in a while prompts time delay. In the proposed framework, we use TPA based Integrity Verification and Data Recovery, which may help in decreasing the time postponement and traffic befuddle mistakes. The framework utilizes Third Party Auditor, that will be confirm the status of the servers in each occasional interims for the lost association or information. The client documents will be portioned and sent to the servers and the list will be spared in the TPA. The fundamental preferences of the proposed framework is progressively proficient, higher investigative of information records, tedious.

5. AUTHOR: B Rupa Devi

Title: Detection of Pneumonia Using Deep Transfer Learning

ABSTRACT:

Lung diseases are most prevalent cause of death in humans of all ages, and this disorder may occur for different reasons. The newest WHO (World Health Organization) report states that just in the United States over 1 million citizens seek care due to pneumonia and there are nearly ten million cases of tuberculosis worldwide. Perhaps some part of it is lethal due to lack of medical staff or human mistake. The manual analysis of x-ray images is a long process requiring radiological expertise and a large volume of time. Deep learning can play a crucial role in exceeding decision making, detecting marks of disease as well as conducting the initial examination and suggesting urgent cases.

6. AUTHOR: AkepatiSankar Reddy

Title: "A Comparative Study and Analysis of Image Denoising methods: Principal

Component Analysis with Local Pixel Grouping and Nonlocal Multi Task Sparse Learning"

ABSTRACT:

Noise reduction is one of the most important tasks in image processing, which requires recovering the information of the image by removing noise without loss of local structures. In this paper an efficient image denoising scheme by using principal component analysis (PCA) with local pixel grouping (LPG)is presented. For a better upholding of image local structures, a pixel and its nearby neighbours are represented as a vector variable, whose training samples are selected by using block matching based LPG from the local window. In this LPG method, the sample blocks with similar contents are widely used in the local statistics calculation for PCA transform estimation, so that the image local features are preserved after coefficient shrinkage in the PCA domain to remove the noise. In multispectral imaging the spectrum for each pixel in the image of a scene delivers much efficient and reliable information. It has been widely applied to several fields including mineralogy, oceanography and astronomy. In this two stage of PCA-LPG is implemented to get better performance metrics. However, multispectral images are often corrupted by various noises like Gaussian noise, speckle noise and stripe noise. In this study a multispectral image denoising models based on nonlocal multitasks parse learning is formulated A nonnegative matrix factorization (NMF) based algorithm is defined to solve the exploitation of the nonlocal self-similarity across space and the high correlation of the multispectral images along the spectrum via multitask sparse learning. Experimental results exemplify that the proposed methods provide good performance in image denoising which is evaluated and measured by the picture quality indices like peak signal to noise ratio and structural similarity

7. AUTHOR: Akepati. Sankar Reddy

Title: Study and Analysis of Multispectral Image Denoising Methods: Optimized Vector

Bilateral Filter and Adaptive Cuckoo Search Based Wiener Filter

ABSTRACT:

Nowadays, many applications depend on images of high quality to corroborate good performance in conducting their tasks. However, noise goes at odds with this objective as it is an

inevitable issue in most applications. Therefore, it is essential to develop techniques to reduce the impact of noise, while preserving the integrity of pertinent information in images. This work is proposed to broaden the application of the optimized vector bilateral filter and adaptive cuckoo search based wiener filter for denoising multispectral images. Vector bilateral filtering provides a good barter between edge degradation and noise removal when applied to multispectral image denoising. It also provides dynamic range enhancement of bands that have lessen signal to noise ratios. Along the way, a validity argument is provided that why vector bilateral filtering surpass band wise 2 dimensional bilateral filtering in improving or intensifying Signal to Noise Ratio (SNR). The designing of self-tunable 2 dimensional finite-impulse response filters have attracted and initiated many researchers to prospect its effectiveness in various realms of signal restoration applications. In this paper, a 2 dimensional FIR Wiener filter driven by the adaptive cuckoo search (ACS) algorithm is proposed for denoising multispectral images contaminated with the Gaussian noise of disparate variance levels. The ACS algorithm is preferred to optimize the Wiener weights for obtaining the best possible estimate of the desired uncorrupted image. Experimental results shows the performance of optimized vector bilateral filter and adaptive cuckoo search based wiener filter which provides an improved denoising and improved PSNR performance on multispectral images when compared with several other approaches.

8. AUTHOR: M. ReddiDurgaSree

<u>Title</u>: Hybrid Quantum Cryptography Scheme to Enhance the security in

DIGILOCKER

ABSTRACT:

Cryptography is a widely used technique to provide security in large networks. Classical cryptography and quantum cryptography are Two widely used techniques are Classical cryptography and quantum cryptography. Classical cryptography uses simple mathematical methods to provide security. So it is more vulnerable to attacks such as man-in-the-middle attack, eavesdropping, etc. But in classical cryptography digital signatures are used to provide the best authentication. Quantum cryptography uses quantum mechanical properties to provide security. It uses photons and polarization but it requires more communication rounds. So by combing classical and quantum cryptography to show a new combination. Here we can use implicit user authentication, explicit mutual authentication and we can digital signatures to provide the best authentication. DigiLocker is an application generated by the government to provide security for several documents such as Aadhaar, income certificate, etc. So to provide the best security and authentication for DigiLocker we can implement the hybrid classical and quantum cryptography.

9. AUTHOR: Mr. N Venkata Vinod Kumar

<u>Title</u>: Binary Priority Outlier Classifier Based Outlier Elimination

ABSTRACT:

Outliers are records that deviate from normal behavioral pattern. This causes a serious issue when it comes to analysing data. In the recent years there has been great research to identify these outliers. Identifying them not only helps improve analysis of data but also provides many applications. The paper presents a way of indenting these outliers based on priority assigned to the attributes. The priorities are then added for each record in the dataset and the pattern is analysed. A concept based on interquartile range is used to eliminate the outliers. Hence the classifier divides the dataset into two classes: outliers and normal data.

MEMBERSHIPIN PROFESSIONAL BODIES:

S. No	Faculty Name	Designation	Membership
1. 2. 3.	B. Ramana Reddy Dr. S. Jumulesh Ms. D. Dhanya	HOD Assoc. Prof. Asst. Prof	CSI
1. 2. 3.	Dr.S. Jumulesh S. SundaraPandiyan T. Sreenivasula Reddy	Assoc.Prof Asst. Prof Asst. Prof	ISTE (Indian Society for Technical Education)
1.	Dr.S. Athi Narayanan	Assoc. Prof	ISRD
1. 2. 3. 4. 5. 6. 7. 8. 9. 10 11. 12. 13.	Dr. S. Jumlesh Dr.S. Athi Narayanan Dr. K. Navaz Mr. T. Sreenivasula Reddy Mr. N.Venkata Vinod Kumar H. Teja, L. Charitha, K. Divya, G. Kanishka, K. Susmitha, N. Venkatramana, D.Dhanya, S. SundaraPandiyan.	Assoc. Prof Assoc. Prof Asst.Prof	IAENG (International Association of Engineers)
14.	Dr.K.Navaz	Asst. Prof	ICSES
15.	Mr. T. Sreenivasula Reddy	Asst. Prof	CSTA
16.	Mr. N. Venkata Vinod Kumar	Asst. Prof	IFERP

WIPRO Talent Next Program

Wipro Talent next is an advanced Version of Mission 10X to improve the engineering quality by training the faculty on real time oriented and to fill gap between Academic and Industry. Wipro Certified faculty is eligible to train their college students using WIPRO'S resources. Students will be trained on JAVA/J2EE Technologies. Students should be given more hands-on-session coding labs. The main aim of Universities /Colleges is to train the students in such a way to absorb them directly in industry. Internships have to be encouraged from second Year/ third year onwards.

Wipro Certified Faculty:

Name of the faculty	Designation
Mr. B. Sunil Kumar	Assistant Professor
Mr. M. Kiran Moni	Assistant Professor
Mr. T. Sreenivasula Reddy	Assistant Professor

EDUCATIONAL CHANNELS:

Name of the Staff	Department	YouTube Video Links
Mr. B. Ramana Reddy, Assistant Professor & Head	CSE	1. Context Free Grammar-Introduction With Examples Lecture-1 CFG With Examples CFG FLAT TOC CD - YouTube 2. Removing Ambiguity With Examples Lecture- 5 CFG FLAT TOC CD - YouTube 3. Leftmost derivation And Rightmost derivation Lecture- 2 CFG LMD RMD FLAT TOC CD - YouTube 4. Derivation tree/Parse tree Lecture- 3 ByB.Ramana Reddy CFG FLAT TOC CD - YouTube 5. AmbiguousGrammar Ambiguous Language Unambiguous Grammar Examples Lecture- 4 CFG TOC FLAT CD - YouTube 6. Left Recursion Lecture-6 CFG

		FLAT TOC CD - YouTube
		7. Elimination Of Left Recursion
		<u>lecture-7 CFG FLAT TOC CD -</u>
		<u>YouTube</u>
		8. <u>Left Factoring lecture-8 CFG </u>
		FLAT TOC CD - YouTube
		9. <u>Simplification Of Grammar lecture-9</u>
		CFG FLAT TOC CD - YouTube
		10. Elimination of Epsilon Production With
		Examples Lecture-11 CFG FLAT
		TOC CD - YouTube
		11. Elimination Of Useless Symbols With
		Examples Lecture-10 CFG FLAT
		TOC CD - YouTube
		12. Introdution Normal Forms Lecture-13
		CNF GNF CFG FLAT TOC
		CD - YouTube
		13. Turing Machine - Informal
		Introduction/Model of Turing Machine
		Lecture-1 TM FLAT TOC -
		YouTube
		14. Formal definition/Mathamatical
		definition Lecture-2 TM FLAT
		TOC - YouTube
	CSE	1. B-Trees - Data Structures - YouTube
		2. B+ Trees - Introduction, Operations on
		B+ Trees - YouTube
		3. AVL Trees - Data Structures -
		YouTube
Mr. N. Venkata Vinod Kumar		4. Ward Education & Data Processing,
Assistant Professor		Multi Tasking Staff & Other
		Competitive Exams - YouTube
		5. Ward Education & Data Processing
		<u>interview bits - AP</u>
		GramaSachivalayam,
		<u>GramaSachivalayam - YouTube</u>
	CSE	1. https://youtu.be/3qEKtSJyJuM
		2. https://youtu.be/KnCU7a5Anik
Dr. ShaikJumlesha		3. https://youtu.be/dTrigBIL5ZM
Di. ShaikJunnesha		4. https://youtu.be/nWWMyvelU_Y

MASTER OF BUSINESS ADMINISTRATION



DR. HARITHA HOD of MBA

The department, established in 2008 has been able to impart quality managerial competencies for students with qualified, experienced and senior faculty members including Doctorates. The department offers premier professional training that keeps the students in pace with the latest developments in the field of Business Management.

The department regularly conducts Personality Development courses, Soft skill courses and employment oriented courses for providing the students a clear and decisive edge in employability through modular and supplementary programs based on industry tracking and feedback. The department has forged strong Institute-Industry Interface with leading companies to continuously bridge the gap between college education and Industry needs through summer Internships, pre-employment training programs, guest lectures and other Interaction programs. Department is running with student intake capacity of 180.

VISION;

"To achieve academic excellence and entrepreneurial skills in the field of management"

MISSION:

- Strict adherence to the academic regulations & processes for overall development of learners.
- Upgrade physical infrastructure to meet the curriculum needs.
- Enhance industry-institute interactions to acquire professional managerial competencies.
- Strengthen the research to address the challenges of the corporate.

FACULTY DETAILS:

Total No. of faculty: 18

S.No	Faculty	Members
1	Doctorates	04
2	Associate Professors	03
3	Assistant Professors	15

HOD"S PROFILE:



DR. HARITHA HOD of MBA

Department of MBA is headed by Dr.K.Haritha, Head, M.B.A., and Ph.D. She received Bachelor's Degree in 2003 from S.V.University, Tirupati, Completed M.B.A in Sri Padmavathi Mahila Viswavidyalayam, Tirupati in the year 2005. She was awarded Ph.D. in Management in 2016 from JNTUA, Anantapuramu. She has 13 years of teaching and 9 years of research experience.

She has published research articles in various National and International Journals and participated in National and International Conferences. She has guided around 150 M.B.A. Projects. She has Experience in Conducting National and International Seminars. Her current research interest is in the area of HR Metrics and Artificial Intelligence at work place. She is BOS chairman for MBA programme and NAAC Coordinator in the Department.

HOD'S MESSAGE

MBA in today's scenario is considered as a basic qualification for management positions be it in Finance, Marketing, and HR department of an organization. The benefits of pursuing MBA is the exposure to the theories of management, their practical implications and learning the ways to become successful managers in various disciplines. In the present business environment, dynamic managers having vision, resourcefulness and proficiency to face the problems and challenges, and designing solutions are in demand.

The students are adviced to participate in different activities which will help to improve their skills and develop positive attitude. This practical approach helps students to face the highly competitive environment and unleash their full potential.

Best Wishes.

Dr.K.Haritha HOD - MBA

ARTICLE BY FACULTY

FINTECH (FINANCIAL TECHNOLOGY) REVOLUTION:



Dr. N. Chandrika Associate Professor AITS-Tirupati



Fintech refers to the use of technology in terms of new processes, business models, products or applications to improve financial operations. By utilizing specialized algorithms and software, businesses are able to better manage their financial processes and operations. Example: ATMs, were once considered cutting-edge fintech, as were signature-verification technology, which were first utilized by banks in the 1860s. Fintech helps firms manage their financial procedures and operations more effectively. Crowd funding platforms, mobile payments, crypto currencies, block chain, and insurance are all examples of Fintech.

Indian Prime Minister Narendra ji called for a "Fintech revolution" in India with a "security shield" on December 3, 2021, at the launch of Infinity forum on Fintech.

The Indian fintech industry has a cumulative funding of over US\$27.6 billion and is expected to be valued at over US\$150 billion by 2025.

-Amitabh Kant (CEO, NITI Aayog),

FINTECH MARKET IN INDIA

In India, there are approximately 2100 Fintech firms. The Indian market is becoming accepting of super applications. It's also worth mentioning that Big Tech companies like Google, Amazon, and WhatsApp have adjusted their operations in India to give specialized options like Google Pay, Amazon Pay, and WhatsApp Payments. Paytm, a payment app, is also on track to become a Super app.

Major trends driving fintech revolution in India

- Supply side factors
- Governmental initiatives
- Investments in India's Fintech sector
- Investments in India's Fintech sector
- Demographic opportunities in India
- Demand side factors
- Technological advancements

Different Fintech segments in India

- PayTech
- LendTech
- Digital banking
- InsurTech
- WealthTech
- Finance Fintech: The various services that can be provided in this segment include:
 - o Accounting:
 - Procure to pay
 - Quote to cash
 - Taxation
 - Reconciliation
- Regulation Tech

PUBLICATIONS

HIGHLY REPUTED JOURNALS:

1. Name of the faculty : Dr. S. Kishore, Associate Professor, AITS, Tirupati

Journal Name : International Journal of Small and Medium Enterprises and

Business sustainability

Volume and Page numbers: Volume 5, Number 2, issue, Pp.15-41, ISSN: 2442-9368.

<u>Date of publication</u> : July 2020:

<u>Title</u>: Daunting Problems of Micro, Small, and Medium Enterprises (MSMEs)

in India: An Entrepreneurial Perception

ABSTRACT:

This paper purports to review the importance, progress, and major issues being faced by micro, small, and medium enterprises (MSMEs) and the perception of entrepreneurs based on empirical study. It has been recognized as an engine of economic growth and lifeline of the Indian economy owing to its inherent features of potential for huge employment generation, lower investment ,low cost of capital, economic stimulation, empowerment and wellbeing of rural people. The Government has taken several measures to promote MSMEs by starting various flagship programs and initiatives. Besides the promotional measures of the Government, the MSMEs sector is not free from problems due to various reasons. Hence, it calls for an empirical study to probe into various problems being confronted by the entrepreneurs and their perception. The study adopted an empirical survey method with 296 sample entrepreneurs. The primary data reused mainly for analyzing the problems in different aspects namely financial, operational, infrastructural, labour, marketing, and raw material problems and the perceptions of sample entrepreneurs in Chittoor District of Andhra Pradesh. The study observed that apart from the usual problems as mentioned earlier, this sector is suffering from the inability to adopt new technology, global competitiveness, and access to global markets, which are dire need of the day to be addressed..

https://www.scribd.com/document/493759821/Daunting-Problems-of-Micro-Small-and-Medium-Enterprises-MSMEs-in-India-An-Entrepreneurial-Perception

2. .Name of the faculty : Dr. S. Kishore, Associate Professor, AITS, Tirupati

Journal Name : International Journal of Small and Medium Enterprises and

Business Sustainability

Volume and Page numbers: Volume 5, Number 2, issue, Pp.94-121, ISSN: 2442-9368

<u>Date of publication</u>: July 2020

<u>Title</u>: MSMEs in Developing Economies and Their Role in

Achieving Sustainable Development Goals in the Context of Covid19:

A Theoretical Exposition.

Authors: Himachalam Dasaraju; * Kishore Somalaraju; Sreenivasa Murthy Kota

ABSTRACT:

The present paper aims to review the importance, progress and the role of micro, small, and medium enterprises (MSMEs) in achieving the Sustainable Development Goals (SDGs) in the developing economies in the wake of Covid-19. It analyzed theoretically in the context of Indian MSMEs. The vital contribution of MSMEs to broader social-economic objectives, including job creation and poverty alleviation makes them a key priority area for achieving the SDGs. It gained a lot of importance in achieving SDGs in the developed economies in general and in developing economies, in particular, owing to its inherent characteristics of inclusive growth and sustainable development. The employment generation through MSMEs will often directly benefit the poor and vulnerable, particularly women and youth, thereby directly reducing poverty, increasing economic status, and reduce the severity of hungry. Further, it leads to nurturing entrepreneurship, which is an engine of inclusive growth and stimulus for economic prosperity and empowering people. All the developing economies including India has taken several measures to promote MSMEs by starting various flagship programs and initiatives. Apart from the various governmental measures initiated globally, the MSMEs sector is not free from myriad problems and it requires more stimulus to strengthen it further.

http://www.usakti-cisbucs.com/index.php/volume-05-number-02-july-2020/145-msmes-in-developing-economies-and-their-role-in-achieving-sustainable-development-goals-in-the-context-of-covid19-a-theoretical-exposition

3. Name of the faculty : Dr. S. Kishore, Associate Professor, AITS, Tirupati

<u>Journal Name</u> : International Journal of Research and Innovation in Social

Science (IJRISS)

Volume and Page numbers: Volume IV, Issue VI, pp.5-11; ISSN: 2249-2496

Date of publication : June 2020;

Title : Contribution of Travel and Tourism Industry in Indian

Economy

Authors : 1. Dr. S. Dilli, 2 Dr. S. Kishore

ABSTRACT:

Travel and Tourism Industry has flourished in the past few years, significantly contributing to the nation's Gross Domestic Product, foreign exchange earnings and employment. Many developing countries have seen tourism as the major source of foreign exchange earnings. Tourism industry in India is growing and it has vast potential for generating employment and earning large amount of foreign exchange besides giving a boost to the country's overall economic and social improvement. In terms of the countries' share of contribution to global Travel & Tourism growth last year, two countries dominate; one quarter 25% came from China while the USA provided a further 12%. Other major contributors include India with a 6% share, while Turkey, France and Japan each contributed 4% to the sector's growth in 2018. 2019 was another year of strong growth for the global Travel & Tourism sector reinforcing its role as a driver of economic growth and job creation Moreover, tourism is a multidimensional activity, basically a service industry. It would be required that all ways of the central and state government, public-private partnership and voluntary organisations become active partners in endeavour to attain the sustainable growth in tourism in India would become a world player in tourism industry. The present paper elaborates about the contribution of travel and tourism industry in the development of Indian economy. Index Words: Travel & Tourism, Foreign Exchange Earnings, GDP, COVID-19.

https://www.rsisinternational.org/journals/ijriss/Digital-Library/volume-4-issue-6/05-11.pdf

4. Name of the faculty : **Dr. S. Kishore**, Associate Professor, AITS, Tirupati

Journal Name : Think India

Volume and Page numbers: Volume 22, Issue 14, ISSN: 0971-1260

Date of publication : December 2019

<u>Title:</u> Inclusive Growth Through Entrepreneurship Development In

India

ABSTRACT:

The present paper is a theoretical exposition on the need and importance of entrepreneurship development for inclusive growth in emerging economies in general and in India in particular. It provides a brief review on the entrepreneurship development and its role and contribution for the inclusive economic development. The entrepreneurship is a driving force and boosts inclusive growth in all segments through transformation of the economy. It has been assumed immense importance in the economic development of a developing nation like India as well as that of the developed nations. India's economic progress, as a developing economy, is bound up with entrepreneurs who are enthusiastic and committed to maximize production as well as profitability, employment generation and overall economic stimulation for augmenting income levels of the people who are involved directly or indirectly. The role the people and their abilities have to play in this stupendous endeavour is supremely important, and any negligence or under estimation of the human factor would only enfeeble the economic prosperity of the country.

Tapping the many hither to unused and locally available resource is what is immediately required. Consequently, the industrial policies of the Indian Government and the successive Five-y ear plans have reiterated again and again the Government's intention to stimulate and promote the human factor in industrial development. Thus the entrepreneur has become very important as the nerve centre of all economic activity. As per the World Bank Report (2011), the societies that discriminate on the basis of gender have greater poverty, slower economic growth, weaker governance and a lower standard of living. As there exist a strategic linkage between financial inclusion of women and inclusive growth, it may be agreed that women are the drivers of

economic growth and prosperity of any country, including India. Therefore, it is dire need to foster the entrepreneurship for inclusive growth and development of Indian economy.

MEMBERSHIP IN CLUBS AND ASSOCIATIONS:

S.No	Faculty	Designation	Membership
1	Dr. K. Haritha	Asst.Prof	IAAC
2	Dr. N.Chandrika	Assoc.Prof	IAENG, SDIWC
3	Dr. S.Kishore	Asso. Prof	 Life Member (ID: 19IND517501L3) in International Association of Academic plus Corporate (IIAC). Life Member (ID:AP429) in Indian Commerce Association (ICA). Fellow Member (ID: F141/2020) in Indian Academic Researchers Association (IARA).
4	L.Vincent Raj Kumar	Asst.Prof	IAENG(ID:156632),SDIWC(ID:31689)

ACCREDITIONS:

EXTENSION OF NBA ACCREDITATION TO ECE & CSE DEPARTMENTS

Annamacharya Institute of Technology & Sciences, Tirupati, proudly announces that the Expert committee National Accreditation Board (NBA) New Delhi, for further extension of NBA to ECE and CSE Departments. After visited AITS thorough inspection, NBA extends the accreditation to the Departments of Electronics and Communication and Computer Science Engineering up to 30th June 2022. Management, Principal extended their heartful congratulations to all stake holders viz., Alumni, Parents, Students, Employers, and Employees of the Institute.





Articles in Newspapers

AITS TIRUPATI ATTAINED UGC AUTONOMOUS & UNIVERSITY AUTONOMOUS

The University Grants Commission (UGC) has conferred autonomous status on Annamacharya institute of Technology & Sciences, Tirupati for a period of ten years (2019- 20 to 2028-2029) vide letter No.F.22-1/2017(AC) dated 24.06.2019 on 25th June 2019.

UGC had granted autonomous status to the College based on receiving exemplary report on Infrastructure, quality of teachers and quality learning – teaching methodologies from the UGC Expert committee, which had visited the college in the month of April 2019. The "A" Grade accreditation from NAAC and accreditation of a few courses by National Board of Accreditation, New Delhi have enabled AITS-Tirupati to progress towards conferment of Autonomy.

Dr. C. Nadhamuni Reddy, Principal in a statement said that the college has now been given the freedom to design syllabi, introduce new programmes and courses, introduce innovative assessment and testing patterns, conduct examinations and announce results, received development grants from the UGC, to start new courses and enter into academic collaboration with a few universities in top 500 universities of the world. Students graduating from AITS will continue to receive their Degrees from JNTU, Anantapuramu.



News published on conferment of Autonomy

BOARDS OF STUDIES MEETINGS TO DESIGN NEW SYLLABUS

Annamacharya Institute of Technology and Sciences, Tirupati is granted Autonomous status for 10 years from the Academic year 2019-20 by University Grants Commission, New Delhi and the Affiliating University namely JNTUA, Anantapuramu. College Academic Council met recently and formed different Boards of Studies to design new curriculum for B.Tech, M.Tech and for MBA Programmes for the academic year 2019-2020. 50 members of Boards of studies from the IIT, Tirupati, IISER, Tirupati.



Chairman addressing the BOS members



Principal addressing the BOS members

Professors from S V University and SPMVV University and a few from industry along with 50 members from the hosting Institution met throughout the day, Participated in the brainstorming sessions held on the day and have had extensive discussions and devised Engineering curriculum which can benefit the student community at large, Principal told. Sri. C.Gangi Reddy, Honorary Secretary and Correspondent of the Institution also addressed in the combined Boards of studies meeting and expressed his devotion to the development of the Institution. He has opined that the curriculum and the syllabus emerged through the meetings will have better flavor as the senior faculty from the Central / Reputed Institutions also advised and incorporated their thoughts in the regulations.

AN AWARD TO THE PRINCIPAL

Indian Society Technical Education of Andhra Pradesh announced BEST PRINCIPAL OF THE YEAR award on 09th April 2021. Dr. C. Nadhamuni Reddy, Principal, AITS Tirupati is bestowed with this award. He achieved this prestigious award as recognition of his significant contribution to the Institute, a role model to the teaching fraternity and a galvaniser to the student community. Management, Faculty and students expressed their heartfelt congratulations to the principal.



SWAYAM - NPTEL LOCAL CHAPTER

Annamacharya Institute of Technology & Sciences, Tirupati, proudly announces that Swayam NPTEL recognizes the institute as a valuable local chapter in Andhra Pradesh with "A" grade rating, based on the performance in NPTEL Online Certification Courses during July - Oct 2018.

Mrs. K.Sumalatha, Asst.Prof, Dept. of CSE and the in-charge of NPTEL, AITS received the certificate from Prof. Bhaskar Ramamurthy, Director of IIT Madras, Chennai on 19th January 2019.





Mrs.K.Sumalatha, Asst.Prof, CSE, AITS,Tirupati Receiving Award from Prof. Bhaskar Ramamurthy, director of IIT Madras at Chennai

INTERNATIONAL CONFERENCES:

4TH INTERNATIONAL CONFERENCE ON RECENT CHALLENGES IN ENGINEERING AND TECHNOLOGY (ICRCET)

Annamacharya Institute of Technology and Sciences, Tirupati in association with IFERP (Institute for Engineering Research and Publications) has organized 4th International Conference on Recent challenges in Engineering and Technology (ICRCET), during 31st January2019 and 1st February 2019. Dr. C. Nadamuni Reddy, Principal, AITS, presided inaugural event of the Conference and emphasized on the role and significance of Research in Engineering and Technology. He addressed the gathering by stating that it is high time to be excelled in qualitative and creative research in order to develop the country. The chief guest, Dr.VijayTharad, Director Operations Mechanical and Industrial Engineering, Corporate Professional Academy, Hyderabad has stated that quality research is essential source to make the country to lead in the world.



Chief Guest, Dr. VijayTharad, Key note speakers Dr. A.Murali Prasad, Dr.G.P.Ramesh, Sri. A.Siddardh, Director IFERP Sri. C. Abhishek Reddy, Executive Director AEP, Dr. C. Nadamuni Reddy and others during the inauguration.



Release of releasing ICRCET -2018 Souvenir by dignitaries



Professors, faculty, research scholars, students listening to Chief Guest during ICRCET 2018.

Special Guest, Dr. A.Murali Prasad, Professor of ECE, St.Ann's College of Engineering and Technology, wished that students and faculty should develop research as primary goal, especially in Engineering. Another guest, Dr.G.P.Ramesh, Professor of ECE St. Peter's Institute of Technology and Sciences, has expressed that students must utilize the conference in order to develop innovative thoughts. Sri. A.Siddardh, Director, IFERP, Sri. C. Abhishek Reddy,

Executive Director of AITS, Dr. Y. Hari Prasad Reddy, Professor of ME &Convenor ICERT, Professors, research scholars, faculty and students participated enthusiastically in the conference. Later Souvenir was released by dignitaries. Professors, Faculty, students utilized this conference and published their research works in various international journals.

INTERNATIONAL CONFERENCE ON GLASS CEILING

Gender has shaped both the legal and cultural landscapes of countries across the globe. Gender equality as an ideal has always eluded the constitutional provisions of equality before law and equal protection of law. The articulation of the feminist ideology is a reverberation of the intensified women's rights and issues movement across the world. Few women tend to reach positions in the upper echelon of society, and organizations are largely still almost exclusively lead by men. Studies have shown that the glass ceiling still exists in varying levels in different nations and regions across the world. Observing the difference, AITS, Tirupati has organized Three-day International Conference on Glass Ceiling Issues and Challenges on Women Career Development in Educational Institutions from 25th March 2021 to 27th March 2021. Dr. C. Nadhamuni Reddy, Principal, AITS, presided inaugural event of the Conference and emphasized on the role of women in education sector. He addressed the gathering by stating that it is high time to be excelled in qualitative and creative research in order to overcome Glass ceiling hurdles in the path of women development. The chief guest, retired Prof. G.V.Chalam, Nagarjuna University, stated that **Glass ceiling** is something - many times an invisible barrier to success that many women come up against in their careers. He strongly advised the participants that quality research is an essential source in order to come out from its clutches.









Professors, faculty, research scholars, students listening to Chief Guest during ICRCET 2018.



An article in a reputed newspaper

FDP PROGRAMS:

ICT BASED STTP BY NITTTR, KOLKATA

AITS conducted a one week STTP on the 'Modern Manufacturing Systems' (ICT Mode) for the faculty Mechanical Engineering from 18th - 22nd Feb 2019. Dr. Shri Nirmal Kumar Mandal, National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata was the Programme Resource Person. He dealt with the fundamentals and modern manufacturing processes.





Faculty at training

Faculty progress was assessed by evaluating the submitted assignments through online examination.

FTP on DRONE TECHNOLOGY

AITS, Tirupati conducted Faculty Training Program on "DRONE TECHNOLOGY" from 1st November 201 to 6th November 2021. Mr. G. Praveen Rajasekar, CEO of Green Tech Aviation, addressed the audience about a theoretical introduction on Drone Technology. He created some awareness on how physics, Mechanics and Aerodynamics principles that are inter-linked in Drone Technology and are in "Unmanned Aerial Vehicles". Participants gained hands-on-experience in activities such as frame creation, mounting, prop balancing, connecting to the android phone and quad rotor.







SEMINARS:

PROJECT MANAGEMENT

Annamacharya Institute of Technology and Sciences has organized one day seminar on Project Management in the Department of Civil Engineering on 23rd January 2019. Sri. Gnanaraj, Project Manager, Creative turnkey projects, Walmart, Tirupati Project was the Chief Guest for the event. In his address, he said that India is going to become a super-nova nation in near future in the world. There will be a number of opportunities for all technologists, especially for Civil Engineers there will be more greenery in the nation.



. Sri. Gnanaraj, Project Manager, Creative turnkey projects, Walmart, Tirupati Project addressing the students.

Further he stated the importance of Project management for the students of Civil students. He advised that every student must know about the Project Management and Civil Engineering related softwares for best opportunities. Dr. Narasimhulu. HOD of Civil Engineering, created awareness on the softwares that are useful for Civil Engineers. HODs, Faculty and students actively participated and made the event successful.

APPLICATION OF ENERGY DISSIPATING DEVICES IN EARTHQUAKE

RESISTANT STRUCTURES

On 31stJanuary 2020 the Department of Civil Engineering of AITS, Tirupati conducted a seminar on the "Application of energy dissipating devices in earthquake resistant structures" by Dr.

Roman babuOinam, Assistant Professor, Indian Institute of Technology, Tirupati to IVth B. Tech and M. Tech students.



Dr.RomanbabuOinam, IIT Tirupati, Addressing the Students in E Class room

In this seminar, the speaker elaborated the causes of earthquake, and its effect on the building structures by citing various examples. Further, he focused on the problems of Soft-Storey failure of the buildings and the implementation of different strengthening techniques to overcome it. Later Dr K. Narasimhulu, Professor & Head, and the faculty honoured Dr.RomanbabuOinam.



Felicitation to the Guest Dr.RomanbabuOinam by HOD and Faculty members

THE EVOLUTION OF DESIGN AND ROLE OF CONSTRUCTION MATERIALS

AND PRACTICE

On 23rd October 2021 the Department of Civil Engineering of AITS, Tirupati conducted a seminar on the "*Evolution of Design and Role of Construction Materials and Practice*" by **Dr. Roman Babu Oinam,** Assistant Professor, Indian Institute of Technology, Tirupati to department staff, final and third year B. Tech and M. Tech students.

In the seminar, Dr. Roman babu Oinam delivered an expert talk on "Performance Based Design (PBD)" and explained his Research innovations and "standard codes" evolved to make "Seismic Resistant Structures". He revealed that "PBD based design practice" is very much essential in frequently earthquake prone countries to minimize the damages and to increase the life of structures. He also enlisted the usage of various "admixtures" being used in concrete to get the desired properties to withstand in calamities.





Dr. RomanbabuOinam, IIT Tirupati, Addressing the Students in Auditorium



మంగళం(తిరుపతి): భూకంపాలు సంభ వించే దేశాల్లో నిర్మాణాలు పటిష్ఠంగా ఉండేలా ప రిశోధనలు జరగాలని ఐఐటీ తిరుపతి సివిల్ ఇంజినీరింగ్ విభాగం ప్రొఫెసర్ డాక్టర్ రోమన్ బాబు అన్నారు. అన్నమాచార్య ఇంజినీరింగ్ కళా శాలలో ఏసీసీఈ ఇండియా భాగస్వామ్యంతో సివిల్ ఇంజినీరింగ్ విభాగం ఆధ్వర్యంలో శని వారం డిజైన్ నైపుణ్యాలను బలోపేతం చేయడా నికి విద్యార్థి అధ్యాయాన్ని (పారంభించారు.

Felicitating to Dr. RomanbabuOinam

An article on the event

పలిశోంధనలు అవసరం

Finally, Dr.Nadhamuni Reddy, principal and Mr. A.Anil, HOD of the department, and faculty honoured Dr. RomanbabuOinam.

SUCCESS

With the collaboration of SREYAS, NSS Unit organized a seminar on "SUCCESS" on 27th December 2021. Sri. Gnana Kumar, Entrepreneur and Life Coach from SREYAS has motivated the students on "HOW TO GET SUCCESS IN THEIR CAREER".

This seminar was organized in two sessions for first year students. Around 800 students along with Department HODs and faculty participated in the session.









SHORT TERM TRAINING PROGRAMMES: (STTP)

INDUSTRIAL AUTOMATION USING PROGRAMMABLE LOGIC CONTROLLERS AND ELECTRO-MECHANICAL TRANSDUCERS

AITS, Tirupati has organized AICTE, Delhi Sponsored One Week Short Term Training Programme (STTP) on **IndustrialAutomation using Programmable Logic Controllers and** Electro - **Mechanical Transducers** from $09^{th} - 15^{th}$ September, 2019. The dais was shared by Sri. C. Abishek Reddy, Executive Director, Dr. C. Nadamuni Reddy, Principal, Dr. C. Sasikala, HOD of EEE Department and Dr. P. Sai Krishna, Executive Director and Program Coordinator, IIT, Tirupati was the Chief Guest of the Program.





At the outset, Dr.C.Sasikala spoke, Short Term Training Progammes like this will get great experience for the people who are interested to gather advanced knowledge on PLCs. Later Principal opines that youth must develop awareness on latest technical frontiers that are expecting by the industrial experts to make India the best in the world. LaterMr. C. Abishek Reddy, AITS Executive Director expressed that students must utilize Conferences, Seminars, Workshops, STTPs etc., to uplift their knowledge and to develop awareness on surging technologies and contribute to make the vision of Make in India. Later Dr. P. Sai Krishna, Chief Guest addressed the session. He cited the importance of PLCs and said hands-on experience on the programs are very important for learning than theoretical learning. He also advised the students to go for full length session. HODs of all departments and EEE students participated in this program.

SMALL TALKS:

LATEST DEVELOPMENTS IN THE FIELD OF CIVIL ENGINEERING AND IMPORTANCE OF ACCE

On 24th October 2021 the Department of Civil Engineering of AITS, Tirupati conducted a small talk on Latest developments in the field of civil engineering and importance of ACCE by Mr. B. Reddappa Naidu, consultant. He also advised to have a Forum of students and faculty in the style of "student chapter ACCE (I)" to get larger benefits.



Sri. B Reddappa Naidu, ACCE(I) Member, Addressing the Students in Auditorium

LATEST MATERIALS AND TECHNOLOGIES

The Department of Civil Engineering organized a small talk on 24th October 2021 on **Latest materials** being used in concrete by Mr. Durga Rao, Territory Technical Service Manager, Ultra Tech group of industries. He also shared the platform and delivered a talk on and issued the scholarship and "Merit certificates" to meritorious students.



Sri. Durga Rao, Manager, Ultratech Cement Limited, Addressing the Students in Auditorium

<u>SOFT SKILLS TRAINING PROGRAMME:</u>

AITS, Tirupati conducted Soft Skills Training Program on the *Importance of communication skills* on 13th December 2021 to 18thDecember. Mr. Vijay Chandra Bose Komarapu, Soft Skills Trainer, Presently Working as HR in Infosys, addressed the audience that learning English language is not an intricate. Even the students who are graduated in B.Tech, are not getting through campus drives because of lack of good communication skills. In this training Mr. Vijay Chandra Bose Komarapu specially focussed on mental ability, Interview approach methods, Communication Skills, and impact of body language etc.







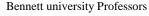
Mr. Vijay Chandra Bose Komarapu, Soft Skills Trainer, giving training to the students

WORKSHOPS:

ARTIFICIAL INTELLIGENCE

AITS, Tirupati organized a two-day workshop on Artificial Intelligence for the students Computer Science Engineering on 2nd March 2019. Prof. Gupta and Prof. Tapas, Bennett University were the Resource persons for the workshop. Dr. C. Nadhamuni Reddy, Principal, AITS, inaugurated the session. Speaking on this, Dr. Gupta said that in this competitive world, Artificial Intelligence plays a vital role to make complex competitions easier through Python programming especially in the fields of agriculture, medical, engineering, etc. through hands-on-session.







Practical session

Later Principal said that by MOU, last year Bennett University Professors gave training to the faculty members of AITS on Artificial Intelligence, Robotics and deep learning research topics through Webinars and also gave an opportunity for 10 students to do their summer internship in that university.

ROBO CAD

A five-day workshop on Robo CAD was organized by the Mechanical Department in AITS Tirupati during 19th - 23rd Feb 2019. Mr. Sainath, Design Engineer, and Mr. Khadar Hussain Technical service Engineer, Design Tech Service Limited were the trainers for the program.



Workshop inauguration and training

Prof. C. Nadamuni Reddy, Principal, advised that, in a rapid growing technical advancements over the Engineering world the students should update the technologies. For this workshop III B.Tech Mechanical Engineering students were participats.

FIVE DAY WORKSHOP on CNC PROGRAMMING

A five-day workshop on CNC (Computer Numerical Control) Programme was organized by the Mechanical Department in AITS Tirupati during 19th - 23rd Feb 2019. Mr. Sainath, Design Engineer, and Mr. Khadar Hussain Technical service Engineer, Design Tech Service Limited were the trainers for the program.



Workshop inauguration and training

Prof. C. Nadamuni Reddy, Principal, advised that, in a rapid growing technical advancements over the Engineering world the students should update the technologies. For this workshop IV B.Tech Mechanical Engineering students were participants.

DIFFERENTIAL GLOBAL POSITIONING SYSTEM

Annamacharya Institute of Technology and Sciences, Tirupati has organised one day workshop on Differential Global positioning System (DGS) on 17th July 2019 for Civil Students. Technical Engineers, Mr Ramesh and Mr. Gopi Krishna from M/s Lawrence & Mayo Pvt.Limited were the resource persons for this workshop. The Resource persons demonstrated to students on how latest techniques and equipments are used for Surveying the land.





HOD and Faculty of Civil Engg. Department with Resource Persons

They suggested the students to apply Differential Global Postitioning System instead of Total station for getting accurate results. They also said that this was first used by the Government of United States of America for Military operations. Dr. C. Nadamuni Reddy, Principal addressed the students and shared the importance of latest technologies and the knowledge of its implementation for getting best jobs in the Global competition. Dr. K. Narasimhulu, HOD, Department of Civil Engg, Prof. Guru Jawahar, Dr.P.Abilash and other faculty participated in the workshop.

ONE WEEK WORKSHOP

Department of ECE organized **One week workshop on Programmable Logic Controllers & its Applications in Automation** from 17th February 2020 to 22nd Feb'2020sponsored by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with SIEMENS Centre of Excellence, Anantapur in AITS campus for its 3rd B.Tech ECE students.

THREE-DAY WORKSHOP on APTITUDE & REASONING

The Department of MBA conducted a three day workshop on 'Aptitude & Reasoning' for first year students on 27th, 28th and 29th Feb 2020. This training program was sponsored by APITA in

the name of Amaravati Knowledge Centre by bringing synergy among the Institutions. During the workshop the students were trained on how to tackle questions on quantitative ability and logical reasoning. Around 72 students were attended the workshop.

Mr.PSVBhupatiraju, APITA was the Chief speaker of this programme. He stated that the significance of workshop was to inculcate a deep sense of awareness with regard to broadening their thought processes and working hard in the direction of being smart thinkers with the ability of quickness in thought. The workshop was aimed to enhance the skills of "Aptitude and Logical Reasoning".

MEEXPLORE -21 AUTOMOBILES WORKSHOP

AITS, Tirupati organized a two-day National workshop on Trouble shooting works on Automobiles for the students of Mechanical Engineering on 1^{st} & 2^{nd} November 2021 . Mr. K.Venkata Muni, Manager, Industrial Engineering, from M/S. Amararaja Batteries Limited, Tirupati was the Resource person for this workshop.



Dr. C. Nadhamuni Reddy, Principal, AITS, along with Mr. K. Venkata Muni and Mr. M. Balaji, HOD of Mechanical Engineering Department inaugurated the session. The main aim of this workshop is to provide training on the trouble shoot of each and every component of two wheeler and four wheeler vehicles. Speaking on this, Principal said that this workshop is an excellent opportunity for the students to upgrade their knowledge and skills so that in this competitive world they can provide employment opportunities to others. Another speaker Mr. K. Venkata Muni stated that, Skill development is very important along with education, so that it helps towards career development. Faculty and students were participated in this workshop.

NATIONAL LEVEL STUDENTS MEET

The MBA department of AITS, Tirupati conducted National level Management students meet called *Ashwamedha-2020* on 18.02.2020 in the campus. The main aim behind this talent search program is to evoke the tremendous talents inherent in students and provide them a platform for takeoff in their career. Students related to different specialization areas in the Management like HR, Finance, Business Planning participated in this event

TWO-DAY WORKSHOP IN MBA DEPARTMENT

The Department of MBA conducted a two-day Workshop on *Advanced excel & Tally erp 9*, for MBA students by M/S. V.S. INFOTECH, Tirupati on 5th February 2020 and 6th February 2020.

Mr. Abubakar and Mr. Jayapal Reddy were the facilitators of this workshop. This workshop has enriched the knowledge of students and enhanced their employability skills in industry orientation. More than 72 students were benefitted by Excel & Tally training. Later, Certificates were issued to the students after their successful completion of training. One of the facilitators said in their statement that this course adds work skills for Commerce background students.

PLACEMENTS:

INFOSYS PLACEMENT DRIVE

Infosys, one of the leading software companies in India conducted placement drive at AITS Tirupati on 23rd January 2019. During the drive Mr. Sasidhar Reddy, Head, Andhra Pradesh, and Telengana States Talent Acquisition, said that there are good opportunities to the young

engineers in their company, hence students must possess skill talents to enter into it. In this drive over all 217 students were selected, among which 61 students are from AITS.



Students of AITS selected for placement in Infosys

Management, members, Principal, Placement team and the faculty members, congratulated the selected students.

CENTINIZEO DRIVE

Techno soft, AR Tech, Centinizeo solutions, IBM, and Centurion companies conducted placement drive in AITS Tirupati. 20 students were selected by different companies. On 26th February 2019, Management members, Prof. C. Nadhamuni Reddy, the Principal, Placement officer, faculty members, students congratulated the selected students and expressed their happiness on the situation.



చీద్^రాలకు 20 మంది ఎంపిక



Principal, HODs, and faculty with selected students

NTT PLACEMENT DRIVE

NTT Data, one of the famous software companies in Benguluru, India conducted pool placement drive at AITS Tirupati on 23rd April 2019. During the drive, Mrs. OormilaKiran,, HR said that 44 students were selected in the drive with a package of 3.5 lakh per annum. In one of her statements, she also announced that the selected students should report to their duties before the

end of April 2019. Prof. C. Nadamuni Reddy, Principal said that there are good opportunities to the young engineers who possess good communication skills and subject knowledge.





AITS selected students with NTT Data recruiters

An article in the Newspaper

Management members, Prof.C. Nadhamuni Reddy, the Principal, Placement officer, faculty members and students congratulated the selected students.

AEGIS GLOBAL PLACEMENT DRIVE

AEGIS Global one of the famous software companies, in Benguluru, India conducted placement drive in AITS Tirupati on 21^{sd} April 2019. During the drive Mr. JaganBabu, HR said that 21 students were selected in the drive with a package of 2 lakh per annum. Prof. C. Nadhamuni Reddy, Principal said that there are good opportunities to the young engineers who possess good communication skills and subject knowledge.



AITS selected students with HODs

Management members, Prof .C. Nadhamuni Reddy, Principal, Placement officer, faculty members and students congratulated the selected students.

VIKE DRIED PLACEMENT DRIVE

VIKE Dried Adventurous Private Limited, one of the famous games software companies, Bangalore conducted placement drive in AITS Tirupati on 12th June, 2019. Seventeen students were selected out of 72 students participated with 2.5 lakhs salary per annum.

Prof. C. Nadhamuni Reddy, Principal, congratulated the selected students and conveyed his gratitude to Mr. Kishore and Ms. Uma Maheswari, Human Resource Managers.

Management, faculty and students made this occasion a grand success.



Group photo of Selected students in



Published news on conducting the drive

GGK TECHNOLOGIES PLACEMENT DRIVE

GGK Technologies Private Limited, one of the famous software companies, Bangalore conducted placement drive in AITS Tirupati on 26th July, 2019. Fifteen students were selected with a pay of Rs. 4.5 lakh per annum.

Prof. C. Nadhamuni Reddy, Principal, congratulated the selected students and conveyed his gratitude to Mr. Akash and Mr. Raghavendra, the Human Resource Managers of GGK.





News published on Recruitment Drive by GGK

HCL RECRUITMENT DRIVE: TIRUPATI

HCL, one of the famous software companies, Banguluru conducted placement drive in AITS Tirupati on 3rd August, 2019. Sixty three students were selected out of 450 students participated from Annamacharya group of Institutions with a pay of Rs. 3.5 lakhs per annum.



Group Photos of selected students in HCL placement drive

Management of Annamacharya group, Sri C. Gangi Reddy, Chairman, Mr. Abhishek Reddy, Executive Director, Dr. C. Nadamuni Reddy, Principal and Placement officer congratulated the selected students and expressed their happiness and said that this could be possible through a vigorous campus recruitment training conducted in the campus by industry experts over a period of two months imbibing with students determination got success. Principal also expressed his gratitude to Mr.Karthiban, senior HR, HCL, Banguluru.

CAMPUS DRIVE for EMPLOYMENT IN LEGATO

LEGATO, Bangalore conducted a placement drive in AITS Tirupati on 08th January 2021. Sixteen students are selected from the Department of computer Science Engineering with 4.5.Lakh per annum salary. The Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource Manager.

WIPRO CAMPUS PLACEMENT

Wipro, Bangalore organized Talent next program in AITS, Tirupati campus for ECE and CSE students. The company has given training for a period of three months in Java. Around 100 students were participated. The company officials selected 38 students with a package of 3.65 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.

TCS POOL CAMPUS PLACEMENT

TCS, Bangalore conducted a Pool Campus drive on 15th February 2021. Fifteen students are selected from the Department of computer Science Engineering with 3.6.Lakh per annum salary. The Management,Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.

INFOSYS POOL CAMPUS DRIVE

Infosys, Bangalore organized Pool campus drive in AITS, Tirupati campus for all branches 2021 passed out students on 20th March 2021. Around 78 students were participated in the drive. The company officials selected 12 students with a package of 3.5 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.

BYJU's ON CAMPUSDRIVE

BYJUs organized on campus drive in AITS, Tirupati on 1st June 2021. 52 students were attended the interview. The company officials selected 03 students with a package of 6 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.

ACCENTURE OFF CAMPUS DRIVE

ACCENTURE off campus drive held on 5th June 2021 in AITS Tirupati campus. 35 students from ECE and CSE departments attended the drive. 10 Students selected with 4.5 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.

DXC ON CAMPUS DRIVE

DXC Technologies conducted on campus drive for 2022 graduates in AITS campus on 12th July 2021. Around 180 students from all departments attended the interview and 35 Students were selected by the Company officials with a pay of 4.0 Lakh per annum. The Management,

Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.



Selected students in DXC company



D MART DRIVE

D MART conducted a campus drive for 2021 MBA Post graduates in AITS campus on 24th August 2021. Ten students were selected in this drive by the Company officials as Department Managers with a pay of 3.0 Lakh per annum. The Management, Principal, and faculty congratulated and expressed their heartfelt thanks to Human Resource Manager.



Selected students in D Mart drive

DAI-ICHI CAMPUS DRIVE

Star Union DAI-ICHI Life insurance conducted a campus drive for 2022 MBA Post graduates in AITS campus on 28th August 2021. 10 students were selected as Relationship Officers in this drive by the Company officials with a pay of 3.0 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.



Selected students in Star Union Dai-ichi Life Insurance.

TCS OFF CAMPUS DRIVE

TCS organized Off campus drive in AITS, Tirupati on 12th September 2021. 150 students were attended the interview. The company officials selected 25 students with a package of 3.36 Lakh per annum. The

Management, Principal, and faculty congratulated the selected students and expressed their heartfelt thanks to Human Resource manager.



WIPRO PLACEMENT DRIVE

Wipro Talent next and National Talent hunt campus drive held on 15th September 2021 and 25th October 2021 in AITS. 225 students from all departments were attended the interview. The company officials selected 33 students with a package of 3.5 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed heartfelt thanks to Human Resource manager



HEXAWARE PLACEMENT DRIVE

HEXAWARE on campus drive held on 28th September 2021 in AITS, Tirupati. 120 students from ECE and CSE departments were attended the interview. Eight students were selected by the company officials with a package of 4 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed heartfelt thanks to Human Resource manager



MPHASIS PLACEMENT DRIVE

MPHASIS on campus drive held on 25th October 2021 in AITS, Tirupati. 145 students from ECE, EEE and CSE departments were attended the interview. 61 students were selected by the company officials with a package of 4 Lakh per annum. The Management, Principal, and faculty congratulated the selected students and expressed heartfelt thanks to Human Resource manager.



INTERNSHIP PROGRAMMES:

SMART-BRIDGE INTERNSHIP PROGRAMME

Smart Bridge in collaboration with IBM, powered by 'Hello Intern' organized four-week Summer Internship Program - 2019 at AITS, Tirupati campus for AITians from 03rd June, 2019 to 29th July, 2019. The internship program was organized on the latest emerging technologies such as Artificial Intelligence - the pace of progress, Internet of Things - the automated world, and Machine Learning - intelligent computer.

This program made the students to compete in Hackathon events. Trainers who trained on IoT with IBM







Cloud for internship gave training on Internet of Things (IoT) &IoT Applications, IoT Devices & Open Hardware Platforms, IoT Communication Technologies & Protocols, IoT Platforms & Architecture, Application Development with Node-RED & MIT App Inventor, IoT Gateways & Gateway Programming, Cognitive Computing with IBM Watson Platform, and Build IoT use cases.





Newspaper article on the event.

Students who selected AI/ML with Python and IBM Watson Studio are trained on Introduction to Machine Learning, Python Programming, Python for Data Science, Importing Data in Python, Getting Started with Machine Learning, Supervised Learning – Regression, Supervised Learning – Classification, Python for AI, Introduction to Neural Networks, Working with Keras Framework, Convolution Neural Networks, Recurrent Neural Networks, Natural Language Processing, Explore IBM Watson Studio, and Project Development etc. Around 300 students from AITS Tirupati and AITS Rajampet were participated and enriched through this internship program.

PLACEMENT TRAINING CLASSES

In order to place in good positions in different corporate companies AITS, Tirupati organized one week placement training classes to the students in colloboration with from Andhrapradesh Information Technology Academy (APITA) and Nandi Foundation and Mahendra Pride classroom. During the inauguration of the session Mr. P. Lakshmi Prasad expressed that as per the CM orders the classes are conducting to the students. AITS Placement Officer Mr. Lakshmi Narayana, Placement trainers Mr. Ganesh, Kishore, Hari and Vijay took part in the program.





ASSOCIATIONS:

FARADAY'S ELECTRICAL TECHNICAL ASSOCIATION

The FETA's concluding Carnival, FETA 2019 was held in Electrical and Electronics Engineering Department on 25th February 2019 in AITS Tirupati. Speaking on this occasion, Chief Guest, Mr. C. Kuppaih, Deputy Executive Engineer, A.P Transco addressed the students. In his speech he said that one cannot imagine this planet without electricity. As it is a part and parcel of life, every EEE student must produce electricity and safe guard the same. He presented the same through PPTs on "Power Grid" topic.





Lighting the lamp by the dignitaries

Mr. C. Kuppaih, Deputy Executive Engineer, A.P Transco addressing the students

Dr. C. Nadamuni Reddy, Principal AITS suggested the students to grow up with planned schedule and must be capable of solving even the most invincible problems with meticulous planning. The event ended up with the prize distribution by Dr. Sasikala HOD, Dept. of EEE.

TECHNO SANGRAAM – 2K19

"Techno Sangraam - 2K19", a two - day National Technical Symposium was organized during 15th and 16th March, 2019 in Annamacharya Institute of Technology & Sciences, Tirupati. The symposium provided a common platform to the learners for exchanging their ideas in the form of Paper Presentations and Project Expo.





Techno Sangraam -2019 Brochure

Techno Sangraam -2019 Orientation Program

Prof. T.S. Natarajan, IIT – Tirupati, was the Chief Guest of the Event, explained to the Students regarding the enhancement of Creative Skills. He felt that, the students need dedication in implementing creative skills which are of very important for the development of personal and professional life.



Prof. T.S. Natarajan, IIT – Tirupati, addressing the audience in Techno Sangraam - 2019

He presented the current scenario of education and its disadvantages where marks play a vital role than knowledge. He urged the parents to educate in this regard and help their wards to thrive in various fields of art and engineering. Later Prof. C. Nadhamuni Reddy, Principal addressed the gathering. He felt that a kind of vision is important while doing Research projects for the development of the Nation. Further,



A newspaper cutting on the event

the Principal congratulated student participants whose papers got selected for publication. He stated that more than 300 papers were received from the students and the tasks of evaluation of selecting papers were done by the experts who are forerunners in their specializations.



Techno Sangraam -2019 souvenir releasing by the dignitaries

Dr. I Sunita, Convener of this symposium expressed her appreciation to Program Coordinators, Faculty and Editorial committee for their precise and highly professional work. On this occasion, the souvenir of the symposium proceedings was released by the dignitaries.

Parallel sessions were conducted. Students belonging to ECE, EEE, CSE, Mechanical and Civil departments were presented their papers. As a part of the grand event, the Department of Management Studies also conducted paper presentations and students from different colleges participated. Dr S Kishore, Department of Management studies acted as the Jury member. Cash Prize and Certificate of appreciation were given to the best paper presenters.







Principal and HOD of MBA Department are giving prizes to the winners.

Later, competitions were also conducted on the spot events like Dumb Charades, Dubsmash, Nature Photography, Short Films etc. Students from other states also participated in large numbers. The event was a huge success in all fronts.

LORECRON – 2K19

The Department of Computer Science Engineering in AITS Tirupati has conducted a National Level Technical Symposium on 29th March 2019. Mr. C. Gangi Reddy, Chairman has inaugurated the session by lighting the lamp. He addressed the students that Software available in the market is of open source, in future, the opportunities may diminish in reputed companies.



Hence he advised the students that one must build their own business and for that he/she has to be good in academics and update knowledge. He also stated that passion, perseverance and patience are three important aspects for a person to prosper. He congratulated students and faculty for conducting this type of events where students could self-assess their skills and compare with others.



Sri.C.Gangi Reddy, Chairman addressing the session



Prof. C. Nadamuni Reddy, Principal, addressing the students

Later, Dr. C. Nadamuni Reddy, Principal wished all the participants and advised them to be continuous learners. He also stated that strong determination and vision are important in the life of a person.

Around 450 students from different colleges were participated in the event. Students did paper presentations on various topics. Competitions were held in Technical quiz, coding and debugging and many spot event conducted



Winners in competitions receiving prizes

Ms. B. Rupa Devi, Head, Department of CSE motivated students to participate in technical symposiums and utilize the opportunity to improve the technical Skills. Later she also congratulated the winners in the competitions and gave prizes. She thanked one and all for making the event successful.

AWARENESS PROGRAMMES:

APPECMA QUALITY EDUCATION PROGRAM

Under the sponsorship of AITS Tirupati, Andhra Pradesh Private Engineering Colleges Management Association APPECMA conducted a program on Quality Education in Private Engineering colleges at Srinivasa auditorium, S.V.University, Tirupati on 30th January 2019. The Chief Guest, Prof. S. Srinivas Kumar, Vice Chancellor of JNTU Anantapur, has explained that JNTU Anantapur is providing effective guidelines to promote quality education and career prospects for upcoming engineers. He continued that all the affiliated colleges of JNTU Anantapur are committed and aiming at quality education. Apart from that students can also enrich their skills through SWAYAM and NPTEL online lectures to promote themselves to be better in their fields. He also stated that engineering education plays a pivotal role in the development of the nation. On this occasion, Prof..G.JanakiRamaiah, the then Vice Chancellor Incharge of Sri Venkateswara University, opined that engineering graduates have broad career prospects in the coming years. Prof. K. Hemachandra Reddy, JNTUA, has made the audience spell bound with his speech. Referring to the recent studies, he said that since India has the world's largest youth population, the world is looking at our Engineers' work. Irrespective of disciplines, plenty of opportunities are available for engineering graduates who are with a zeal to update their knowledge he concluded speech by stating that within a few years, around 7 crores of jobs will be created in different engineering sectors.



Dignitaries of APPECMA on dais and the audience in gallery during the Program

Another speaker Sri. PC Pradhan, CEO of SAKSHAM Training and Facility Management Pvt. Ltd., has explained that a wide variety of opportunities are available in the core areas of engineering and students can fulfill their dreams through engineering. Later, Sri AbhijeetBhallurkar, MD Targetorate Consultancy Hyderabad, has explained about the availability of tremendous job opportunities for technocrats in the multinational companies and expecting skill requirements from the students. Sri C. Gangi Reddy, Vice President of APPECMA and the Founder and the Secretary of AnnamacharyaEducational Trust stated that APPECMA is committed and striving hard to promote quality education and employment in engineering colleges in Andhra Pradesh. He said that since technical education in our country has become quite dynamic as well as feasible, the colleges must be equipped with the required abilities and capacities to make students to reach the pinnacle of success.



Clippings of news published in leading Print media

Speaking on this, Sri. N.VijayBhaskar Choudary, General Secretary of APPECMA, said that the engineering graduates have various job opportunities than any others. Sri. Jagan Mohan Reddy, Joint Secretary and Sri. Nedurumalli Ram Kumar, Convener, APPECMA, Nellore District, explained the feasibility of studying engineering in AP rather than going to other states. The

managements of different engineering colleges in Rayalaseema region actively participated in the programme. Around 2500 Students participated and fetched benefit through this programme and made this event a grand success by showing their enthusiasm.

PROJECT SPECIFICATION SKILLS

AITS, Tirupati organized an awareness program on Project Specification skills on 7th February 2019. Mr.Pradhan, Saksham Training and Facility Management, Benguluru was the Chief Guest for the Program. The program was conducted exclusively for IV B.Tech students. He suggested the students to follow some guidelines while submitting their Project works. He also said that along with communication skills and leadership qualities - pre-hand information regarding the companies play a vital role during the placements in reputed organizations. Later, Dr. C.Nadamuni Reddy, Principal, addressed the participants by stating that every student must utilize such type of awareness programs on Project Management Skills and implement the same in their creative projects.





Mr. Pradhan, Saksham Training and Facility Management, Benguluru giving training to the students in the Seminar

SUMMER INTERNSHIP

In order to conduct four weeks Summer internship program, Smart Bridge Education Service Private Limited in collaboration with IBM organized an awareness program at AITS, Tirupati campus on 18th February 2019. Mr. Amarendra, CEO of the Company stated that the students can enhance their knowledge on Internet of things (IOT), Artificial Intelligence (AI), Machine Learning (MI), Embedded Systems and Cloud Computing Development by Industrial experts in this four- week summer internship program. He also said that the enrolled students in the program may get Training and Internship certificates. Another Speaker Mr. Yuktesh, Sr. Software Advocate, suggested the students to utilize the opportunity for their career growth and also announced that the program will commence in May 2019 and August 2019.





Mr. Amarendra CEO of S B ES P L addressing the students

SUMMER INTERNSHIP PROGRAM

AITS organized an awareness program on Summer Internship on 18th February 2019 by IBM People. MrYuktesh from IBM was the Chief Guest of this program. He interacted with the students of CSE department and motivated them and given awareness on Internship & its role in placements. HOD, Professors, faculty and students of CSE Department attended the program.



Students in seminar

AWARENESS CAMP ON VOTING

AITS in collaboration with The New Indian Express (TNIE) organized an awareness camp on voting for students on 28th March 2019. Retired IAS Officer and Sri Venkateswara Employees Training Academy (SVETA) Director N. Mukteswara Rao was the Chief Guest of this awareness program. He said that the architects of the Indian Constitution gave importance to the Representation of the People Act, 1951, which provides voting right to every Indian, irrespective of their caste, creed and Religion.

Further he enlighted the students on the Parliamentary democracy, where the elected government is accountable to its subjects. He also stated that India is the only country in the

world, where there are many young voters. He urged the first time voters to cast their votes in the ensuing elections.



Articles in Newspapers

Later Sri. C. Gangi Reddy, Founder and Secretary, AITS exhorted the students to educate their neighbours about the right to vote. He also stated that the voting is the most powerful weapon in a democracy and urged both urban and rural workers to exercise their franchise. Although millions of people vote, every vote counts to select the right candidate for the country. The process of voting acts as a gateway to various forms of civic engagement, especially when young people face massive challenges such as unemployment, student loans, and educational policies. If we support and encourage them to vote, it will certainly help raise a new and modern generation of responsible citizens who will actively get involved in building a prosperous nation.

Further AITS in-charge Principal Prof. Satyanarayana said voters can also utilize NOTA (None of the Above) option if they do not want to vote for any candidates in the fray.

Later students interacted in question and answer sessions and the representatives cleared their doubts on the election process. The Program was concluded with Vote of Thanks by Sri. K. Srinivasa Rao, Branch Manager, TNIE, Tirupati.

LLR MELA

Under the supervision of RTA (Road Transport Authority) the AITS, Tirupati conducted LLR Mela in AITS, Tirupati on 23rd March 2019. In a statement, RTA authorities seriously warned the students that no individual is authorized to drive a motor vehicle in a public place unless he/she holds a valid Driving Licence issued by the Licensing Authority. Further Principal said

that in order to avoid road accidents for every motor cycle driver LLR is a must. Because the rider must be well aware of traffic rules and regulations.





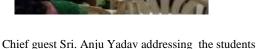
RTA officials are conducting LLR online exam

He asked the faculty and students to avail this opportunity because RTA department conducts online exam for LLR in the campus. Around 200 members got benefitted through this Mela. Principal, Faculty and students extended their gratitude for conducting such a program on the campus premises.

AWARENESS PROGRAMME ON ANTI- RAGGING

AITS::Tirupati conducted an awareness program on Anti-Ragging in the campus on 24th August 2019. Sri. Chandra Sekhar, DSP, and Mrs. Anju Yadav, Circle Inspector of Police, Renigunta were the guests for this programme. Speaking on this, Mrs. Anju Yadav said that today the technology plays a key role in the lives of the people. Hence students must take acute care while dealing the technology. She also warned the students not to involve in any kind of ragging – it leads to severe punishments. Further she stated Women are subjected to harassments and threatened by unknown miscreants in the cyber world.







News published on the awareness programme

They even hesitate to discuss the issues with their family members and even friends. For those women, the police department is taking several initiatives to reach out such situations. 'Cyber

Mithra' wing will offer help with just a click. She has given toll-free numbers (112 and 181) and a WhatsApp number (9121211100) to the students and also appealed the students to form clubs in educational institutions and spread awareness on Cybermitra through Kala Jathas and flash mobs. She also clarified some doubts raised by the Students . Principal, HODs, Professors and senior faculty felicitated the Chief Guest.

PERSONALITY DEVELOPMENT PROGRAMMES:

MASTER YOUR MIND

Annamacharya Institute of Technology & Sciences, Tirupati organized Master your mind a Personality Training Program on 13th September, 2019. Motivational speaker and the film actor Mr. K. Pradeep Kumar is the Chief Speaker for this programme. At first the programme was initiated by Dr. C. Nadamuni Reddy, Principal. He analyzed a detailed report on "Why Engineering students are not getting successful" in their profession.



Dr. C. Nadamuni Reddy addressing the students

Later Sri. C. Gangi Reddy, Chairman of the college addressed the students. In his speech he said that Education without discipline is not useful for ones development. Hence he asked the students to get motivate by listening great speeches from different motivational speakers. He also said that the reason behind organizing this workshop is to show a way forward to the confused youth, to guide and to mentor them to be the better citizens of tomorrow. Hence he asked the students to utilize this seminar which will not only open the gateway of future.



Sri. C. Gangi Reddy, Chairman of the college addressing the gathering

On this occasion Sri. C. Yella Reddy, Vice-Chairman said that the students are very lucky for having good and responsible parents. He asked the students not to forget their roles towards their parents.



Sri. C. Yella Reddy, Vice-Chairman, addressing the students

He wanted the students to have a positive attitude that will lead them to success. Every individual has his or her own talent, and students with competitive spirit and passion can achieve their goals. He told students to adhere to process that comes with an organization. Students were encouraged to have a combo behavior that includes values, strengths, attitude, skill and knowledge. He urged students the importance of communication that expresses their ideas to





Motivational speaker Mr. K. Pradeep Kumar addressing the students

impress where ideas are generating invoice. Performance is the parameter of life and he advised the audience that it has to be assessed and evaluated daily by thy self. Further he added that people all over the world plan to do things in two ways – one mentally and the other physically and the first one is very important for all of us and a lot of mental preparation is a key for success. He continued that the entire world is running after novice technology and being a knowledge partner in technology is a must.

Next speaker Mr. Shiva Kumar, Certified Mind Set trainer handled the session on enhancing the Memory Skills.



Mr. Shiva Kumar, Certified Mind Set trainer addressing the students



The program was concluded with the felicitation of the guests. HODs of various departments, faculty and students took part in this program. Later the dignitaries felicitated the Chief Guest.

NSS ACTIVITIES:

GO GREEN – SAVE GREEN

AITians are Nature lovers. The Management and the Principal of the college have an enormous interest to protect environment naturally. As a part of this, AITS NSS unit Tirupati has conducted a programe called GO GREEN – SAVE GREEN on 24th July, 2019. Speaking on this occasion, Sri. C. Nadamuni

Reddy, Principal said that "Instead of giving lectures on deforestation it is better to plant more and more saplings. Hence it is the responsibility of every student to plant and protect the saplings around their areas." He also requested the NSS Volunteers and the students to continue such practices for building pollution free environment. The program came to an end with the Vote of thanks by NSS Coordinator Mr. N. Harish.



AITS NSS UNIT

BLOOD DONATION CAMP

Under the supervision of Dr. Sandhya and Dr. Suresh Babu, SVIMS, Tirupati, AITians organized Blood donation camp on 18th September 2019 at AITS, Tirupati. Around 200 members comprising of students and staff donated blood in this blood donation camp. Speaking on this event, Principal said that Donating blood is a vital way to save lives. A single donation can save three lives. He also added that, One blood donation provides different blood components that can help three different people. NSS Program Officer Sri. P. Harish, NSS Coordinators, students and faculty participated in this program.



Blood donation camp at AITS college

VACCINATION DRIVE

Aspiring to contribute more to existing 3.5 crore vaccinated population of the State, the NSS unit of Annamacharya Institute of Technology & Sciences-Tirupati, has organized a mega vaccination drive in its campus on 17 and 18th of September 2021. By following directions from the Chief Medical Officer of Andhra Pradesh and with the support from Medical officer & Mandal Parishad Development Officer of Renigunta, AITS aimed to vaccinate at least 500 members. As students are entering into the campus on offline mode for attending the classes and attending exams the management suggested the students faculty, staff and general public living around the campus to best utilize this vaccination drive.





Inaugurating the Vaccine drive, Dr. C. Nadhamuni Reddy, Principal insisted that all connected to the Institution be fully vaccinated at the earliest to reduce the risk. He also thanked the State and District administration, who have responded to the Institution's requirement request swiftly.

SANITIZATION DRIVE

In order to eradicate mosquitoes, NSS unit organized a *Sanitization Drive* in Venkatapuram Village on 18th December 2021. The NSS Volunteers of AITS college have been making very valuable contribution to the society besides developing their own personality. They have played a key role on sanitizing the entire village. On this Occasion Principal Dr.C. Nadhamuni Reddy addressed the gathering of NSS Volunteers and explained the importance of eradication of mosquitoes. In this programmeDr.C.Nadhamuni Reddy, NSS PO P.Harish and Volunteers participated





SWACHH BHARATH

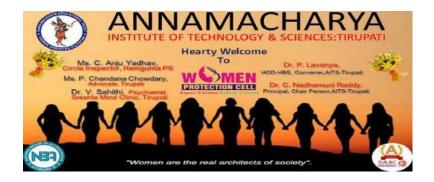
SwachhBharath (Cleanliness drive) was conducted at college campus on 24th December 2021. The process of cleanliness was conducted under the able guidance of NSS PO Mr. P.Harish. Around 100 students and support staff were part of this program.



WOMEN PROTECTION CELL:

ESTABLISHMENT OF WOMEN PROTECTION CELL

In order to protect the women staff and students associated with the college from all sorts of injustice or sexual harassment of any nature directly or indirectly, Women protection cell has been established in the campus of Annamacharya Institute of Technology and Sciences, Tirupati on 01st July, 2021.



Women Protection Cell, AITS, Flyer

Dr. P. Lavanya, Convener, Dr. N. Pushpalatha, Member, Prof. I. Suneetha, Member physically inaugurated WP Cell in the campus. Whereas Dr. C. Sasikala, Member, Dr. K. Haritha, Member, Mrs. B. Rupadevi, Member, Ms. C. Anju Yadav, Member, Dr.V. Sahithi, Psychiatrist, Member and another Member Mrs. P. ChandanaChowdhary, Advocate, Tirupati, and Women Teaching and Non-teaching faculty attended through virtual mode.



Officials are inaugurating Women protection Cell



Dr.P.Lavanya, Convener addressing the house through virtual mode

At the outset, Dr. P. Lavanya, Convener of WPC invited the members and stated that the main purpose of inaugurating the cell is to give voice to the girls and women and

- To help them raise their voice against all sorts of discrimination and harassment.
- To make them aware of their rights.
- To help them change their mindset and develop decision making abilities.
- To make them Self dependent.

Added to that, she stated the Powers of WPC such as:

The woman protection cell can punish the guilty in the following ways:

- Verbal Warning
- Written Warning
- Complaint to their parents
- File an FIR with the police(If the situation arises)
- Expelling from the college as per the rules.

In her address Mrs. ChandanaChowdary said that WP cell is important in every school and college because according to Indian Constitution, Right to Equality is a Fundamental Right. It means that equality between men and women in all spheres like right to work, right to education, right to live, right to choose etc. It is the duty of the college to provide a safe place of work and to protect from sexual harassment, intimidation and exploitation for all women who fall within its jurisdiction.



Mrs. P. ChandanaChowdary addressing the house through virtual mode.

Later, Prof. I Suneetha, Member, said that the mission of Women Cell of AITS is to provide guidelines for protection from sexual harassment and basic right to work with dignity and to handle the related complaints received or referred to the cell.

At the end Dr. Pushpalatha, member ended the program by Vote of thanks. She advised girls and women of the jurisdiction feel free and utilize the services of WPC. For any complaints she has shared a number.

MISS DIVA TALENT HUNT -2021

Beauty with brains is the outcome of "MISS DIVA Talent Hunt 2021", organized on 25th October 2021 under Women Protection Cell (WPC) of AITS, Tirupati. The dais was shared by Dr.P. Lavanya, Convenor, WPC and Dr. C. Nadhamuni Reddy, Principal and the Chairperson of WP Cell. Dr. N. Haritha, HOD of MBA Dept, Dr. J. Guru Jawahar, Prof. Civil Dept were the Jury members of this competition. By addressing the audience Dr. C. Nadhamuni Reddy, Principal stated that the education imbibing with talent and personality is a must to everyone and every girl must empower in their areas. Also, he added that, events like this will unlock the potentialities of the students. Later Dr. P. Lavanya, Convener of WPC addressed the women folk that she stated about the inception of Women Protection cell

in the college campus. She also explained that the main purpose of establishing Women Protection cell is to give voice to the girls and women and

- To help them raise their voice against all sorts of discrimination and harassment.
- To make them aware of their rights.
- To help them change their low mindset and develop decision making abilities.
- And to make them Self dependent.

Later she explained regarding the importance of the event and gave information about various rounds.

The competition comprises of three rounds

Round 1: Looks: Outfit, style, body language, attitude

Round 2: Talent: Registered participants can exhibit any personal talent like dancing, drawing, singing, Magic, Standup comedy etc. for a maximum of 3 minutes

Round 3: Personality: Questions were posed by the judges to each participant and they have to answer those questions.

Round 1:

This round comprises of the looks, outfit of the pageants along with their body language.



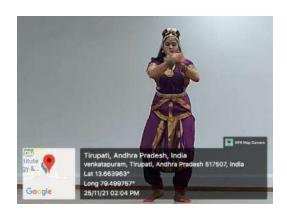






Round 2:

Special talents like dance, Singing , standup comedy, Magic and drawing were exhibited by the pageants depending on their choice.









Round 2: Personal Talent exhibition by participants

Round 3:

Participants were asked various questions reflecting their personality and attitude by the judges.

Round 3: Questions: Personality



Round 3: Personality- Answers given by each pageants for judges questions

The final marks is consolidated by the judges and the participant with maximum marks is identified as winner. Ms.B. Sharmila Bhai of III B.Tech, ECE won the title" **MISS DIVA AITS-2021**". Winner was honored by placing the crown and draping the boutique (badge) by the Principal and the judges.



Honoring the winner MsB.Sharmila Bai with Drapeand crown

Paper Clippings

DRAWING COMPETITION ON "SAVE THE GIRL CHILD"

Save girls, save the girl child, is a campaign in India to end the gender-selective abortion of female fetus, which has skewed the population towards a significant under-representation of girls in some Indian states. To address this issue at the college level, Women Protection Cell in AITS, organized a Drawing Competition on "Save the Girl Child" on 15th December, 2021. Around 200 students were participated in the competition. Winners were selected as per Jury's decision. Later Prizes and certificates were issued to the winners on National Mathematics Day.





INTERNATIONAL WOMENS' DAY CELEBRATIONS

INTERNATIONAL WOMENS' DAY was also celebrated on 8th March 2019 in the campus. Addressed the gathering and emphasized the need for Women empowerment to achieve national growth, Prof. Y.S.Sarada, Department of English, Sri PadmavatiMahila University, Tirupati, expressed her views on Women empowerment and said that woman has a lot of energy and potential and it has to be recognized and respected.



Dr.P.Lavanya, HOD, Dept.of H &S addressing the audience

She felt that woman yet to receive dignity, and identity from all sectors including inside and outside and also opinesthatwomen should enhance their leadership skills to achieve empowerment. She also laidemphasis on girl-child education to put an end to gender discrimination in the society.



Students exhibiting Science projects

On this day, AITS organized Science Expo- 2019 in the campus. Students from all branches exhibited various science projects. Dignitaries visited Science Gala and expressed their happiness. Later Principal, HODs and others felicitated the Chief guests.



Principal, HODs and others felicitating the Chief guests

NATIONAL AND INTERNATIONAL DAYS AND ITS CELEBRATIONS

ENGINEERS DAY CELEBRATION

The 68th Engineers Day was celebrated with great pomp and grandeur at AITS, Tirupati on 15th September, 2019. Dr. K. Hemachandra Reddy, Chairman, Andhra Pradesh State Council Higher Education (APSCHE) was the Chief Guest for this programme. He said that every year students celebrate Sir. Mokshagundam Visweswaraya's birthday, as Engineers day. He also praised the efforts of Sri. M. Visweswaraya as an architect of Projects and dams who hailed from a middle class family.



Dr. K. Hemachandra Reddy, Chairman, (APSCHE)

At the outset Dr. Hemachandra Reddy had given a small talk on "The Role of faculty in Higher Education". While addressing the Faculty community, he stated that Faculty plays a vital role in the lives of students and they must provide the education with values and knowledge. He also said that the Teacher must love their students unconditionally.



Mr. C. Abhishek Reddy, Executive Director of AITS

Speaking on this Mr. C. Abhishek Reddy, Executive Director of AITS, said that He told that one must follow the ideology of this great person and must present themselves as exemplaries to the society. Later Dr. C. Nadhamuni Reddy, Principal addressed the faculty gathering and expressed that Everyone must follow their profession with discipline, obedience and dedication. Further he added that students should excel in innovative and technological skills along with their certificate courses.



Felicitation to the Chief Guest.



An article in the newspaper

IMPORTANT DAYS' CELEBRATIONS:

ENGINEER'S DAY 2021 CELEBRATIONS

The 70th Engineers Day was celebrated with great pomp and grandeur at AITS, Tirupati on 15th September, 2021. In this event Dr. C Nadhamuni Reddy, principal has delivered his speech regarding upgradation of technologies and handling of innovative projects to students.





Later Dr. J. Guru Jawahar, Professor, addressed the students on Technical talk, knowledge sharing and upcoming technologies, further he stated that students must follow the ideology of this great person and must present themselves as exemplaries to the society. He told that engineer-less society is unimaginable and every little thing that we use in our day to day life is the output from the engineers. In this event first year students of Civil Engineering has participated

INDEPENDANCE DAY CELEBRATIONS

AITS-Tirupati has celebrated 73rdIndependance Day celebrations in the college along with students and faculty members. Flag hoisting was done by Vice-Chairman of AET Sri. C.Yella Reddy.

Speaking on this occasion, Vice-Chairman addressed the gathering and advised the students to develop life skills in English communication and in technology.

Later the Principal of the college gave a message that youngsters should develop much awareness on the societal needs because they are the future leaders of the Nation. He also felt, as

the technology is growing faster, instead of spending time on unnecessary things - students must spare their time only for the academics and innovations to get better placements.

The celebrations came to an end with the distribution of prizes to the students who won in different competitions.



Sri.C.YellaReddyhoisting theflag Dr.C.NadhamuniReddy, Principal addressing the gathering

INDEPENDENCE DAY CELEBRATIONS

The college celebrated country's 75th Independence Day to pay tributes to the freedom fighters that fought for the independence of our country. The Principal, Dr. C. Nadhamuni Reddy spoke to the gathering on the real meaning of freedom, stressing that today it is more a freedom for than a freedom from. He emphasized that freedom means to choose the right, the noble, the just, the true, turning from selfishness to selflessness, from greed to generosity, from falsehood to sincerity. Finally he extended warm wishes to the staff and students on independence celebrations.

PEACEDAY CELEBRATIONS

In collaboration with ISKCON, Tirupati, NSS unit organized Peace Day Celebrations in college Campus on 21st September 2021.

The 2021 theme for the International Day of Peace is "Recovering better for an equitable and sustainable world". Celebrated the day by spreading compassion, kindness and hope against Pandemic. As Dalai Lama expressed that "Peace does not mean an absence of conflicts, differences will always be there. Peace means solving these differences through dialogue, education, knowledge; and through humane

ways. Mr. Gnana Kumar, a representative from ISKON expressed that Peace attainment is possible through Meditation. One can gain Light heart, concentration, focus, memory and compassion. He said that love is the centre for peace. Later Principal expressed that one who has peace in himself definitely there will be peace in his home.



On this day Principal restated LAO TZU quote on how world attain Peace. "If there is to be peace in the world, There must be peace in the nations. If there is to be peace in the nations, there must be peace in the cities. If there is to be peace in the cities, there must be peace between neighbours, If there is to be peace between neighbours, there must be peace in the home. If there is to be peace in the home, there must be peace in the heart". Hence he asked all the audience to be peaceful. NSS Coordinator, Mr. Harish, Asst. Prof of ECE, HODS of all the departments, Faculty and staff participated in the event.

REPUBLIC DAY CELEBRATIONS

70 th Republic Day celebrations were held at AITS Tirupati on 26th January 2019 with lots of enthusiasm and patriotism. The Management, Principal, Faculty and the students flashback on the legends who spared their lives during Indian Independence Movement.

Sri. C. Yella Reddy, the Chief Guest and the Vice-Chairman of AET and the Chief Guest of the occasion, addressed the gathering and encouraged the youth by saying that though India is not one among the developed nations stands second largest youth power nation in the world.

He enlightens that today people are living in modern world with developing technologies. Hence one should define themselves in terms of where they are going, not where they have come from. As George Santayana said – those who cannot remember the past are condemned to repeat it. Therefore, the people should reminiscence the past, preserve and commemorate it with the next generations.



Sri. C. Yella Reddy, Vice-Chairman, Dr.C.Nadamuni Reddy, Principal, and others in flag-hoisting event.

Later, the Principal addressed and inspired the gathering by saying that the national leaders are the bright mirrors, hence one ought to follow them. So he believed that the students have to feel responsible both socially and ethically to contribute their best for strengthening equality and fraternity in India. In fact, this is a nice occasion to salute the National Leaders and to honor the National Flag. Different competitions were conducted for students and prizes were distributed to the winners.



Winners of various competitions receiving prizes from the Principal on Republic Day Celebrations.

REPUBLIC DAY CELEBRATIONS

72nd Republic Day celebrations was held at AITS Tirupati campus on 26th January 2021 with lots of enthusiasm and patriotism. The Management, Principal, Faculty and the students flashback on the legends who spared their lives during Indian Independence Movement.

Sri. C. Yella Reddy, the Chief Guest and the Vice-Chairman of AET, addressed the gathering and encouraged the youth by saying that though India is not one among the developed nations stands second largest youth power nation in the world.

He enlightens that today people are living in modern world with developing technologies. Hence one should define themselves in terms of where they are going, not where they come from. As George Santayana said – those who cannot remember the past are condemned to repeat it. Therefore, the people should reminiscence the past, preserve and commemorate it with the next generations.



Sri. C. Yella Reddy, Vice-Chairman, Dr.C.Nadhamuni Reddy, Principal, and others in flag-hoisting event.

Later the Principal addressed and inspired the gathering by saying that the national leaders are the bright mirrors, hence one ought to follow them. So he believed that the students have to feel responsible both socially and ethically to contribute their best for strengthening equality and fraternity in India. In fact, this is a nice occasion to salute the National Leaders and to honor the National Flag.

SCIENCE DAY CELEBRATIONS

National Science Day Celebrations were organized in a grand way at AITS, Tirupati on 27th February 2019. Prof. Ambika, , Chair and Dean of Academics, Department of Physics from IISER, Tirupati was the Chief Guest of this event.



Prof. Ambika, Prof. Y.S.Sarada, Prof. I.Sunita, Dr. P. Lavanya and others during lighting the lamp

She addressed the students by stating 2019 Nations theme "Science for the people and people for the science" on that she said that Nation's development depends upon Science development.



Chief Guest Prof. Ambika addressing the gathering

She also discussed the invention of Raman Effect by C.V. Raman and later works on "Raman Effect". She advised the students that - If we inculcate hardworking culture we can succeed. For that she took Prof. C.V. Raman as an example. She concluded her speech by giving an advice to the students that one must achieve success with dedication and determination as our scientists have achieved.

The Principal suggested the students to inculcate interest in the science and technology where a lot of research work is going on and they have to become part and parcel of country's development.

SCIENCE EXPO - 2020

In order to bring out the innovative talent among the AITS students the management has decided to conduct a "SCIENCE EXPO – 2020" on the occasion of National Science Day. This was

celebrated in a grand way on 26th February 2020. Dr. C. Nadhamuni Reddy, Principal was the Chief Guest of this event. He opined that "Science and Technology is derived from Vedas". Every year, college celebratesNational Science Day to commemorate the invention of Raman Effect by C.V. Raman who received Nobel Prize. He advised the students that one must achieve success with dedication and determination as our scientists have achieved. Principal along with HODs and senior faculty enthusiastically enquired about each working model and posed number of queries to the exhibitors regarding their working models. Later he applauded the exhibitors for their zeal on go real projects. He advised the students to develop real-time projects that are useful for the society. For that college is ready to extend financial help for their projects.





On this occasion, around 22 innovative working models were displayed by the students. HODs of all Departments and Senior faculty acted as jury and selected 4 best models and awarded 1^{st} , 2^{nd} 3^{rd} Prizes and 1 consolation prize based on parameters like Novelty, Physical aspects,

Presentation effectiveness, Documentation quality. Students from all years & branches were participated in this event.

PROJECT EXPO - 2021

In order to bring out the innovative talent from AITS students, the Management has decided and conducted a "PROJECT EXPO – 2021" on the occasion of National Science Day. This was celebrated in a grand way on 26th February 2020. Dr. C. Nadhamuni Reddy, Principal was the Chief Guest of this event. He advised the students that one must achieve success with dedication and determination as our scientists have achieved. Principal along with HODs and senior faculty enthusiastically enquired about each working model and posed number of queries to the exhibitors regarding their working models. He advised the students to develop real-time projects that are useful for the society and assured to extend financial help for their projects.





Principal, Sr.Faculty, students in Project Expo-2021

On this occasion around 27 innovative working models were displayed by the students. Professors of all Departments and Senior faculty acted as jury and selected 4 best models and awarded 1st, 2nd 3rd Prizes and 1 consolation prize based on parameters like Novelty, Physical aspects, Presentation effectiveness, Documentation quality. Students from all years & branches were participated in this event.



A newspaper cutting on the event

YOGA DAY CELEBRATIONS

5th International Yoga Day celebrations was conducted in AITS Tirupati campus on 21st June, 2019. The Principal inspired the faculty and students gathering to follow the principles of Yoga in day-to-day life regularly. He said that youth has become busier than bee and find no time to physical exercise, whereby facing a lot of health issues. Yoga has been the need of the hour - especially professional people should make Yoga as their habit. He said that schools must allot an hour for Yoga for all student community in a day for better physical and mental strengths.

Socrates and Thales Greek philosophersonce said "a sound mind exists in a sound body". Professionals should maintain a healthy mind and a sound body to work with creativity and innovation.

Ms. Supraja, Asst Prof. Dept. of EEE and Yoga trainer trained the faculty and students on Yoga aasanas and meditation. The Faculty, the non-teaching staff and the students participated in the event and made it a grand success.





Principal addressing the gathering

Faculty and students performing Yoga

INDUCTION PROGRAMMES:

INDUCTION PROGRAMME -2021

Annamacharya Institute of Technology and Sciences (Autonomous), Tirupati organized a two week Induction program from 11th January 2021 to 25th January 2021 for the fresh entrants into B. Tech programme as per the usual convention. The objective of the program is to make the students feel comfortable in their new environment, set a healthy daily routine, create bonding in the batch of students, faculty etc, develop awareness, sensitivity and understanding of the self, people around them. The induction program comprised of interesting activities like motivational talent hunt, social sensitization through poster making, team building activities, expert lectures, and debate and campus orientation sessions. Dr.C. Nadhamuni Reddy, Principal spoke about the various aspects of the Induction program. He adviced the faculty members present there to make the lectures as interactive as possible, so that they would come to know about some of the problems faced by the new students. He said that this might help them to jot down common problems and thereby come up with possible solutions. This Induction Program helped to rectify some critical lacunae and sensitize them towards exploring their academic interest and activities

and making them work for excellence, built relations between teachers and students and overall personality development.



The college committee for Induction program invited experts from different subject experts in the institution to interact with the new entrants and brief the learners with their expertise in various fields. Along with expert talks the students were exposed to village visit and industrial visits for catering their social as well as technical side of learning. With the cooperation of the students and the









faculty members the Induction programmewas able to record the feedback of the students on Expert talks, rural visit and Industrial visits. The total involvement of deputed Faculties actively engrossed in various responsibilities of induction programme, that facilitated to motivate the entrants to stir like a sugar in water of institutional activities. Students are made aware about multidisciplinary areas and their developments and developed ability to transcend from subjective knowledge to the application of subject in real life situations. A special session was organized for cultural activities.

INDUCTION PROGRAMME

Annamacharya Institute of Technology and Sciences (Autonomous), Tirupati organized a two week Induction program from 30th November 2021 to 14th December 2021 for the fresh entrants into B. Tech programme as per the usual convention. The objective of the program is to make the students feel comfortable in their new environment, set a healthy daily routine, create a friendly bonding among themselves and get activated by the faculty, develop social awareness, sensitivity and understanding of oneself and people around them. The induction program comprised of interesting activities like

motivational speeches, social sensitization through making projects through waste (DIY), team building activities, expert lectures, and debate and campus orientation sessions. Dr.C. Nadhamuni Reddy, Principal spoke about the various aspects of the Induction program. He adviced the faculty members present there to make the lectures as interactive as possible, so that they would come to know about some of the problems faced by the new students. He said that this might help them to jot down common problems and thereby come up with possible solutions. This Induction Program helped to initiate the student's capabilities and sensitize them towards exploring their academic interest and activities and make them work for not only for academic excellence but also to build intellectual thinking and helped them to improve their overall personality development.





The college committee for Induction program invited experts from different subject experts in the institution to interact with the new entrants and brief the learners with their expertise in various fields. With the cooperation of the students and the

















faculty members the Induction programme was able to record the feedback of the students. The total involvement of deputed Faculty actively engrossed in various responsibilities of induction programme. Students are made aware about multidisciplinary areas and their developments and developed ability to transcend from subjective knowledge to the application of subject in real life situations. A special session was organized for cultural activities.

ORIENTATION DAY

Orientation Program for 1year B.Tech students 2019-20 was conducted on 26th August 2019at AITS, Tirupati. The Dais was shared by Dr.P.Lavanya, HOD of H & S Department,

Dr.C.Nadamuni Reddy, Principal, Sri.C. Gangi Reddy, Chairman and Dr. T.S.Natarajan, Registrar, IIT Tirupati, attended as the Chief Guest of this event.



Dr.C.Nadamuni Reddy, Principal, Dr. T.S.Natarajan, Registrar, IIT Tirupati, Sri.C. Gangi Reddy, Chairman and Dr.P.Lavanya, HOD of H & S Department honored the arena.

At first, the program was inaugurated by lighting the lamp and senior students sung invocation song.



Prof. Natarajan, inaugurating the Orientation day

Later, speaking on this occasion, Principal clearly explained the rules and regulations of the college like importance of attendance, academic structure, enhancing practical knowledge through laboratories and the behavior of the students in the campus, etc.



Dr. C. Nadamuni Reddy, Principal addressing the students

Later Sri.C.Gangi Reddy, Chairman inspired the students with his speech by stating that "Education and Discipline are the root cause for success" hence he asked the students to utilize the state-of-art laboratories, library and available resources to reach success. In his speech he also stated that the Management is committed to arrange placements in the campus and it is the responsibility of the students to sharpen their skill set to become choosy in the "selection process".



Sri C. Gangi Reddy, Chairman addressing the gathering in Orientation programme

Later Dr.P.Lavanya, HOD of H&S Department addressed the students. She detailed every aspect of code of conduct, like the timings, class hours, subjects, faculty, labs, bus routes, etc.She also requested the parents to visit the college to know their ward's performance in academic and behavior in the college.



Dr.P.Lavanya, HOD of H & S Department addressing the gathering

Chief Guest Dr. T.S.Natarajan, Registrar, IIT Tirupati, addressed the students' community. He said that learning through practically gives more benefit than theoretically.



Dr. T.S.Natarajan, Registrar, IIT Tirupati addressing the audience

He cited several examples like learning cycle, driving four wheeler, etc. He pointed out the wrong practices in the present educational system in India as they are focusing on rote learning only for grades rather than knowledge. He practically demonstrated some experiments with liquid Nitrogen gas, rubber ball, leaf etc., that makes the audience how important the practical knowledge is.



Felicitation to the Chief Guest.

News published on the Orientation day

At the end, Sri. C. Gangi Reddy, Chairman, Dr.C.Nadamuni Reddy- Principal, Dr.P.Lavanya, HOD of H&S Department, HODS of other departments, and senior faculty felicitated the Chief Guest.

ORIENTATION DAY

Orientation Program for 1year B.Tech students 2020-21 was conducted on 30th January 2021at AITS, Tirupati. The dais was shared by Principal, Dr.C.Nadamuni Reddy, Sri. C. Yella Reddy, Vice - Chairman Sri.C. Gangi Reddy, Chairman, Dr.P.Lavanya, HOD of H & S Department and Mr. Sridhar, Director, Career launcher, Tirupati who attended as the Chief Guest for this event.



Dr.C.Nadamuni Reddy, Principal, Mr. Sridhar, Director, Career launcher, Tirupati, Sri.C. Gangi Reddy, Chairman and Dr.P.Lavanya, HOD of H & S Department honored the arena.

At first, the program was inaugurated by lighting the lamp and students sung an invocation song.



Dignitaries lighting the lamp on Orientation day

Later, speaking on this occasion, Principal clearly explained the rules and regulations of the college like importance of attendance, academic structure, importance of enhancing practical knowledge through laboratories and on the right behavior of the students in the campus, etc.



Dr. C.Nadamuni Reddy, Principal addressing the students

Later Sri.C.Gangi Reddy, Chairman inspired the students with his speech by stating that "Education and Discipline are the root cause for success", hence he asked the students to utilize the state-of-art laboratories, library and available resources to reach success. In his speech he also stated that the Management is committed to arrange placements in the campus and it is the responsibility of the students to prove their best select in the best companies.



Sri C. Gangi Reddy, Chairman addressing the gathering in Orientation programme

Later Dr.P.Lavanya, HOD of H&S Department addressed the students. She detailed every aspect of code of conduct, like the timings, class hours, subjects, faculty, labs, bus routes, etc. She also requested the parents to visit the college to know their ward's performance in academic and behavior in the college.



Dr.P.Lavanya, HOD of H & S Department addressing the gathering

Chief Guest Mr. Sridhar, Director, Career launcher, Tirupati, addressed the students' community. He said that learning through practice gives more benefit than theoretically.



Mr. Sridhar, Director, Career launcher, Tirupati addressing the audience

He pointed out the present educational system in India is focusing on rote learning with emphasis on grades rather than knowledge. He practically cited some examples that makes the audience to understand how important the practical knowledge is.



Felicitation to the Chief Guest.

News published on the Orientation day

At the end, Sri. C. Gangi Reddy, Chairman, Dr.C.Nadamuni Reddy- Principal, Dr.P.Lavanya, HOD of H&S Department, HODS of other departments, and senior faculty felicitated the Chief Guest.

ORIENTATION DAY CELEBRATIONS

Orientation Program for 1year B.Tech students 2021-22 was conducted on 15th December 2021 at AITS, Tirupati. The dais was shared by Principal, Dr. C. Nadamuni Reddy, Dr. P. Lavanya, outgoing HOD of

H & S Department, Dr. B. Ramachandra, current HOD Department of H & S and Prof. O.Md. Hussain, Registrar, Sri Venkateswara University, Tirupati who attended as the Chief Guest for this event.





Dr.C.Nadamuni Reddy, Principal, Dr. O.Md. Hussain, Registrat, Sri Venkateswara University, Tirupati, Dr. B. RamaChandra, HOD of H & S Department and Dr.P.Lavanya, outgoing HOD of H & S Department honoured the arena.

At first, the program was inaugurated by lighting the lamp and students sung an invocation song. Chief Guest, Prof. O. Md. Hussain, Registrar, Sri Venkateswara University addressed the students' community that learning for knowledge is most important aspect in the present educational system. He also motivated the students how to handle the obstacles and move forward in life to achieve their aims.



Prof. O.Md. Hussain, Registrar addressing the gathering in Orientation programme

Later, speaking on this occasion, Principal clearly explained the rules and regulations of the college like importance of attendance, academic structure, importance of acquiring practical knowledge through laboratories assessment procedure, how to balance mental and physical health, and on the right conduct of the students in the campus, Do's and Don'ts in the college etc.



Dr.C.Nadamuni Reddy, Principal addressing the students

Later Dr. B. Ramachandra, HOD of H&S Department addressed the students. He detailed about the college timings, class hours, labs, bus routes etc. He also requested the parents to visit the college to know their ward's performance in academic and behavior in the college.



Orientation day Programme

News published on the Orientation day

At the end, Dr. C. Nadamuni Reddy- Principal, Dr. P. Lavanya, outgoing HOD of H&S Department, and Dr. B. Ramachandra, HOD of H &S Department felicitated the Chief Guest.

FRESHERS' DAY CELEBRATIONS

In the beginning of every academic year, it is the practice at Annamacharya Institute of Technology and Sciences, Tirupati unit to conduct Freshers' Day celebrations for welcoming the new Engineering students. This program is meant for developing a rapport between the juniors and the seniors to create a friendly atmosphere and to encourage their creative impulses to boost their confidence. For this academic year, this beautiful event is celebrated for two days in the college on 03^{rd} & 04^{th} October 2019.



Dignitaries on the dais

The dais was shared by Special Guest Sri. Subash Chandrabose, reputed Lyricist, Telugu Movie Industry, Chief Guest Dr. S. Varadarajan, Former Secretary, Andhra Pradesh State Council Higher Education (APSCHE), Sri. C. Gangi Reddy, Chairman, Dr.C. Nadamuni Reddy, Principal, and Dr. P.Lavanya, HOD of H&S Department.



Lightining lamp by dignitaries and invocation song singing by the students

The programme was started by lighting the lamp and followed the invocation song. Speaking on this event, Dr. P.Lavanya, HOD of H & S Department said that "It is the custom of celebrating Freshers' day every year and the main aim of celebrating Freshers'day is to create bonding relationship between the Juniors and the immediate Seniors.



Dr. P.Lavanya, HOD of H & S Department addressing the students

She requested the students to continue their bonding relations forever. Later Dr. C.Nadhamuni Reddy, Principal, addressed the auidence and said that the college is having state-of-art technology labs and urged the students to update their knowledge regularly and maintain discipline and decorum in and out of the campus.



Dr.C. Nadhamuni Reddy, Principal, addressing the students

He also advised the students to listen to parents, elders and teachers who wish for the well-being of the students.



Sri. C. Gangi Reddy, Chairman, addressing the students

Later Sri. C. Gangi Reddy, Chairman of the college addressed the students. In his speech he said that Education without discipline is not useful for ones development. He also asked the students to come out from the regular mindsets and think of innovative methods to develop their lives.



Dr. S. Varadarajan, Former Secretary, APSCHE, addressing the audience

Later Chief Guest Dr. S. Varadarajan, Former Secretary, APSCHE addressed the gathering by stating that the students progress depends on the utilization of Labs in Professional education. Hence he advised the students to clarify their doubts immediately without postponing.



Special Guest Dr. Subash Chandrabose addressing the students

Last but not the least Special Guest Dr. Subash Chandrabose, reputed Lyricist, Telugu Movie Industry addressed the students. He cited that Innovative, Concentration, Dedication, Discipline and Determination are the five principles that everyone must follow in their profession. He motivated the students by sharing the hurdles in his life and profession.



Felicitation to the Guests

Later Chairman, Principal, HODs facilitated the Guests and cultural activities followed. Seniors and Juniors took part and exhibited cultural performances.





Students performing cultural activities on Freshers' Day.

A little lilting music on the new faces, smiles made this event most colourful and successful.

ANNUAL DAY CELEBRATIONS - 2019

Annamacharya Institute of Technology and Sciences, Tirupati celebrated its Annual Day-2019 on 19th April 2019 in a grand manner in the Campus. Sri. A.V.V. Prasad garu, Registrar, IIT Tirupati, was the Chief guest and Sri. B. Viswanath, Director, Annamacharya Project TTD, was the Guest of honor for this event. The programme started with a prayer song.



Dignitaries on the dais

Sri. C. Gangi Reddy, Honorary Secretary and Correspondent, Annamacharya Educational Trust, extended a warm welcome to the gathering. In his address he pointed out that the students would have ever green memories about their college life. He wished the students to be successful in all their endeavors.



Sri. C. Gangi Reddy Garu addressing the students

Prof. C. Nadhamuni Reddy, Principal, presided over the function. He presented the college report in nutshell. He also appealed the students to make use of the facilities available in the campus to the fullest extent.



Prof. C. Nadhamuni Reddy, Principal, presenting the college report

Chief Guest, Sri. A.V.V. Prasad garu, Registrar, IIT Tirupati, was pinpointed that everyone should be responsible in keeping the society clean and tidy. He opined that this would start from the person's individual responsibility. He clearly illustrated how the government was taking care of converting waste into useful material.



Chief Guest, Sri. A.V.V. Prasad garu, Registrar, IIT Tirupati, addressing the audience

Later Sri. B. Viswanath, Director, Annamacharya Project TTD. was addressed the audience. He stated that the right attitude, consistent efforts and practice are the keys to gain mastery over the subjects. He emphasized the importance of imbibing values from the personalities who we come across. He added that the students could take risk in their life but they should not risk their life. Most importantly, He advised the students not to get deviated by the transient happiness and further, asked them to realize their responsibilities in the society.



Later Sri. B. Viswanath, Director, Annamacharya Project TTD addressing the students

Later Prizes were distributed to the students by the Chief Guest and Guest of Honour who won in different competitions



Students with dignitaries

Sri. C. Gangi Reddy, Honorary Secretary and Correspondent, Annamacharya Educational Trust, Prof. C. Nadhamuni Reddy, Principal, and Sri. C. Yella Reddy felicitated the Chief Guest and Guest of Honour.



Felicitaton to AVV Prasad, Sri. B. Viswanath on Annual Day

Finally cultural programmes started. In the colorful show, students brought to limelight their creative and artistic talents. The programme ended with vote of thanks.

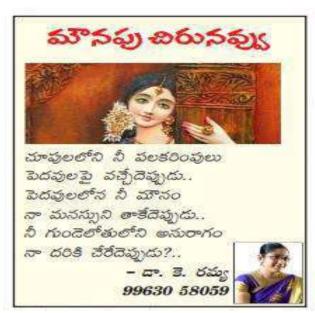


Cultural activities

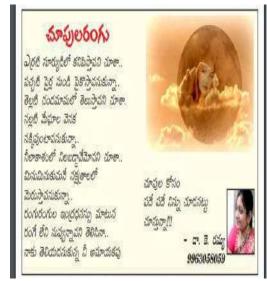
CREATIVE SKILLS :: FACULTY

POETRY

Anthology in eTelugu magazine SAHARI:

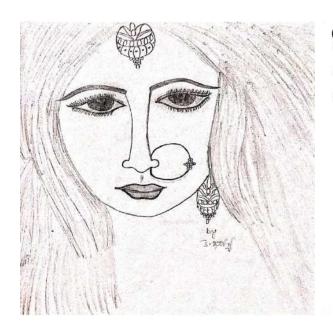








Dr. K. Ramya, Asst. Professor of Physics, Dept. of Humanities and Sciences



ద్రమె ప్రడమి మె జన్మనిస్తుంది పెచ్చటి కిరణమై మేల కొబత్రటుంది చిల్లటి గాంకిలా స్ట్ అనిరుస్తుంది నిండలా పెన్గంటి ఉండి నడిపిస్తుంది నండమంతి (ప్రమ కూడుస్తుంది కనురెప్పవలె కాంపలి కాంస్తుంది కనురెప్పవలె కాంపలి కాంస్తుంది కాని మెల మెల్లగాం కనుముర్మనై ఎగిడిగింది కట్టాల కదిలింగి కొట్టుమిట్టాడుందాంది రాను రాను తన ఉనికి (పశ్మాధ్రకమువుడాగింది.



Dr. K. Bhagya Lakshmi, Asst. Professor of Mathematics, Dept. of Humanities and Sciences

నై తికత

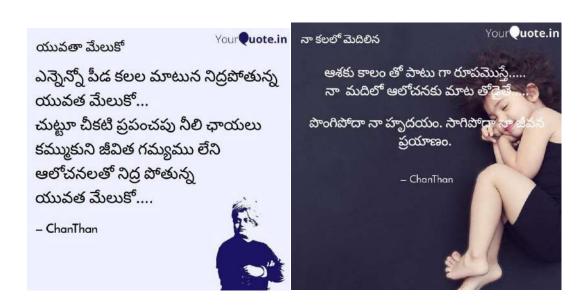
అకాళాన్ని -యోసన డ్రతిసారి అనిమ్మంది మారువుల హృదయాలు మిగాలంగా ఎందుకు ఉంఉమీని కొన్నిని -యోసన కమ్మలకు తెలోసేవి నిప్పులాంటి నీజాలెన్నో మెన్నెలను -యోసన మనస్సుకి తెలుస్తుంది కృణికావేశాలు మవికించని కారిని, మనుష్టుల డ్రవక్తనను -యోస్తే తెకిసేడి మార్చుల నైతిక బాధ్యత లేదని.....



Dr. P. V. Swetha, Asst. Professor of Physics, Dept. of Humanities and Sciences

QUOTES:





Dr.N.Chandrika, Assoc.Professor, Dept. of MBA

<u>PENCIL ART</u>







Ms. J. Midhula Sri, Asst.Professor, Department of ECE

KALAMKARI ART









Ms. T. Anuradha, Asst. professor, Department of ECE

You tube Videos (Devotional):

Devotional videos in Telugu on various topics:

- a) https://youtu.be/fYuQdaqNWEY: MArgaseersha Masa Pramukhyutha
- b) https://youtu.be/MCIxorNSJQk : Guru SevaPaadaBhagyam
- c) https://youtu.be/GIKvIvIDIqM: VaraayoChella Pillai

CREATIVE SKILLS :: STUDENTS

EXTRACTED PETROL FROM WASTE PLASTIC

A few CE students in AITS, Tirupati, thought innovatively extracted Petrol from Waste Plastic. Students in their demo said that in order to extract petrol, plastic needs to be heated to over 400 °C. After melting down, this mass is vaporized into gas, whereby the long chains of molecules are broken down. Molecules then subsequently reassembled into smaller chains via chemical processes.



Heating waste plastic

Students showing extracted petrol

Article published in Newspaper

Its told that 100 liters of valuable petrol is secured from 100 kilograms of plastic waste. Experimenters used various types of polyolefin additives, meaning plastic waste such as bottles, bags and film can all be converted into chemical feedstock without the need for any pre-treatment. Mr. Mourya, Ms.Naveena, Ms.Reshma, Mr.Rajanikanth, Mr. Murugan Doraii involved in this experimental work.

EXTRACURRICULAR ACTIVITIES:

STUDENTS PARTICIPATION & ACHIEVEMENTS IN

- Ms. Priyanaka, Tejaswi, Sai Keerthi, final year students of B.Tech are participated in video making competition of "YUVANITHA 2K21" conducted by Aditya college of Engineering, Madanapalli.
- Ms. Sharmila Bai, III B.Tech was the winner of MISS DIVA TALENT HUNT -2021, AITS Tirupathi.
- Mr.Shaik Rabbani, IV B.Tech, participated in Mass yoga demonstration and activities as part of observance of 5thInternational day of Yoga on 21stJune 2019 at the Art of Living International centre, Kanakapura road, Udayapura, Bengaluru and he has been awarded too for the recognition of successful completion of Youth Empowerment & skills workshop.
- Certificate of appreciation is proudly awarded to P. Rupesh, B.Vishnu and S.V. Pradeep, III B.Tech for participation in a Two day workshop on Hands-on experience on Internet of Things under TEQIP III 1.3 conducted in association with IB HUBS during 24th and 25th march 2019.
- K.Nanditha Chowdary, III B.Tech, won consolation prize in maths Quiz on Mathematics day 2021 and also participated in YUVANITHA video making competition conducted by Aditya college of Engineering, Madanapalli, 2021.
- KalathurTejaswi, III B.Tech, won first prize in Maths quiz on National Mathematics day 2021 and also secured first prize in Elocution competition 2021, AITS, Tirupati.
- 238 students studying III B. Tech, participated in the online workshop on Python held on 29th May 2020, AITS, Tirupathi.
- 26 students of III B.Tech, published in an International Journals on "New Engineering Technologies"held on 30th May 2020, AITS, Tirupathi.
- 7 students of III B.Tech, participated in an International conference on "Emerging Technologies" held on 27th June 2020, AITS Tirupathi.
- Ms.U.Sai Deepthi, IV year student, stood third place in drawing competition held on 5th
 August, on the occasion of HIROSHIMA-NAGASAKI DAY 2018.

• K. Muni Teja Reddy, III year student of B.Tec, participated in GOOGLE IT in AMPLE-2K19 on 16th February 2019 at SV colleges, Tirupati.

ARTICLES



D MUNI SRINIVAS II -AI & DS (20AK1A3023)

BALLOON INTERNET

Introduction:-

- → Billions of people across the globe still don't have reliable, affordable access to the internet.
- → 1 of every 2 people worldwide lack access to the internet.

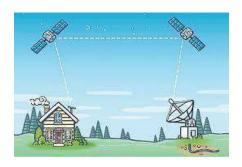
(source: International telecommunication union.)

- → Though the internet the world develop much faster.
- → It's not easy to install an earthbound internet infrastructure in the middle of nowhere.

Present Internet Facilities :-

- 1. Internet is providing through satellites (Atleast 50 satellites)
- 2. Internet is receiving and dividing to areas by signal towers.

Images :-





STARLINK is a satellite internet constellation being constructed by **Space-X**providing satellite Internet access.

The constellation will consist of thousands of mass produced small satellites in low Earth orbit. (LEO)

Users can expect to see data speeds from 50 MB\s to 150 mb\s.

Latency from 20 ms to 40 ms in most locations.

Project name is "Kuiper" and it's main theme is to arrange 1000 satellites around the Earth.

KUIPER IMAGES:-



PROJECT TITAN:-

Google bought a company called **T I T A N AEROSPACE** in 2014. It had been developing solar-powered drones that could fly for several days at a time and take images of earth or beam down internet.

But google has announced to shut-down its solar-powered drone program, titan that was focusing on the use of UAV's for the delivery of internet services. According to the company, the decision is motivated from drones to balloons-based projects called project loon.



Images of project TITAN

PROJECT LOON

- 1. They provide internet using **LONG-TERM EVOLUTION**(LTE) technology.
- 2. Loon develops its high-altitude balloon network into stratosphere, between altitude of 18km and 25km.
- 3. To safety ad reliably get the balloons up and operational, the team designed and built Auto-launchers.
- 4. The balloons were first tested in **NEW ZEALAND** in 2013.
- 5. **SRI LANKA** has been enjoying the internet access provided by the balloons since 2015.

How LOON works?

Loon flight system creates a network in stratosphere and similar to terrestrial based cell towers. Loon's flight system acts like floating cell phone tower in the sky. Users can use standard LTE enabled handsets to connect to the operator's network through loon's floating cell phone towers.



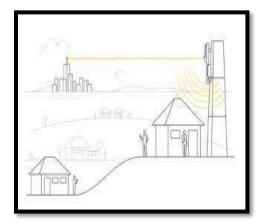
Images of Project LOON

PROJECT TAARA

- 1. To provide internet to people living in remote areas. This project uses laser beams to transmit information.
- 2. They conducted series of experiments in KENYA (Africa) in last year.
- 3. Partnering up with liquid telecom to deliver internet access in remote parts of Africa.

HOW TAARA WORKS:-

→ Project uses light to transmit information at very high speed as a very narrow invisible beam. This beam is sent from one terminal to another. A single link can cover distance up to 20km. And transmit bandwidth of upto 20 gb/s.





Images of projectTAARA

DREAM RECORDING



MS.M.CHAMANTI 21AK1A03009 I. B.TECH. AI&DS



Ms. B.NAVYA 21AK1A3009 I. B.TECH. AI&DS

INTRODUCTION:

A dream consists of images, thoughts or emotions that pass through our minds during sleep. No body knows why we dream, but there are many theories related to it. Some say that dreams are connection to our subconscious. They are random memories in our mind being put together. In dreams, our brains try to interpret things that stimulate us while we sleep. Even blind people indeed dream in visual images.



Most dreaming occurs during REM (Rapid Eye Movement) sleep, when we cycle through periodically during the night. Sleep studies show our brain waves are almost as active during REM cycles as they are when we are awake. The brain stem generates RCM sleep and the forebrain generates dream.

Types of Dreams:

- 1. Dreaming in passive imagination
- 2. Dream illusions
- 3. Dream Hallucinations

Dreams help us to store memories and the things we have learnt. Some of the advantages of dreaming during sleep are as follows:

- Help us store memories and the things we have learned
- Help process our emotions
- Offer us another way of looking at the things

Phenomena:

When our brain speaks to us through vivid stories while we dream, and we record those dreams" it enables us to identify what might be causing our waking anxiety."

Dreams can be powerful sources of information about what is going on in our subconscious. Recording our dreams can help us become better acquainted with the most irrespressible parts of our brain and realize the untapped potential of our imagination helping us generate next thoughts and ideas.

Procedure to record our dreams:

Recording drams is a cross between computer science and neuroscience. The technology to record the activity of the brain is continuously evolving, ever since its beginning. A dream is a series of thoughts or images that happen in our mind during our sleep.



"Japanese Scientist Professor Yukiyasu Kamitoni at Kyoto University in Japan has discovered a method to record our dreams by means of Magnetic Resonance Imaging (MRI Scanner)"

As a miracle, Japanese scientists have discovered a method to record our dreams by means of Magnetic Resonance Imaging Scanner (MRI Scanner). In this digitalized era, the development of science and technology has transcended all the boundaries making everything possible to achieve. Some believe that a dream recorder that produces a full movie like expressions may be decoded.





It is reported that this process was repeated nearly 200 times for each a person. The scientists have divided the collected data and discovered the fact that certain common types of objects from The person's dreams could be correlated with the brain patterns as recorded by the MRI scanner. In the next stage, the scientists have used internet search engine to look for images that were similar to the objects from the person's dreams and entered the data into a learning algorithm that can refine the model even further. The constant experiments and researchers implemented by the Japanese scientists have enabled them to discover the "Dream Reading Machine".

POETRY

The SCAR

Every scar holds a story but mine holds pain

I wear them with pride cuz they're the proof of my gain

All the struggles I faced won't go down in vain

I survived it all and came stronger once again.

Leave the world as it is – let them keep talking shit

They got no business to do – You keep doing your own thing

Are you worried about foes – let them rot in a bin

Wake up the animal – sleeping down in your skin.

Life may give you a second chance – but you got no second life

Star up fam – it's your time to roll the dice

Six numbers, six sides - plus a world full of lies

So watch your step before you leave, You never know what's inside.



Gazi Mohammad Meesam 19AK1A0501

AITS: THE BEST

College is my first house, Home is my second house.

Campus is full of greenery,

And natural scenery.

When we see out of the windows,

We observe the far away trees shadows.

Faculty is lovable,

Teaching is understandable.

They become close like friends quickly,

With no hesitation we can clear our doubts freely.

Having very good labs,

No need of using tabs.

It's having classes in separate blocks,
This reminds us to work like clocks.

The final years miss the college,
As they feel like they joined just now in college.
The semesters are conducting in every year,
Students wishes to pass and be clear.

Principal takes care of students, Gives respect to student parents. AITS prefers to always be in time, No chance to happen any crime. AITS make the students to be always creative, It is useful for the students to perfect live. AITS collage is the preferable, excellent, Secured and encourages the student's talent.

> AITS is a ragging free - campus, Where we can live like us.

"EVERY STUDENT GIVE THEIR BEST :TO PROVE AITS THE BEST."



Ms. K. Niharika, II EEE, 20AK1A0217



అమ్మ (ప్రమ

చిశ్వమంత డేమ అమ్మడేమ స్పష్టికే అందము అమ్మడేమ అంతులేని అనురాగానికి ఆర్ధం అమ్మ మమితకు మారుడేమ అమ్మ డేమకు డుఆరూందం అమ్మ అలువెరుగని ఓర్పు అమ్ము అద్భుతేమైన స్పేవాం అమ్ము అపురూవమైన కాబ్చర్ అమ్ము అరుడైన రుంటం అమ్ము జన్మలెన్మి ఎత్తినా తొర్ద్పుకోగలనా నొఋకాం ఆన్మి తవై నిలిచిన మంఅమ్మకి వేమి ఇన్వగలను ఈ నా తొలి కవితను అమ్మకు అర్పిస్తున్నాను (చేమతో Quotes on Soldiers

Our Flag does not Fly because the wind moves it --- it fles with the Last breath of Each colder who died protecting it."

"The firmy is the true mobility of our country"

" people sleep peaceFully
in their teds at night
only tecouse rough
men stand ready to do
violence on their tehalf."

"The real hero is the mon who Fright Even though he is scared.

"The true soldier

Fight not

because he notes

what is in Front of him

but because

he Loves what is

behind him."

old soldfers never die, they Just Fade away!

S.Lasya

Est year

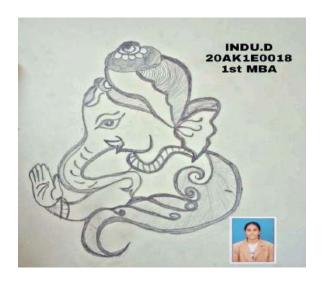
blech

A1 &0s-1*

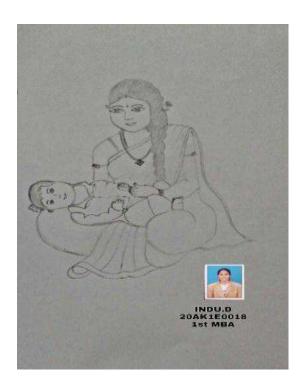


S.Lasya 21AK1A3034 I. B.TECH- AI & DS

DRAWINGS AND PAINTINGS:









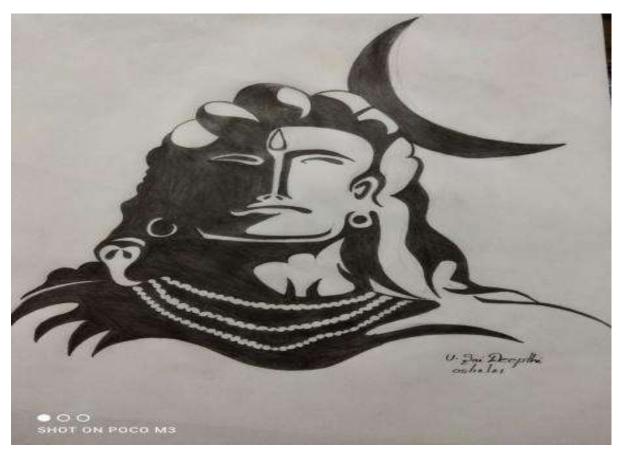




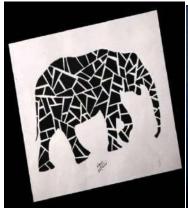


T Murali Krishna 21AK5A0137





Skilled Art



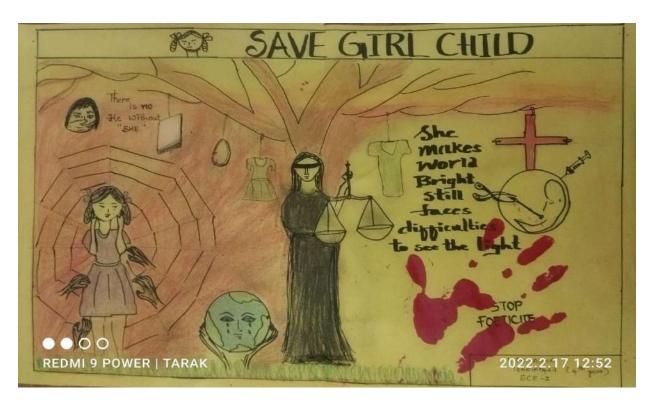


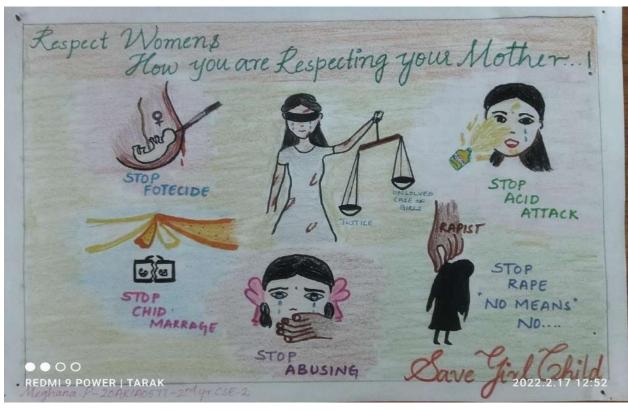


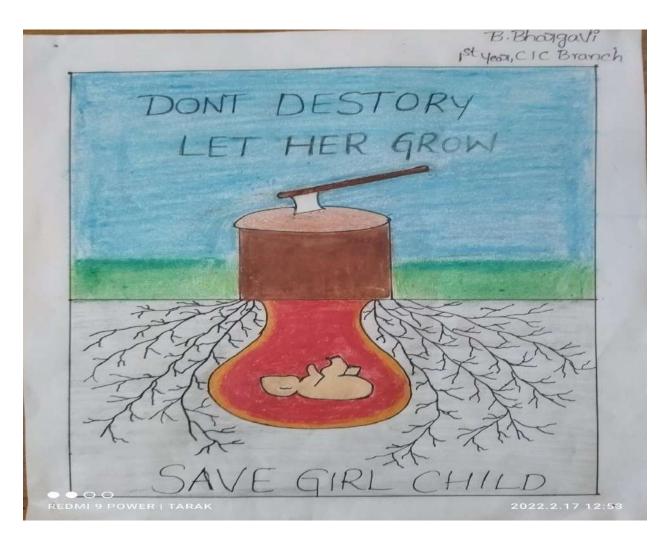


P.Muni Nani 18AK1AO311

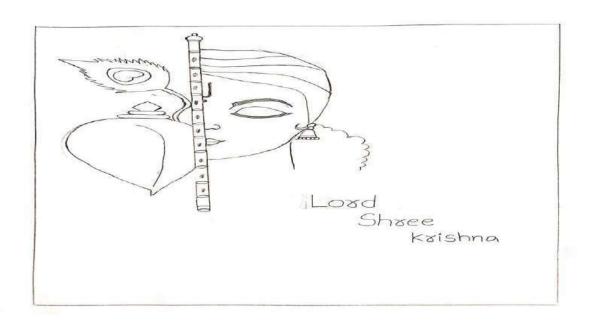














Bhavya Chowdary I. B.TECH – CIC (21AK1A3604)









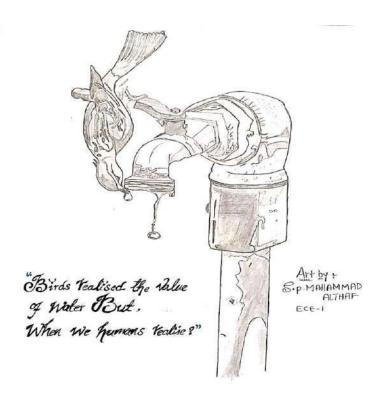


G.Samyuktha Lakshmi I B.TECH ECE (21AK1A04B6)



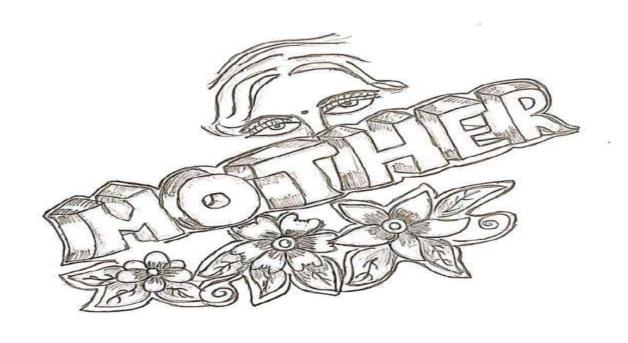


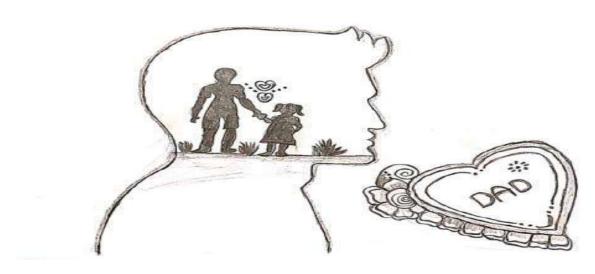
N. Gareeshma I. B.TECH - ECE- 1 (21AK1A0428)





S. P. Mahammad Althaf I. B.TECH- ECE-I (21AK1A0465)







M. Ravindra I.B.TECH CSE-3 (21AK1A05J4)

PHOTOGRAPHY:

Greenery in Campus: AITS Tirupati



Dual Nature

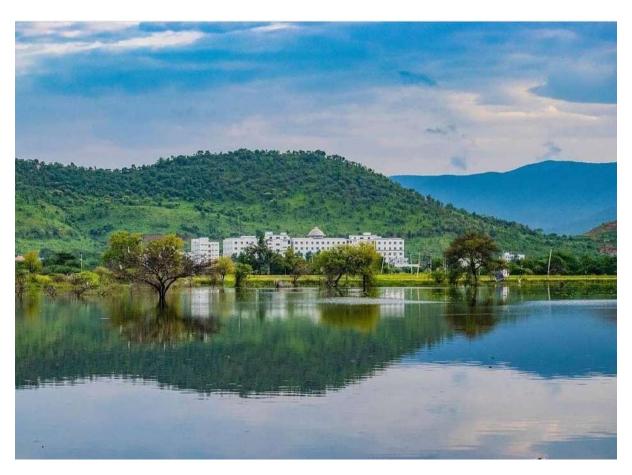






J. K. Charan
I .B.Tech – MECH (21AK1A0302)

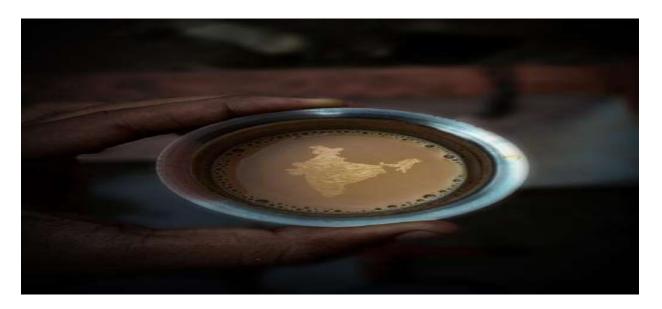
AITS COLLEGE:





K. Jagan Mohan
I. B.TECH ECE (21AK1A0442I)

Our Country in Our Tea Cup:



When Colour Pens fly:





A. Akash 1. B.TECH AIDS (21Ak1A03002)

Aim High:



When letters Glow:





Ch. Harsha Vardhan I B.Tech AI & DS

CRAFTS:





B.Guru Gangadhar Reddy

1.B.TECH –ECE (21AK1A0427)



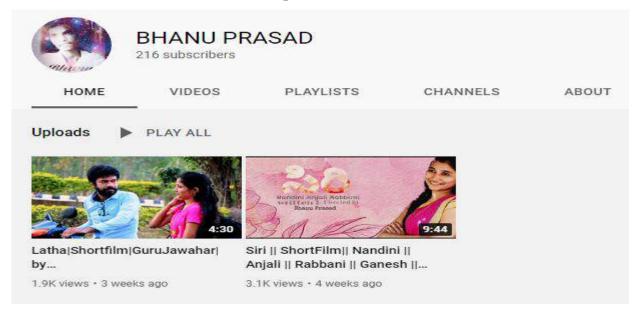


K. Kavya 1.B.TECH – CSE (21AK1A0570)

SHORT FILMS:

- A story based on brother and sister's Emotional bonding .A girl named Siri was kidnapped by her college mate Ajay...!This story is about how Siri's brother Santhosh traced her back..?watch on the You tube link: https://youtube.com/watch?v=--bo-Jhwr54&feature=share
- A story based on woman's self-defense. This story is about how a father encourages his
 daughter to be brave and taught her to overcome issues faced by woman in the current
 society ...? watch on the youtube link: https://youtu.be/c7gvYJardFw

3. YouTube Channel of Student with Inspirational Content for women self defence



by

Student Name	Roll No	Student Name	Roll No
G Soma Sekhar	19AK5A0172	G Praveen Kumar	19AK5A0164
G Bhanu Prasad	19AK5A0136	D Sreekanth	19AK5A0173
K Bhargav	19AK5A0138		

ALUMNI CONTRIBUTIONS:

SOCIAL SERVICE ACTIVITIES

As Mother Teresa stated once in an International Conference that "Helping hands are more powerful than speaking lips". Needy people need only helping hands. Students irrespective of pursuing or alumni, are always in first row to extend their hands towards needy.

During the months of October2021 and November 2021 the cyclone was severely affected in many areas and people lost their livelihood. In this period tow of our alumni students namely Ms. Suvarchala, Application Development Analyst, in Accenture company and Ms. Swetha, System Engineer, Technosoft payroll, Dell technologies, has actively participated helped the people in affected areas with the help of their team and family members by raising funds of Rs. 30,000/-. They distributed Food, Medicine, Fruits, Dresses, Groceries, etc,.







Ms Suvarchala Ms. Swetha

ALUMNI CONTRIBUTIONS

Alumni are great role models for current students. They are always ready to share their experience in educational angle. Talented alumni likely have a wealth of experience and skills to share with current students. AITS alumni are no way lesser than any one. AITS inaugurated webinars and seminar series by alumni to current students. Dr. C Nadhamuni Reddy, Principal, AITS, Mr. N. Venkata Vinod Kumar, Coordinator, Alumni Association, Alumni Department staff, Heads from all departments were participated in this inauguration. 300 members of students were participated in seminar.





SEMINAR

Mr. N Dinesh, Software Engineer, Magnaquest Technologies Ltd

Topic Name: "Latest Views on C Programming"

Date : 23-01- 2021

TIMING : 10.30AM - 12.30PM (3rd year CSE)

2.00PM - 4.00PM (3rd year ECE)

















FELICITATION:



WEBINARS:

1. MR. VENU MALLI

Seasoned Management Consultant and Senior Consultant, Ernst & Young Pvt Ltd,

Topic Name: "Higher Studies and Management Consulting"

Date: 09-07- 2021

TIMING: 10.30 AM- 11.40 AM

Number of Participants: 410 students (B. Tech I Year)





2.MR. K GOVARDHAN KUMAR

Business Development Associate, Ed-tech Company (BYJU'S Alumni, AITS-Tirupati

Topic Name : "Journey as a Technical Trainer"

Date : 06-07- 2021

TIMING : 10.30 AM- 11.40 AM

Number of participants: 190 students (II B.Tech , CE, MECH, EEE departments)







3. MS. P Preethi

Lead Dev Ops & Security Engineer, Sureify Labs Technology Pvt Ltd

Alumni, AITS-Tirupati

Topic Name: "Insights on DevOps and CyberOps and various

opportunities on it"

Date: 24-07-2021

TIMING : 10.30 AM- 12.00 PM

Number of participants: 200 Students (II BTech CSE)









4. Mr.S. Ravi Kumar

Sr. Database Engineer, CBRE South Asian Pvt. Ltd

Alumni, AITS-Tirupati

Topic Name: "Database Technologies"

Date: 23-01- 2022

TIMINGS: 10.00 AM- 12.00 PM

Number of Participants: 231 students. (II B. Tech, CSE, AIDS & CIC)

Google Drive Link:

https://drive.google.com/file/d/1btHOF-cDd2sux_yySXmwVGdZlz6Ow6jN/view?usp=sharing







Our Recruiters

























































































Annamacharya Institute of Technology and Sciences::Tirupati (Autonomous)

Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati - 517 520 - A.P