



JYOTHISHMATHI
INSTITUTE OF TECHNOLOGY AND SCIENCE



PRATIBIMB

Reflection of Achievements

July to December 2020

Journey towards New hopes, New aspirations, New milestones to be achieved and motivation to move on.....

Jyothishmathi Group wishes all its stakeholders and well wishers a very happy new year 2021.



Sri. J. SAGAR RAO
Chairman, JGI

MESSAGE FROM CHAIRMAN SIR

Jyothishmathi has always stood above the rest in its approach to education and in its pedagogic essentials. Jyothishmathi has undergone a massive metamorphosis over the years and consolidated itself in ensuring a pragmatic learning experience for its students, and more importantly remaining a leader in the field of engineering education. We have constantly evolved by positively looking at our deficiencies that have transformed us as efficient vehicle of social change. **Wish you all a very happy, safe and healthy New Year.**

MESSAGE FROM SECRETARY SIR

Engineers play a significant role in nation building by creating new inventions using best technologies to make human life more comfortable, secure and productive. In modern times, nations which have rich Engineering and Technology domains are flourishing economically and are providing better lives to their people. Today's education is not just accomplishment of Knowledge, but it is acquisition of skills, building character, and improving employability. There is a huge requirement of Engineers and Technocrats to repeat the saga of success. We have excellent potential to grow in diversified areas and excel in these fields



SUMITH SAI JUVVADI
Secretary &
Correspondent, JGI



Dr. G. LAKSHMI NARAYANA RAO
Professor, Principal, JITS

MESSAGE FROM EDITORIAL-CHAIR

The essence of Engineering and Technological education which has spread in the country is a very positive sign, not only to cater to the domestic needs but provide manpower to the entire world and become the biggest technically trained community. There are umpteen numbers of industries which look forward to recruit professional engineers with right qualification and excellent training directly from reputed institutions. Jyothishmathi Institute of Technology and Science is an entity contributing to this Endeavour.

MESSAGE FROM THE EDITOR-IN-CHIEF

We are glad to bring out the present issue of our e-Newsletter Pratibimb. Pratibimb is a living document of the Jyothishmathi Institute of Technology & Science, carrying mosaic of intellectual contributions, activities, events, seminars, guest lectures, Training and placement activities and many more. It is a fact that a newsletter reflects, inspires and motivates students and staff alike, for it reminds them of the zeal that they had once to do something extraordinary. We were overwhelmed by the response that we received from the coordinators, heads of departments and faculty members of Jyothishmathi Institute of Technology and Science making this newsletter possible. In this newsletter, we have reported significant achievements of the Departments, Staff and Students in terms of learning and development. I am glad to acknowledge the kind support that I received directly and indirectly, to bring out the newsletter on time.



Mrs. KOODALA PRASANNALATHA
Assistant Professor of
English, Head Department
of Humanities & Sciences

**“ The capacity to learn is a gift; The ability to learn is a skill;
The willingness to learn is a choice.”**

- Brian Herbert

NEW EMERGING COURSE IN B.TECH

CSE-ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

The National Education Policy 2020 has emphasized that India must take the lead in preparing professionals in cutting edge technologies such as Artificial Intelligence and Machine Learning that are fast gaining prominence. The rise of new technologies such as Artificial Intelligence and Machine Learning are set to dominate the industry in the coming years. According to various reports, Artificial Intelligence will create 23 Lakh jobs globally. ML Engineer, AI Architect, Data Scientist, Business intelligence developer, and Big data Engineer are few of the most in demand jobs for those qualified in AI & ML. ML Engineers are one of the highest paid computer professionals. Worldwide, many students are opting for new courses in engineering such as AI & ML which will give them an edge over others choosing traditional UG courses.

INSTITUTIONAL LEVEL EVENTS

ORIENTATION PROGRAMME FOR THE FRESH ADMITTED STUDENTS INTO B.TECH PROGRAMMES FOR THE ACADEMIC YEAR 2020-2021



Chairman Shri J. Sagar Rao Gaaru addressing the students and parents in the orientation Programme.

INVITED TALKS

- › Mr.Hetal Rach, CEO, AIC-MCU was the Keynote speaker in a webinar on *"Innovation, Problem Solving, Challenges and the way forward"* organised by Department of CSE on 6/5/2020.
- › Dr.A.V.Krishna Prasad, Professor, Department of CSE, MVSR Engineering College Computer Society of India, Secretary Hyderabad Section was a Keynote speaker in a webinar on *"How to learn R programming"* held on 12/5/2020.
- › Mr.P.Shashi Kiran Rao, Program Manager, CAPGEMINI, Hyd. was a keynote speaker in a webinar on *"Corporate Interview - the other side view"* organised by the Department of CSE on 16/5/2020 .
- › Mr.Karthik Peddi, Assistant Consultant, TCS, Hyderabad was a keynote speaker in a webinar on *"Latest trends and technologies in Cloud computing"* organised by the Department of CSE on 16/5/2020.
- › Dr.Srinivas Jangili, Asst. Prof, Dept of Mathematics, NIT, Warangal was a Keynote speaker in a webinar on *"Mathematical Modeling of Physical Phenomena"* organised by the Department of CSE on 20/5/2020.
- › Dr. S Saravanan, Professor, Department of Mechanical Engineering, Sri Venkateswara college of engineering, Chennai was the Chief Speaker of a seminar on *"Advanced & Research Opportunities in Internal Combustion Engines"* organized by the Department of Mechanical Engineering from 16.06.2020 to 20.06.2020.

CERTIFICATION COURSE DETAILS

- › Department of CSE organized certification courses titled *"C and Advance C Programming-the Competitive Way"*, *"Java Programming- the Competitive Way"*, *"Python Programming - the Competitive Way"* from 18 July 2020 to 14 Aug 2020.
- › Department of ECE organized certification courses titled PCB Design, P-Spice, QUCS , Design of Embedded System Using Arduino & Raspberry pi, Digital Image Processing, Design of Antennas using IE3D software from 18-07-2020 to 13-08-2020.
- › Department of Civil Engineering organized Certificate Courses on *"Archi CAD software"*, *"Fundamental principles and techniques of Manual drafting for Architecture plans"* from 18.07.2020 to 13.08.2020.

“Never stop learning, because life never stops teaching”

FACULTY ACHIEVEMENTS AND ACTIVITIES

FACULTY TALKS ELSEWHERE

- › Dr.R. Jegadeesan Associate professor & Head, Department of CSE acted as a Resource Person on
 - “Technological Advances in Wireless Sensor Networks”, held on 19.08.2020 at Asoka Institutions, Hyderabad.
 - “Wireless Communication and Its Application”, held on 24.07.2020 University College of Engineering Dindigul.
 - “Recent Trends in Mobile Computing and Its Applications” held on 17.07.2020 at Nehru Memorial College, Tiruchirappalli.

FACULTY AWARDS

- › Dr. R. Jegadeesan, Associate Professor, Head of the Department CSE received
 - “National Eminent Academic Leader Award 2020” by I2OR National Award 2020
 - “Outstanding Scientist Award 2020” “by VDGGOOD International Scientist Award 2020 on 19 & 20 Dec’2020

BOOKS PUBLISHED

- › Dr.R.Jegadeesan published a book titled “Energy Consumption Power Aware Data Delivery in Wireless Network” in Book Publisher International on 04.09.2020.
- › Dr.R.Jegadeesan published a book titled “Automatic Rice Quality Detection Using Morphological and Edge Detection Techniques” in Springer book ICCCE 2020 on 09.11.2020.
- › Dr. G. Sridhar Published book with title “Electrical Machines - A Practical Approach” - ISBN: 978-3-11-068227-4, De Gruyter Publishers, Germany, july-2020

FACULTY UPDATES



V. Neelima Associate Professor, Department of CSE had successfully completed her Ph.D. in Computer Science & Engineering with the title “Secure-Trust Aware Routing using ACO in Wireless Sensor Networks” from Jawaharlal Nehru Technological University Hyderabad under the supervision of Dr. A. Naseer, Professor, SGCS, INHA University South Korea.

PROFESSIONAL ROLES (Ph.D Guidance)

Dr. G Lakshmi Narayana Rao, Professor & Principal, Jyothishmathi Institute of Technology and Science as a supervisor guided Ph.D scholar, Mr. A Praveen who is awarded with Doctor of Philosophy for the submission of his thesis on “Experimental Investigation on DI Diesel Engine by using Nano Additive Calophyllum Inophyllum Biodiesel Blends with Exhaust Gas Recirculation” to JNTU Kakinada.

REVIEWER/EDITORIAL BOARD MEMBER

OF THE JOURNALS

- › Dr. R. Jagadeesan, Associate Professor, Head of the Department CSE is a member in Editorial Board for the following Journals..
 - “The International Arab Journal of Information Technology (IAJIT)” (ISSN: 1683-3198).
 - “International Journal of Research and Analytical Reviews (IJRAR)” (E-ISSN 2348-1269, P- ISSN 2349-5138) Impact factor: 5.75 (Applied Awaiting reply).
 - “American Journal of Science, Engineering and Technology (AJSET)” ISSN: 2578-8345 (Print); ISSN: 2578-8353 (Online).
- › Internship
 - The students of IV B.Tech ECE I semester (R16) have completed their Internship in Bharath Sanchar Nigam Ltd. (BSNL), Edgate technologies pvt limited, EdGate TEXAS INSTRUMENTS, IDEA, Internshala, Internship studio, IoT, Level up Academy, Nsic, SWECHA, Tata Consultancy Services, Tech Mahindra, Texas Instruments and The Sparks Foundation,
 - The students of III B.Tech ECE I semester (R16) have done their Internship in SWECHA.

“ If you are not willing to learn no one can help you.
If you are determine to learn no one can stop you ”

RESEARCH PUBLICATIONS

- ▶ Dr. G Lakshmi Narayana Rao, Professor & Principal, Jyothishmathi Institute of Technology and Science has published an article on *"Predictive correlations for NOx and smoke emission of DI CI engine fuelled with diesel-biodiesel-higher alcohol blends-response surface methodology approach"*, in "ELSEVIER-Science Direct", (A peer reviewed Journal). Volume 269, 1 June 2020.
- ▶ Dr. G Lakshmi Narayana Rao, Professor & Principal, Jyothishmathi Institute of Technology and Science has published an article on *"Optimization of injection timing and anti-oxidants for multiple responses of CI engine fuelled with algae biodiesel blend"*, in "ELSEVIER-Science Direct", (A peer reviewed Journal) November, 2020.
- ▶ Madana Srinivas, Associate Professor, Department of CSE published a paper on *"EE-hHSS: Energy-efficient wireless sensor network with mobile sink strategy using hybrid Harris hawk-salp swarm optimization algorithm"* in an International Journal of Communication Systems (SCIE indexed Journal with ISSN no: 1099-1131, 1074-5351 33.16 (2020): Volume-33, Issue-16, e4569.
- ▶ Dr. N. Umapathi, Associate Professor, Department of ECE has Published an article on *"Design and Implementation of Low Power 16x16 Multiplier using Dadda Algorithm and Optimized Full Adder"* in an International Journal of Advanced Science and Technology ISSN number: 2005-4238 V ol.29, No.3, (2020), pp.918-926.
- ▶ Dr. G. Karthick, Associate Professor, Department of ECE has published an article on *"Performance analysis of KNN Classifier with various distance metrics method for MRI images"* in a soft computing and signal processing, Advances in intelligence systems and computing ISSN number: 978-981-13-3600-3.
- ▶ Dr. Agarala SubbaRami Reddy, Professor, Department of ECE has published an article on *"Design of Adaptive Fir Filter Using LMS Method"* The International journal of analytical and experimental modal analysis, 2019-20, 0886-9367 (page no:1255-1260).
- ▶ Ms. K. Radhika, Associate Professor, Department of ECE published an article on *"Design and Analysis of Low Power High Speed Combinational Multiplier and Wallace Tree Multiplier for Image Compression"* In an International Journal of Advanced Science and Technology, ISSN number: 2005-4238, IJAST, vol.29, no.3, (2020), pp.3675-3684.
- ▶ Mr. Mahesh Kumar, Associate Professor, Department of ECE has published an article on *"Parity Preserving Wallace Tree Using A Wallace Tree Reversible Gate"* In an Alochana Chakra Journal, ISSN number: 2231-3990, Volume IX, Issue VI, June/2020 (pp.2177 to 2186)
- ▶ Mr. Sathish M , Assistant Professor, Department of ECE has published an article on *"Low Power-Area Efficient Multiplexer Restructuring for VLSI Implementation"* In an International Journal of Advanced Science and Technology, ISSN number: 2005-4238, IJAST, VOL.28, NO.19, PP.688-693.
- ▶ Mr. Ramesh Jitty, Assistant Professor, Department of ECE has published an article on *"An Optimized Modified Parallel Implementations Design Of Multiplier And Accumulator Operator"* in an waffen-und kostumkunde journal number: 0042-9945 (page no:337 – 342)
- ▶ Dr. S. Ashok Kumar, Associate professor & Head of the Department of ECE has published an article on *"Analysis of Tree-shaped slotted Impedance Matching antenna for 60GHz femtocell applications"* in an ICT Express, Elsevier (SCI indexed Journal with ISSN no: 2405-9595), accepted for publications, Dec 2020.
- ▶ Dr. G. Sridhar, Associate professor, Department of EEE has published an article on *"Fault diagnosis with Model-Based Approach: A Survey"* in an "International Journal of Advance Research, Ideas And Innovations In Technology" (It is a scholarly online, open access, peer-reviewed, interdisciplinary, bi-monthly, and fully referred journal, India with ISSN Number: ISSN: 2454-132X, Vol.No.6, Dec.2020.
- ▶ S. Janardhan, Asst Professor, Department of EEE has published an article on *"Power Quality Analysis of Multilevel Renewable Energy Sources"* in a "Journal of critical reviews" (It is a scholarly online, open access, peer-reviewed, interdisciplinary, bi-monthly, and fully referred journal, India with ISSN Number, 2394-5125, Vol.7, No.18, 2020 (Pages 647-652).
- ▶ Viswaprakash Babu, Associate Professor, Department of EEE has published an article on *"A Novel Integration of Solar fed dynamic voltage restorer compensating sag and swell voltage in distributed system using enhanced space vector pulse width modulation technique"* in " Universal journal of Electrical and Electronics Engineering"(Universal Journal of Electrical and Electronic Engineering is an international peer-reviewed journal that publishes original and high-quality research papers in all areas of electrical and electronic engineering, USA) with ISSN: 2332-3280 (Print), ISSN: 2332-3299 (Online) ,Vol.6, No.5, 2019 (Pages 329-350).

“ Discipline is a choosing between what you want now
and what you want most ”

EVENTS ATTENDED

- › Dr. R. Jegadeesan, Associate Professor, Department of CSE has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "*Blended Learning and Flipped Classroom*" from 2020-8-10 to 2020-8-14 at Sardar Vallabhbhai National Institute of Technology Surat.
- › Dr. Laxmirajashekhar, Associate Professor, Department of Business management has attended a Faculty Development Programme on "*Advanced Concepts for Developing Moocs*" from July 02 - July 17, 2020, 2020 organized by Teaching learning Centre, Ramanujan College, University of Delhi sponsored by MHRD.
- › Dr. Laxmirajashekhar, Associate Professor Department of Business management has attended a Faculty Development Programme on "*Managing Online Classes and Co-Creating Moocs 3.0*" from July 25 - August 10, 2020 organized by Teaching learning Centre, Ramanujan College, University of Delhi sponsored by MHRD.
- › Mr. M.Satish goud, Assistant Professor, Civil Department of has attended a FDP on "*Emerging Tools for Design and Analysis of Sustainable Roads (ETDASR 2020)*" from 07.12.2020 to 12.12.2020 at VNR Vignana Jyothi Institute of Engineering and Technology, Pragathi Nagar, Hyderabad. College of Engineering and Technology, Thottiam, Trichy District, Tamilnadu.
- › Mr. Mohammad Raheem, Assistant Professor, Department of Mechanical has attended a FDP on "*3D printing-Future of Manufacturing*" from 05.10.2020 to 09.10.2020 at VNR Vignana Jyothi Institute of Engineering and Technology, Pragathi Nagar, Hyderabad.
- › Dr. Aakunuri Manjula, Associate Professor, Department of CSE has participated Two Week FDP (AICTE - ATAL) on "*Applications of Augmented Reality (AR) and Virtual Reality (VR) using MATLAB*" from 16th Oct 2020 to 2nd Nov 2020 at IEFT College Of Engineering Villupuram..
- › Mr. V. Malsoru, Associate Professor, Department of CSE has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "*Blended Learning and Flipped Classroom*" from 2020-8-10 to 2020-8-14 at Sardar Vallabhbhai National Institute of Technology Surat.
- › Mr. N. Venkateswaran, Associate Professor, Department of CSE has participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "*Artificial Intelligence*" from 2020-11-16 to 2020-11-20 at Panimalar Engineering College.
- › Ms. V. Neelima, Associate Professor, Department of CSE has participated in an AICTE sponsored one week Online Short Term Training Programme on "*Cyber Security & Block-Chain Technologies*" organized by Department
- › Ms. Polsani Pranitha, Associate Professor, Department of CSE has participated and successfully completed the AICTE Sponsored One Week Online Short Term Training Programme (STTP) on "*Machine Learning and Deep Learning Techniques for Artificial Intelligence Problems using Python (MLDLT 2020)*", Series-1: Insights into Machine Learning for solving Artificial Intelligence Problems using Python during 16.11.2020 – 21.11.2020, organized by the Department of Information Technology, VNRVJIET, Hyderabad.
- › Ms. B. Umarani Assistant Professor, Department of CSE has participated in 12 Hours of Faculty Development Program on "*Introduction to Angular JS*" - Online Live FDP conducted by ICT Academy on 21 Sep 2020 to 26 Sep 2020.

IPR

- › Dr. R. Jegadeesan has published patents
 - Titled "*Door Mounted Door Handle Sanitizer Dispenser*" with Patent number- 202041028733, Journal Number- 28/2020, Journal Date- 10/07/2020.
 - Titled "*IOT Enabled Calorie counter wrist watch*" with Patent number - 202041030037, Journal Number- 31/2020, Journal Date- 31/07/2020
 - Titled "*An Intelligent Mobile alert system for Reservoir water Level and flow indication integrated with GPS for farmers*" with Patent number-202041032052, Journal Number- 34/2020, Journal Date- 21/08/2020.
- › Ms. Jothiprabha, Associate Professor, Department of CSE has published a Indian patent titled "Method for Identifying Dyslexia based on Eye Movements" with Patent Number -202041053300, Journal Date- 11/12/2020.

TECH NEWS



ALUMNI COLUMN

With passage of time, more than 23 years have passed since its inception. Alumni of this renowned group have spread their aura by making its presence felt at global level. They have reached to various senior management positions in government, private and It sector and have their say in taking important decision. We wish all our alumni success in all their future endeavors.



K. EKAMBARESWARA SWAMY
 B.Tech EEE (1997-2001)
 JNTUH Topper & Gold Medalist
 Designation: DGM
 Company Name: NTPC-KUDGI (KARNATAKA)
 Location: KARNATAKA

“ Discipline is the bridge between goals and accomplishment. ”

- Jim Rohn




MOTIVATION GETS YOU GOING BUT
DISCIPLINE KEEPS YOU GROWING



JYOTHISHMATHI
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