

# Newsletter





## **ABOUT US**

GMR Institute of Technology was established in the year 1997 by GMR Varalakshmi Foundation - the corporate social responsibility arm of GMR Group - GMRIT offers aspiring engineers high quality technical education. Located in Rajam, Vizianagaram district of Andhra Pradesh, GMRIT provides its learning community state-of-theart facilities, infrastructure and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real world experiences. It is this emphasis on a well-rounded education that makes GMRIT a preferred institute among engineering colleges in India. It offers nine undergraduate and six Postgraduate programs . All the UG Programs are accredited by NBA under Tier-1(Phase 4) and the institution is accredited by the NAAC with A Grade(3rd Cycle). GMRIT is ranked among top 5 colleges in state of AP and among top 50 in the country level. In placements 95% of the students gets placed every year with a medium salary around 5 LPA and maximum salary of 34 LPA.

# **PROGRAMS OFFERED**

#### **B.TECH PROGRAMS**

- Chemical Engineering
- Civil Engineering
- · Computer Science and Engineering
- CSE-Artificial Intelligence and Data Science
- CSE-Artificial Intelligence and Machine Learning
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Information Technology
- Mechanical Engineering

#### **M.TECH PROGRAMS**

- CSE-Cyber Security
- Environmental Engineering
- · Power and Industrial Drives
- Thermal Engineering
- Transportation Engineering
- VLSI and Embedded Systems Design



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#### **GMR INSTITUTE OF TECHNOLOGY**

An Autonomous Institute affiliated to JNTUGV VIZIANAGARAM (DIST),532127 ANDHRA PRADESH

#### **Achievements**

➤ Education World: Ranked 1<sup>st</sup> in AP and 33<sup>rd</sup> in India's among the Top 85 Private Engineering Institutes across the Country, 2022.



- ➤ Data Quest CMR: Ranked 2<sup>nd</sup> in Andhra Pradesh and 28 in country among Top 100 Tech-enabled T-Schools across the country, 2022.
- ➤ GMRIT has been an active Nodal centre for Virtual Labs under the National Mission on Education through Information and Communication Technology during the period 11-03-22 to 31-12-22

# < CERTIFICATE OF R··· □ :



- ➤ NBA Accreditation for Information Technology is extended till 30th June 2024.
- ➤ India Today: Ranked 73<sup>rd</sup>in the country and 2<sup>nd</sup> in AP June 2021.
- ➤ NIRF,MHRD : Ranked in the band of 201 250, September 2021

#### **Institute Related**

➤ International Womens Day was celebrated on 8<sup>th</sup> March Smt. M. VijayaSuneetha, I.A.S Joint Collector & Addl. District Magistrate, Srikakulam is the chief guest



Annual Day and Sports Day celebrated on 23<sup>rd</sup> April 2022, Dr. K. V. Ramana Chary, Director,

Indian Institute of Science Education and Research Berhampur, Guest of Honour and distinguished alumni, Mr. V. Paradesi Naidu, Deputy Commissioner (GST), Visakhapatnam



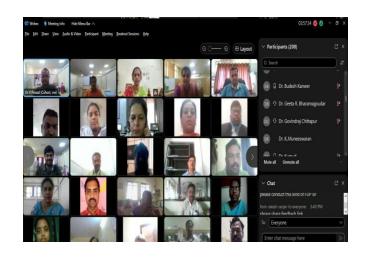
➤ Conducted TECHNOVATE-2022 Intra Collegiate Techfest from 29<sup>th</sup> to 30<sup>th</sup> April 2022.



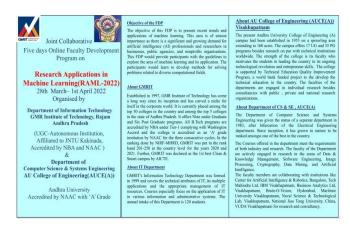
➤ Inaugurated the Bamboo processing common facility by DST officials Dr DebapriyaDutta, Head SEED division, Dr Gopi Krishna and Dr RajniRawat on 30<sup>th</sup> April 2022.



- ➤ GMRIT-Department of Chemical Engineering in collaboration with NIT Warangal, conducted a 5 days FDP on "Green Technologies towards Sustainable Future GTTSF-2022" during 8th − 12th March 2022
- ➤ GMRIT-Department of ECE in collaboration with Sri Sairam Institute of Technology –Chennai, conducted a 5 days FDP on "Advanced Signal Processing, Communications using AI and ML Techniques" during 21<sup>st</sup> 25<sup>th</sup> March 2022
- ➤ GMRIT-Department of CSE in collaboration with VSREC, conducted a 5 days FDP on "Advancement in Security using Deep Learning" during 21<sup>st</sup> 25<sup>th</sup> March 2022



➤ GMRIT-Department of IT in collaboration with Andhra University, conducted a 5 days FDP on "Research Applications in Machine Learning (RAML-2022" during 28<sup>th</sup> March – 1<sup>st</sup> April 2022



➢ GMRIT-Department of EEE in collaboration with V.R.SidharthaEngg. College, Vijayawada , conducted a 5 days FDP on "Recent Advancements in Generation and Control in Modern Power Systems" during 7<sup>th</sup> − 12<sup>th</sup> March 2022



- ➤ GMRIT-Department of BS&H in collaboration with National Institute of Technology, Mizoram, conducted a 5 days FDP on "Role of Basic Sciences in Emerging Technologies" during 9<sup>th</sup> − 14<sup>th</sup> March 2022
- ➤ Organised a virtual Guest lecture for 3<sup>rd</sup> year Civil students on "Advanced Lightweight Concrete" by Mr. Sivaram Kumar, Director technical operations, Luca Industries International, Berlin, Germany

- ➤ Organised a virtual Guest lecture for 4<sup>th</sup> year Civil students on "Introduction and Implementations of BIM in Construction Industry" by Mr. M. AbishekaPriyan, BIM Manager, CADS/CSI Network services, DUBAI
- Mrs. Jaya Murthy w/o Mr Phaneesh Murthy (Ex Director of Infosys and Ex CEO of iGATE) visited the campus and addressed the students on 27<sup>th</sup> April 2022
- Mr. Kamal Saksena\_Group Head E&I visited the campus and addressed the students on 29<sup>th</sup> April 2022.
- ➤ Mr Neralla Manikanta(8<sup>th</sup> sem) form ECE department secured All India Rank-70 in GATE-22



- ➤ GMRIT ACM & ACM-W Student Chapters organized the various events on Talk Teens, Introduction to Competitive Programming, QR hunt, SIG Discussions Cyber Security, Introduction to Python,
- ➤ GMRIT CSI Student Chapters organized the various events on Mock INFY TQ, Preface to C 2.0, Code War.
- ➤ GMRIT ISTE Student Chapters organized the various events on Group discussion on emerging technologies, Avishkar, Tech war, Technical Writing, Open Mic, Technical Quiz.
- ➤ Women Empowerment Cell organized Webinar on "Awareness on Health, Hygiene and Cleanliness"
- ➤ Guest Lecture and Interactive Session on Studies Abroad in US with Resource Persons from Indiana University-Purdue University Indianapolis(IUPUI) on 6th April 2022.
- ➤ Guest Lecture by Resource Person on Library Applications organized online by NIT-KGP on 12th April 2022.

- ➤ Under GMRIT GRADS'TALK SERIES, Chemical Engg. Alumni Mr. Veerabhadrarao Vetcha , Manager Environment, J. K. Cements Limited (Alumni, 2004-2008) has given presentation on "Innovations on Environment" on 26<sup>th</sup> April for 3rd & 2nd year students
- ➤ Wipro NASSCOM FutureSkills Program | Certificate Distribution Event (Virtual) happened, as our students received around 244 certifications, we were listed at 4th position in the top 10 institutions in the country.
- ➤ 2 of our NCC volunteers selected for National Integration Camp at MaharshiMarkandeshwar University, Mullan, Ambala (Haryana) from 22-03-2022 to 28-03-2022.
- Organised Five Day Faculty Development Program titled on "Advanced Signal Processing, Communications using AI and ML Techniques".
- ➤ Institution of Engineers (IE) organized the event Capture the moment & Share tech
- ➤ NSS unit organized Blood Donation Camp on 20th April 2022.



➤ Department of CSE conducted Deep Datathon which is ML based Hackathon from 1st April to 2<sup>nd</sup> April 2022

# Academic Achievements Technical Paper Publication in Conferences

- ➤ Balaga Viswanadham, V. Vishwanathan, Komandur V. R. Chary presented a paper on "The Effect of V/P ratio inVanadium Modified Heteropolyacid Catalysts on Dehydration of Glycerol to Acrolein" International Conference on Advances in Chemical and Materials
- > ShaikShadulla presented a paper on "Synthesis and characterization Multi-Walled of Nanotubes Supported Platinum Catalyst for Proton Membrane Exchange (PEM) Fuel Performance" in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College of Technology, Hyderabad during April 14 - 16, 2022.
- ➤ DeepshikhaDatta, SampurnaSantra, Bimal Das presented a paper on "Role of Extracted Nanosilica from Rice Rusk on the Structure, Property and Biodegradability of LDPE/Starch Biodegradable Film"in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College of Technology, Hyderabad during April 14 16, 2022.
- DeepshikhaDatta, Bimal Das, RakeshPatnaik presented a paper on "Jute Fiber reinforced unsaturated polyesters laminate preparation using egg shells filler", in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College of Technology, Hyderabad during April 14 16, 2022.
- DeepshikhaDatta, ShefaliMumtaj, Bimal Das presented a paper on "Synthesis of Gold Nano Particles Using OldenlandiaCorymbose Plant

- Extract" in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College of Technology, Hyderabad during April 14 16, 2022.
- ➤ DeepshikhaDatta, DivakarPamanji, Bimal Das presented a paper "Production and Optimization of LDPE with Bio & Inorganic Filler Polyblend through Response Surface Methods using Central Composite Design" in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College of Technology, Hyderabad during April 14 16, 2022.
- SayantanSarkar, DeepshikhaDatta, Bimal Das presented a paper "Experimental Elucidation of performance of four extracting solvent for reclamation of spent lubricating oil using extraction-flocculation" in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College Technology, Hyderabad during April 14 - 16, 2022.
- DivakarPamanji, P Satya Sagar, DeepshikhaDatta presented a paper "Modelling and Optimization of Coagulation of Phosphates in the Drinking water Response Surface Methodology". bv International Conference on "Advances Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Technology, Institute of Kolkata University College of Technology, Hyderabad during April 14 - 16, 2022.
- P Kalyan Chakravarthi, D.Yuvaraj, V Venkataramanan presented a paper "IoT-based smart energymeter for smart grids", 6th IEEE International Conference on Devices, Circuits and Systems (ICDCS'22), Karunya Institute of

- Technology and Sciences, Coimbatore, Tamilnadu, India, 22<sup>nd</sup> April,2022.
- ➤ P Kalyan Chakravarthi, D.Yuvaraj, V Venkataramanan presented a paper "IoT-based smart energymeter for smart grids", 6th IEEE International Conference on Devices, Circuits and Systems (ICDCS'22), Karunya Institute of Technology and Sciences, Coimbatore, Tamilnadu, India, 22<sup>nd</sup> April,2022.
- Cristin, R., Satish, A.R., Kundu, T.K., Maram, B. (2022) presented a paper on "Malaria Disease Prediction with Ensemble Learning Technique", In: Saini, H.S., Sayal, R., Govardhan, A., Buyya, R. (eds) Innovations in Computer Science and Engineering. Lecture Notes in Networks and Systems, vol 385. Springer, Singapore. https://doi.org/10.1007/978-981-16-8987-155
- > Gokulan R presented a paper on Biosorption of Chromium (VI) From Water Environment by Continuously Mixed Batch Reactor TFS" Virtual International Conference Sustainable Practices and Innovations in Civil Engineering 2022. Department of SSN College Engineering, of Engineering, Kalavakkam, Tamil Nadu, India, 16<sup>th</sup> and 17<sup>th</sup> March.
- SatishMuppidi, AnupamaAngadi, SatyaKeerthiGorripati,
- presented a paper on "Semi-Supervised Label Propagation Community Detection on Graphs with Graph Neural Network", International Conference on Artificial Intelligence trends and Pattern Recognition 2022, Organized by Vardhaman College of Engineering, Hyderabad.
- P Satya Sagar, DeepshikhaDatta, presented a paper on
  - "Biodegradationofphenolusing *Nocardiahydrocarb* onoxydans, *Saccharomycecerevisiae* and Candida slooffi microorganisms immobilized on glass balls— A comparative study". in International

glass balls— A comparative study", in International Conference on "Advances in Chemical and Materials Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar Heritage Institute of Technology, Kolkata Osmania University College of Technology, Hyderabad during April 14 - 16, 2022.

- A. Uriti, S. P. Yalla and K. R. Chintada presented a paper on "An Approach of Understanding Customer Behavior with an Emphasis on Rides," 2021 Innovations in Power and Advanced Computing Technologies (i-PACT), 2021, pp. 1-5, doi: 10.1109/i-PACT52855.2021.9696837.
- ➤ Vasudha Rani, V., Das, S., & Kundu, T. K. (2022) presented a paper on "Risk Prediction Model for Lung Cancer Disease Using Machine Learning Techniques", In Innovations in Computer Science and Engineering (pp. 417-425). Springer, Singapore
- ➤ HarikrishnaMarrapu, BalajeeMaram, PrasaduReddi presented a paper on "New Analytic Framework Of Public Mental Health Prediction Using Data Science"IEEE International Conference on Smart Technologies and Systems for Next Generation Computing" held at IFET College of Engineering on 25th and 26th March 2022.
- Balaga Viswanadham, V. Vishwanathan, Komandur V. R. Chary have presented on "The Effect of V/P ratio in Vanadium Modified Heteropolyacid Catalysts on Dehydration of Glycerol to Acrolein" International Conference on Advances in Chemical and Materials Sciences, is organized by Indian Institute of Chemical Engineers, Kolkata In association with National Institute of Technology, Jalandhar, Heritage Institute of Technology, Kolkata, Osmania University College of Technology, Hyderabad, 14th -16th, April 2022.

#### Published in Journals

- ➤ J Ravi Kumar Ee: P.K. Dash, Eluri N.V.D.V. Prasad, Ravi Kumar Jalli, S.P. Mishra published a paer titled, "Multiple power quality disturbances analysis in photovoltaic integrated direct microgrid using adaptive morphological filter with deep learning algorithm" Journal of Applied Energy. Vol.309, no.1, March 2022, Article 118454 [Indexed by SCI] https://www.sciencedirect.com/science/article/abs/pii/S0306261921016792
- Samuel Talari, Satya Kamal Chirauri, P.V.S.S.S.N. Reddy, K. Ramachandra Rao published a paer titled, "Photoluminescence studies of Bi3+/Dy3+ co-doped LaGao3 nanophosphors for display device applications, Materials Today: Proceedings", Vol. No.52, pp 2224-2227, March

- 2022. (ISSN No.:2214-7853) (Indexed in: Scopus) https://doi.org/10.1016/j.matpr.2021.08.042
- ➤ B.V.NaveenKumar,T.Samuel, SamathaBevera, K.RamachandraRao, Satya Kamal Chirauri published a paer itled, "Bright blue emissions on UV-excitation of labo3 (B=In, Ga, Al) perovskite structured phosphors for commercial solid-state lighting applications", Chimica Techno Acta, Vol. No.9, Issue No.01, pp 20229107, March 2022. (eISSN No.:2411-1414) (Indexed in: Scopus) (Impact Factor: 1.24)

https://izvestia1.urfu.ru/index.php/chimtech/article/vie w/5232

- GovindaDharmana, ThirumalaraoGurugubelli, PrabhakarasrinivasaraoMasabattula, BathulaBabu and KisooYoo published a paer titled,"Facile synthesis, characterization and photocatalytic activity of hydrothermally grown Cu2+-doped ZnO-SnSnanocomposites for MB dye degradation" ,Catalysis,Vol.12, Issue No..03, Article no: 328, March 2022. (ISSN No.: 2073-4344) (Indexed in: SCIE and Scopus) (Impact 4.146)(Q2) https://www.mdpi.com/2073-Factor: 4344/12/3/328
- DhilleswaraRaoVaddi , ThirumalaRaoGurugubelli , RavindranadhKoutavarapu, Dong-Yeon Lee, Jaesool Shim published a paer titled, "Bio-Stimulated Adsorption of Cr(VI) from Aqueous Solution by Groundnut Shell Activated Carbon@AlEmbedde Material" Catalysis, Vol.12, Issue No..03, Article no: 328, March 2022. (ISSN No.: 2073-4344) (Indexed in: SCIE and Scopus) (Impact Factor: 4.146)(Q2) https://www.mdpi.com/2073-4344/12/3/290
- Veera Venkata Satya Nag Lakshmi Andra, S. V. N. Pammi, Lakshmi Venkata Krishna PrivaBhatraiu. Lakshmi Kalvani Ruddaraju published a paer titled, "A Comprehensive Review on Novel Liposomal Methodologies, Commercial Formulations, Clinical **Trials** and Patents" March 2022, BioNanoSci. (2022). (ISSN No.: 2191-1630) (Indexed in: ESCI and Scopus)(Published online only) (Q3)https://doi.org/10.1007/s12668-022-00941-x
- Sujatha S, Gokulan R, Zunaithur Rahman D.R &Yogeshwaran V published a paer titled, "Investigation of Mechanism of Metal Ion Adsorption fromAqueous Solutions using Prosopis JulyfloraRoots: Batch and FixedBedColumnStudies", Global NEST, March

- 2022, (Impact Factor: 1.04) (Indexed in SCI and Scopus, Q3) (ISSN: 1108-4006, 1790-7632 DOI: https://doi.org/10.30955/gnj.004061
- U Siva Rama Krishna & T Chiranjeevi published a paer titled, "Sustainableconcrete pavements for low volume-Scientometricanalysis of literature".ads-IOP Conferenceseries: Earth and Environmental Science,982(2022)12005. (ScopusIndexed) (Impact factor:0.41) doi:10.1088/1755-1315/982/1/012005 (Q4).
- A. Sudhakar, M. Satyanarayana, M. Sunil published a paer titled, "Circularly Polarized Tri-Band Ring Dielectric Resonator Antenna for WiMAX/INSAT/WLAN Applications", International Journal of Microwave and Optical Technology, vol. 17, no. 2, pp. 188-195 (Indexed by Scopus, IF: 0.67, Q4, https://www.ijmot.com/VOL-17-NO-2.aspx)
- M.Vinay Kumar, U.Salma have submitted a proposal titled, "Modeling, Analysis of Islanding Detection Techniques for 3-Phase Grid Connected PV System", Design Engineering, vol. Issue: 9 | Pages: 7234 7245, 2021, https://thedesignengineering.com/index.php/DE/art icle/view/7803
- M.Vinay Kumar, U.Salma have submitted a proposal titled, "Modeling, Simulation and Analysis of A Grid Connected Solar Photovoltaic Power Generation System Using MATLAB/Simulink", Turkish Journal of Physiotherapy and Rehabilitation, Vol. 32(3), pp. 44438-44446, march 2022 (Indexed: Scopus, IF: Q4, https://doi.org/10.30657/pea.2022.28.10)
- ➤ TummalaS LV Ayyarao, NSS RamaKrishna, Rajvikram Madurai Elavarasam, Nishanth Polumahanthi, M Rambabu, Gaurav Saini, Baseem Khan, Bilal published a paer titled, "War Strategy Optimization Algorithm: A New Effective Metaheuristic Algorithm for Global Optimization," in IEEE Access, vol. 10, pp. 25073-25105, 2022, (Indexed : SCI,IF: 3.367,Q1, doi: 10.1109/ACCESS.2022.3153493).
- ➢ Bo, L., Zhang, X., Luo, Z., Saboori, T., Dehghan, M., Ghasemizadeh, M., Karimi-Maleh, H., Alagumalai, A., Mahian, O., 2021 published a paer titled, "An overview of the applications of ionic fluids and deep eutectic solvents enhanced by nanoparticles". J. Therm. Anal. Calorim. February 2022 (ISSN: 1588-2926) (Indexed in : SCIE and

- scopus) Q2 (Impact factor: 4.6) https://doi.org/10.1007/s10973-021-11097-3;
- Alagumalai, A., Qin, C., K E K, V., Solomin, E., Yang, L., Zhang, P., Otanicar, T., Kasaeian, A., Chamkha, A.J., Rashidi, M.M., Wongwises, S., Ahn, H.S., Lei, Z., Saboori, T., Mahian, O., 2022 published a paer titled, "Conceptual analysis framework development to understand barriers of nanofluid commercialization". Nano Energy 92, 106736. February 2022 (ISSN: 2855) (Indexed in : SCIE and scopus) (Impact 17.8) https://doi.org/https://doi.org/10.1016/j.nanoen.202 1.106736
- ➤ KalilRahiman, M., Santhoshkumar, Subramaniam, D., Avinash, A., Pugazhendhi, A., 2022 published a paer titled, "Effects of oxygenated fuel pertaining to fuel analysis on diesel engine combustion and emission characteristics". Energy. January 2022 (ISSN: 0360-5442) (Indexed in : SCIE and scopus) (Impact factor: 7.147Q1 https://doi.org/10.1016/j.energy.2021.122373
- Moorthi, M., Murugesan, A., Alagumalai, A., 2022 published a paer titled, "Effect of nanoparticles on DI-CI engine characteristics fueled with biodiesel—diesel blends—A critical review". J. Therm. Anal. Calorim. February 2022 (ISSN: 1588-2926) (Indexed in : SCIE and scopus) (Impact factor: 4.6) Q2 https://doi.org/10.1007/s10973-022-11234-6
- > Shanmugam, S.K.M., Muthusamy, S., Ramasamy, R.K., Alagumalai, A., 2022 published a paer titled, "Towards improved performance and lower exhaust emissions using exhaust gas recirculation coupled compression ignition engine fuelled with nanofuel blends". Energy Sources, Part A Recover. Eff. Util. Environ. 0, 1–17. February 2022 (ISSN: 1556-7036) (Indexed in : SCIE and scopus) Q2 (Impact factor: 3.44) https://doi.org/10.1080/15567036.2022.2038734
- A. Lakshumu Naidu, V. Rambabu 2022 published a paer titled, "Acoustic noise optimum analysis on home appliances", International Journal of Mechanical Engineering, Vol. 7, No.1, January 2022, pp. 7001-7010, (ISSN: 0974-5823) (Indexed in : scopus) Q4 https://kalaharijournals.com/resources/IJME\_Vol7. 1\_742.pdf

- VinodBabuChintada, Thirumala Rao Gurugubelli, RavindraKotavarapu published a paer titled, "An investigation over the effect of the reducing agent on the properties of the ZnO-reinforced Ni–P coatings", Journal of Materials Science: Materials in Electronics, DOI: https://doi.org/10.1007/s10854-021-07366-4. (Indexed by SCIE) Q2 https://link.springer.com/article/10.1007/s10854-021-07366-4
- GortiJanardhan, GoutamMukhopadhyay, Krishna Dutta published a paer titled, "Failuremechanism of resistance spot-welded DP600 steelunderhigh cycle fatigue", MaterialsToday: Proceedings, Note yetassigned quartile https://www.sciencedirect.com/science/article/pii/S 2214785322016649
- ➤ GaneshPrabhuGanapathy published a paer titled, "Axial compressive behaviour of CFST columnexternallyreinforced by CFRP strips A design of experimentsapproach". Journal of Reinforced Plastics and Composites, SAGE Publications, https://doi.org/10.1177%2F07316844221085653, (Indexed in SCI, I.F: 3.71, Q1)
- GaneshPrabhuGanapathy, Lakshmi Keshav, GokulanRavindiran, and Nasar Ali Razack published a paer titled, "StrengthPrediction of Self-ConsolidatingConcreteContainingSteel Fibre withDifferent Fibre Aspect Ratio", Journal of Nanomaterials, Hindawi Publications, Volume 2022, Article ID 7604383, https://doi.org/10.1155/2022/7604383, (Indexed in SCI, I.F: 2.986, Q2)
- Arun Solomon, A., Hemalatha, G., Sudheer, G., Shelton, J.J., Carmichael, M.J. published a paer titled, "Exploring the impact of EPS incorporation of on insulatedconcreteform (ICF) wall panels under axial compression and flexure", Journal of King SaudUniversity Engineering Sciences, April-2022, doi: https://doi.org/10.1016/j.jksues.2022.04.002. (Indexed in Scopus,Q1)
- ➤ Priyadarshini, M. and Giri, J. P. (2022) published a paer titled, "Use of RecycledFoundry Sand for the Development of Green Concrete and Its Quantification." Journal of Building Engineering, Elsevier Publication, (Published online), DOI: https://doi.org/10.1016/j.jobe.2022.104474, (SCI, Q1),

- ➤ JayaprakashSridhar, RavindranGobinath& Mehmet SerkanKirgiz published a paer titled, "Comparative study for efficacy of chemicallytreated jute fiber and bamboofiber on the properties of reinforcedconcretebeams", Journal of Natural Fibres, pp 1-11, April 2022. (ISSN No.: 15440478.) (Indexed in:SCI,Q1) (Impact Factor:5.323), https://www.tandfonline.com/doi/abs/10.1080/154 40478.2022.2054894?journalCode=wjnf20.
- ➤ Srinivasan K ,BobbiliAravind S A, Gokulan R, Jodhi C, Muralikrishnan R, Ragunath S, Zunaithur Rahman D R, and Nasar Ali R published a paer titled, "Decolourization of ReactiveRed 120 Using Agro Waste-DerivedBiochar", Advances in material sciences and engineering, Vol. 2022, Article ID 2689385, (Indexed in SCI, I.F: 1.726, Q2), (ISSN No: 1687-8434), https://doi.org/10.1155/2022/2689385.
- > Srinivasan K, BobbiliAravind S, Gokulan R, Balakumar S, Muralikrishnan R, JanakaniUdayB Bonu R, and Nasar Ali R (2022) have submitted a "Effective Removal proposal titled, ReactiveYellow 145 (RY145) usingBiocharDerivedfromGroundnut Shell", Advances in material sciences and engineering, Vol. 2022, Article ID 2689385, (Indexed in SCI, I.F: 1.726, Q2), (ISSN No: 1687-8434) https://doi.org/10.1155/2022/8715669.
- P Kalyanchakravarthi, D Y Varaprasad, T V JanadhanaRao, A. Suresh have submitted a proposal titled, "Virtual technology for smart education", International Journal of Health Sciences, vol. 6, no. 2, pp. 5457-5465 (Indexed by Scopus, IF: 1.75, Q4, https://doi.org/10.53730/ijhs.v6nS2.6367)
- ➤ Suresh dannana have submitted a proposal titled, "Blood group detection using ML classifier", International Journal of Health Sciences, vol. 6, no. 1, pp. 4395-4408 (Indexed by Scopus, IF: 1.75, Q4, https://doi.org/10.53730/ijhs.v6nS1.5830)
- ➤ GovindaRaoLocharla; Sheela. V. K; S. Lakshmi, TriptiTiwari published a paer titled, "Review of deep learning based methods for sleep apnea detection", International Journal of Health Sciences, vol. 6, no. 2, pp. 6556-6565 (Indexed by Scopus, IF: 1.75, Q4, https://sciencescholar.us/journal/index.php/ijhs/article/view/6556)

- VirodhiDakshayani, GovindaRaoLocharla, PawełPławiak, VenkataramanaDatti and Chiranjeevi published a paer titled, "Design of a Gabor Filter-Based Image Denoising Hardware Model" vol. 11, no. 7, pp. 1-16 (Indexed by SCI, IF: 2.1, Q3, https://www.mdpi.com/2079-9292/11/7/1063)
- D.V.N.Ananth, L.V. Suresh Kumar, D.A. Tatajee published a paer titled, "Independent Active and Reactive Power Control for Single Stage H8 Transformer-less Solar PV Inverter" Journal of Engineering Research (indexed by SCIE,IF:0.64,Q3https://kuwaitjournals.org/jer/index.php/JER/article/view/10671).
- Rambabu. Muppidi, R. S. S. Nuvvula, S. M. Muyeen, SK. A. Shezan, and Md. F. Ishraque published a paer titled, "Optimization of a Fuel Cost and Enrichment of Line Loadability for a Transmission System by Using Rapid Voltage Stability Index and Grey Wolf Algorithm Technique," Sustainability, vol. 14, no. 7, p. 4347, Apr. 2022,(Indexed by SCIE,IF: 3.251, Q2, http://dx.doi.org/10.3390/su14074347)
- VykuntaRao, M., RajuBahubalendruni, M. V. A., &Chintada, V. B. (2022) published a paer titled, General Regression Neural Network-Based Frame Work for the Evaluation of Ultimate Tensile Strength of Vibratory-Assisted Welded Joints. In Recent Advances in Manufacturing, Automation, Design and Energy Technologies (pp. 173-180). Springer, Singapore.
- Prasad, V. S. S., Anil Kumar Gulivindala, SudhakarUppada, VykuntaRao Matta, M. V. A. RajuBahubalendruni, and B. B. Biswal published a paer titled, "A Design for Assembly Framework Based on Subassembly Detection Method." In Recent Advances in Manufacturing Modelling and Optimization, pp. 511-519. Springer, Singapore, 2022.
- ➤ Suresh, B.V., Shireesha, Y., Rao, P.S. (2022) published a paer titled, Effect of Electrode Vibration Welding on Impact and Tensile Strength of 1018 Mild Steel Weld Joints. In: Dave, H.K., Dixit, U.S., Nedelcu, D. (eds) Recent Advances in Manufacturing Processes and Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-7787-8 26
- Shireesha, Y., Nandipati, G. (2022) published a paer titled, Experimental Study on Tensile Behavior

of Tri-axialHybridFiber Composites. In: Dave, H.K., Dixit, U.S., Nedelcu, D. (eds) RecentAdvances in ManufacturingProcesses and Systems. Notes Mechanical Lecture in Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-7787-8 40

### Workshops/Conference Attended

- ➤ Giri, J. P., Priyadarshini, M. and Mahakhud, R., attended a conference on "Variability in the Compressive Strength of Paving Blocks UsingWaste Plastic". 2nd International Conference on Materials, Mechanics& Structures (ICMMS 2022), NIT Calicut, March 10-12, 2022.
- ➤ Department of CSE, GMRIT organized a Joint FDP with VSREC on "Advancement in Security using Deep Learning" from 21-25 March 2022 with a total of 268 participants. Internal:61 External: 207
- Smt. A.SivaSangariAyappan attended Five day FDP on "Advanced Signal Processing, Communications using AI and ML Techniques", GMR Institute of Technology, Rajam 21.03.2022 to 25.03.2022.
- ➤ Dr. V. Kannan attended Five day FDP on "Advanced Signal Processing, Communications using AI and ML Techniques, GMR Institute of Technology, Rajam, 21.03.2022 to 25.03.2022.
- ➤ Dr J. Venkata Suman attended "Introduction to Programming with MATLAB" Coursera, Venderbilt University, 19.02.2022 (9 Weeks), "Computer Vision with Embedded Machine Learning" Coursera, Edge Impulse, 19.02.2022 (3 weeks).
- ➤ Dr. D. Srinivasa Rao attended FDP on "Artificial Intelligence for IoT Services in Cloud: Techniques & Applications" NITJ(Online-mode), 28.02.2022 to 04.03.2022, "signal and image processing techniques for next generation applications", NITW(Online-mode), 04.03.2022 to 13.03.2022.
- ➤ Dr. G.B.S. R.Naidu, attended FDP on "Artificial Intelligence for IoT Services in Cloud: Techniques & Applications", NITJ(Online-mode) 28.02.2022 to 04.03.2022., "signal and image processing techniques for next generation applications" NITW(Online-mode), 04.03.2022 to 13.03.2022.
- ➤ Dr. G. NookaRaju, attended two weeks FDP on "Signal processing" NIT Warangal, 04.03.2022 to 13.03.2022.

- ➤ Dr. B. Anil Kumar attended FDP on "Design and Implementation of Smart Internet-of-Things (IoT) Systems" NIT Warangal, Telangana, India, 23.03.2022 to 27.03.2022.
- ➤ Dr. K.SantaRao attended Faculty Development Programme (FDP) on "Recent Trends in Upstream Petroleum Technology" organized by AICTE, New Delhi from 07.03.2022 to 11.03.2022
- ➤ Mr. SudhakarUppaada attended Faculty Development Programme (FDP) on "Artificial Intelligence/Machine Learning from Mechanical Engineering Problems" organized by Shri Vishnu Engineering College for Women, Bhimavaram from 21.03.2022 to 26.03.2022
- ➤ Dr. BappaMondal attended One Week short Term Course on "Energy Conservation for Sustainable Society: Innovation and Entrepreneurial Opportunity" organized by National Institute of Technology Silehar, Assam from 27.02.2022 to 04.03.2022.
- Mrs. Y. Sireesha attended One Week Online FDP on "Artificial Intelligence/Machine Learning for Mechanical Engineering Problems" organized by Sri Vishnu Engineering College for Women (Autonomous and NAAC 'A" Grade from 21.03.2022 to 26.03.2022.
- ➤ Mrs. Y. Sireesha attended One Week online Faculty Development Programme on "Recent Advancements in Generation and Control in Modern Power Systems" organized by GMR Institute of Technology, Rajam and VelagapudiRamankrishna Siddhartha Engineering College, Vijayawada, AP from 07.03.2022 to 12.03.2022.
- ➤ Dr. B. Venkata Suresh attended One Week online Faculty Development Programme on "Recent Advancements in Generation and Control in Modern Power Systems" organized by GMR Institute of Technology, Rajam and VelagapudiRamankrishna Siddhartha Engineering College, Vijayawada, AP from 07.03.2022 to 12.03.2022.
- ➤ Dr. B. Venkata Suresh attended One Week Online FDP on "Artificial Intelligence/Machine Learning for Mechanical Engineering Problems" organized by Sri Vishnu Engineering College for Women (Autonomous and NAAC 'A" Grade from 21.03.2022 to 26.03.2022.
- ➤ Dr. ChintadaVinodBabu attended a online 5 day FDP on "Artificial Intelligence/Machine Learning

- for Mechanical Engineering Problems" organized by Sri Vishnu Engineering College for Women (Autonomous and NAAC 'A" Grade from 21.03.2022 to 26.03.2022.
- ➤ Mr. SimhadriKambala attended a online 5 day FDP on "Role of Basic Sciences in Engineering Technology" organized by National Institute of Technology Mizoram & GMRIT from 09.03.2022 to 14.03.2022.
- ➤ Mr. SasidharGurugubelli attended a online 5 day FDP on "Artificial Intelligence/Machine Learning for Mechanical Engineering Problems" organized by Sri Vishnu Engineering College for Women (Autonomous and NAAC 'A" Grade from 21.03.2022 to 26.03.2022.
- ➤ Mr. SasidharGurugubelli attended a online 1 day Wrokshop on "Cross-discipline Platforms: Scopus, Science Direct and Mendeley" organized by Math Tech Thinking Foundation, India on 11.03.2022.
- ➤ Mr. SasidharGurugubelli attended a online 1 day Webnor on "Hyperloop: The 5<sup>th</sup> form of Transportation" organized by HemantFegade on 03.03.2022.

#### **CO-Curricular Activities**

- ➤ 4<sup>th</sup> year ECE student Mr. N.Manikanta secured 70<sup>th</sup> rank at All India Level in GATE-2022 exam. 22 students qualified for GATE-2022 from GMRIT.
- ➤ 4<sup>th</sup> year Civil students Mr. K. Jagadeesh and Md. MusharatHussain participated All India-Netball championship at Bharathidasan University, Tamilnadu
- ➤ 2<sup>nd</sup> year CSE student Mr. M. Dinesh won first prize in Digital Financial Literacy Awareness Program organized by Union Bank in association with RBI
- ➤ Ms. P. Avykta 1<sup>st</sup> year student represented JNTUK Ball Badminton (Women) at All India Inter University competitions held at SRM University, Chennai
- ➤ Ms. K. Swathi 4<sup>th</sup> year ECE student represented JNTUK at All India Inter University Athletics (Women) Championship held at Bhubaneswar.
- ➤ PAVAN KUMAR GADU, a final year EEE student, SachethSaikiran, SriramJavvadi, and Vijay Mohan Reddy Kammakatla of 4th year Mechanical are doing full time semester internship at UniversitiTeknologi PETRONAS, Malaysia.



#### STELLAR ACHIEVEMENT BY FINAL YEAR GMRIT STUDENTS



- A batch of 4<sup>th</sup> year students (ECE) won 2<sup>nd</sup> prize during Science Exhibition organized by NSTL, Vizag for the project "Smart Gesture Voice control device for duff and dumb People"
- ➤ 3<sup>rd</sup> year Mechanical student Mr. B. Pavan Kumar got Silver Medal in AP State Body Building Championship held at Ongole.
- ➤ 25 students from 2<sup>nd</sup> year are selected for virtual Internship program on Robotic Process Automation, Cyber security and Process Mining.
- ➤ 2<sup>nd</sup>& 3<sup>rd</sup> year students have organized central level Eco-club event on "World water day celebrations" in the theme of "Groundwater Making the invisible visible" on 30.03.2022.
- ➤ In the banner of IICHE student chapter 2nd & 3rd year students have organized an event on "Essay Writing on Industrial Internet of Things" on 02.03.2022.
- ➤ In the banner of ISTE student chapter 2nd & 3rd year students have organized the event "Just a Minute on

Radioactive Waste Management" on 23.03.2022.

➤ In the banner of ISTE student chapter, 2nd & 3rd year students have organized the event "Poster presentation on Reutilization of Medical Waste" on 09.03.2022. ISTE CSE Student chapter organized "Public Speaking Competition" on 08-

- 03-2022 with a total participation of 12 participants.
- ➤ ACM-W Student chapter organized "Femina Zone" on 08-03-2022 with a total participation of 100 students.
- ➤ ACM Student chapter organized "Workshop on Poster Presentation" on 08-03-2022 with a total participation of 60 students.
- ➤ ACM Student chapter organized "SIG DISCUSSIONS : Git & GitHub" on 22-03-2022 with a total participation of 49 students.
- ➤ GMRIT ACM & ACM-W Student chapter organized "Photography Contest", "Art Contest", "Ludo Contest" and "Musical Contest" on 26-03-2022 with a total participation of 16 students.
- ➤ GMRIT ACM Student chapter organized sessions on "DEEP DATATHON" from 27-03-2022 to 31-03-2022 a preparatory course for Datathon to be held on 01-04-2022.
- ➤ GMRIT ACM Student chapter organized "Code-Run-Compete" on 29-03-2022 with a total participation of 45 students.







- ➤ CSI Student chapter organized "Roll & Run" competition on 03-03-2022 with a total participation of 54 students.
- ➤ CSI Student chapter organized "Secret round" competition on 11-03-2022 with a total participation of 20 students.

- ➤ CSI Student chapter organized a "Guest Lecture" on 15-03-2022 with a total participation of 310 students.
- ➤ CSI Student chapter organized a quiz competition "The quizzard" competition on 29-03-2022 with a total participation of 50 students.
- ➤ CSI Student chapter organized a event "Innovage" on 29-03-2022 with a total participation of 70 students.
- ➤ CSI & ACM-W Student chapters organized "Women Codeathon" on 05-03-2022 with a total participation of 78 students.



# Training and Placement

- ➤ As on April 30<sup>th</sup> for 2020-21 outgoing batch
- ☆ Total no of students:852
- ☆ No of Eligible Students:711
- ☆ No. of Students Placed: 596
- ☆ No of Placement offers: 1139
- ☆ No. of companies visited: 77
- ☆ Average annual CTC/Max CTC:4.41/10.50

- ➤ Branch wise and Company wise Placements 2021-22 Batch for GMRIT as on 30.04.2022
- ➤ 154 CSE Students registered for HackwithInfy organized by Infosys and the exam is scheduled in March 2022.
- ➤ Workshop conducted by Pega Team on 10<sup>th</sup> March,2022 for B.Tech 6<sup>th</sup> Sem students(CSE,IT,ECE,EEE) on 10<sup>th</sup> March,2022
- ➤ Workshop and Assessment Test conducted by Pega Team on 10<sup>th</sup> March,2022 for B.Tech 6<sup>th</sup> Sem

| Branch | Total<br>Eligibl<br>e | Offers | Placements |
|--------|-----------------------|--------|------------|
| CE     | 91                    | 72     | 52         |
| CHE    | 18                    | 16     | 11         |
| CSE    | 164                   | 368    | 161        |
| ECE    | 157                   | 321    | 151        |
| EEE    | 90                    | 107    | 67         |
| IT     | 46                    | 89     | 44         |
| ME     | 145                   | 166    | 110        |
| Total  | 711                   | 1139   | 596        |

students(CSE,IT,ECE,EEE) on 10<sup>th</sup> March,2022

- Guest Lecture on "Learning Session "
  Mainframes" LCE18 by SubbaraoTaduvayi,TA
  Campus Coordinator ,Legato for the B.Tech
  6<sup>th</sup>Sem students(CSE,IT,ECE,EEE) on 23<sup>rd</sup>
  March,2022.
- ➤ Guest Lecture on "Learning Session "
  Mainframes" LCE18 by SubbaraoTaduvayi,TA
  Campus Coordinator ,Legato for the B.Tech
  6<sup>th</sup> Sem students(CSE,IT,ECE,EEE) on 30<sup>th</sup>
  March,2022.
- ➤ Gandhi Fellowship Webinar Session conducted by Mr.PManohar,Program Leader Marketing & Recruitment(South)on 20<sup>th</sup> Apr,2022 for B.Tech 8<sup>th</sup> Sem students
- ➤ Aptitude Training Program conducted on 4<sup>th</sup> Apr to 10<sup>th</sup> Apr,2022 for B.Tech(CSE,ECE,IT-A) by Apex team
- ➤ Technical Training Program conducted on 7<sup>th</sup> Apr to 14<sup>th</sup> Apr,2022 for B.Tech(EEE,MECH,Civil,CHEM,IT-B) by FACE team

- ➤ Aptitude Training Program conducted on 15<sup>th</sup> Apr to 21<sup>st</sup> Apr,2022 for B.Tech(CSE,ECE,IT-A) by Apex team
- Technical Training Program conducted on 15<sup>th</sup> Apr to 19<sup>th</sup> Apr,2022 for B.Tech(CSE,ECE,IT-A) by Apex team

