

rajvada news

Department of Mechanical Engineering

R.V.R. & J.C. College of Engineering, Guntur-522019

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Career Development



Students have a wealth of resources available to jumpstart their career development journey. Here's a breakdown of some key resources to consider:

On-Campus Resources: Most colleges and universities have a dedicated career services department. They offer a variety of resources, including:

- **Career counseling:** Meet with career advisors for personalized guidance on self-assessment, resume and cover letter writing, interview skills development, and job search strategies.
- **Mock interviews:** Practice your interview skills in a safe environment with career center staff or alumni volunteers.
- **Job fairs and networking events:** Connect with potential employers and industry professionals at on-campus events.
- **Online resources:** Many career centers offer online resources such as career planning tools, job search databases, and interview preparation guides.

Off-Campus Resources:

- **Professional Associations:** Many industries have professional associations that offer resources for students, including scholarships, internships, and mentorship programs.
- **Online Courses and Training:** Platforms like Coursera and EdX offer a wide range of online courses and training programs that can help students develop in-demand skills for their chosen careers.
- **Informational Interviews:** Reach out to professionals in your field of interest and conduct informational interviews to learn more about their careers and gain insights into the industry.
- **Networking Events:** Attend industry events and conferences to connect with professionals and learn about career opportunities

Research Projects in Progress

- ✦ Prof.V.Chittaranjan Das, Dr.K.Praveen Kumar, an AICTE project, 'Synthesis and characterization of MWCNT/UHMWPE Nano composites for Orthopedic applications' worth Rs.9,09,166/-

Industrial Research Projects in Progress

- ✦ Research project on “Mechanical and Electrical Behaviour of Boron & Vanadium Doped Fe-6.5 (Wt. %) Si Soft Magnetic Alloy Ribbons fabricated by Direct Powder Rolling” of Prof.K.Ravindra, Prof.V.Chittaranjan Das, Dr.K.Praveen Kumar, and K.Snehita.
- ✦ Research project on “Improvement of COP of Air-Conditioning Systems by using different types of Insulations and Nano-compressor oil” of Prof.N.V.V.S.Sudheer, Prof.B.Ramgopal Reddy, Dr.V.Tarachand, Dr.Md.Hasheer.
- ✦ Research project on “Investigation on Performance Improvement methods of transformer using Nano fluids in the perspective of cooling” of Prof.G.Srinivasarao, Prof.C.Srinivas, Dr.K.Balaprakasam, Dr.N.Govind and Ms.Sneha.H.Dhoria.
- ✦ were sanctioned Rs.4,00,000/- for their Research project on “Evaluation and Optimization of process parameters for agitation in concrete mixing” of Dr.C.Tarasasanka, Dr.S.Radhika, J.P.Karthik.
- ✦ Research proposal on “Development and characterization of Boron & vanadium doped fe-6.5(wt. %) Si soft magnetic alloy ribbons with Tio₂ coatings” by Prof.K.Srinivas, Prof.D.V.V.KrishnaPrasad, Dr.G.Chaitanya, Dr.V.Ramakoteswararao, J.Rangaraya Chowdary.
- ✦ Research proposal on “Influence of Heat Treatment on the Characterization of Alumina reinforced AZ91 Mg Alloy Metal Matrix Composites” of Ch.Devaraj, Dr.M.Vijaya, Dr.A.Muddu, G.Kishore Chowdari, K.Hari Prasad.
- ✦ Research project on “Optimization of Selective Laser Melting(SLM) Process Parameters using Taguchi and Super Ranking Concepts to Produce Ti-6Al-4V Alloy Samples” by Dr.R.Sreenivasulu, D.Swapna, K.Lakshmi Chaitanya, D.Kondalarao, Y.N.V.Sairam, T.N.S.RamaKrishna

Internal Research Projects in Progress

- ✦ Research project 'Performance Evaluation of Nickel Coated Alumina Reinforced AZ91E Magnesium Composites for alloy Wheel Applications' of Ch.Devaraj is in progress.
- ✦ Research project 'Experimental Investigation of Herbal based Nano Cutting Fluids with MQL in optimization of Turning' of Dr.D.Kondalarao and Prof.G.Srinivasarao is in progress.

Patents Applications Applied/Published

- ✦ D.V.V.Krishna Prasad, G.Kishore Chowdari, M.Vijaya, J.Rangaraya Chowdary, D.Chakradhar, "Electric Scooter for Handicapped", Application No. 355258-001, at IPR India.
- ✦ B.Ramgopal Reddy, K.L.Chaitanya, Ch.Devaraj, K.Suryanarayana and K.Hari Prasad filed a patent on 'Door Mount Refrigerator', Application No: 355036-001, at IPR India.
- ✦ K.Praveen Kumar, K.Snehita, Sk.Mabunni, D.Kondala Rao and T.N.S.RamaKrishna “A Mechanical Vehicle Tyre Cutting Machine”, Application No.354860-001, at IPR India.
- ✦ V.Ramakoteswara Rao, Md.Hasheer, A.Muddu, P.Siddartha and Ms.Sneha.H.Dhoria, 'Design application of Agricultural Robot', Application No. 355374-001 at IPR India.
- ✦ P.Suresh Kumar, N.Prasanthi Kumari, Vinay Chowdary, Tiyasa bera and Ch.Asha Jyothi, “Leaves shredder”, Application No.345571-001, Dec, 2022.

Research Paper Publications

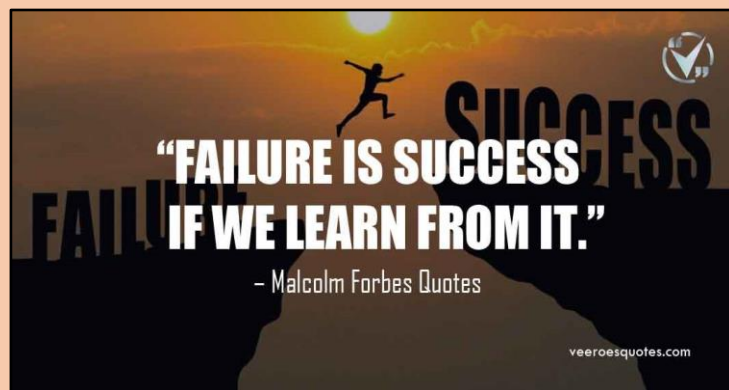
- ✦ T.Siva Kumar, V.Chittaranjandas, K.Srinivas, “Experimental and Testing of Kevlar Carbon and EGlass With 5% Zinc Oxide with various hybrid materials using Hand layup Technique”, The International Journal of analytical and experimental modal analysis, ISSN NO: 0886-9367, 99:1501-1509, July 2022.
- ✦ B. Kiran Kumar, V.Chittaranjan Das, “Study and parameter optimization with AISI P20+Ni in Wire EDM performance using RSM and hybrid DBN based SAR”, International Journal on Interactive Design and Manufacturing, Aug. 2022 <https://doi.org/10.1007/s12008-022-00991-1>.
- ✦ Purna Chandra Sekhar, Kolla Srinivas, Syed Akhil, “Green synthesized graphene- hydrooxyapite nano composites for bio implant applications”, Materials Letters 327(2022) 133059, Aug.2022. <https://doi.org/10.1016/j.matlet.2022.133059>.
- ✦ Naga Venkata Srinivas borra, Veera Venkata Krishna Prasad, “Experimental Investigations of Al-Cr3C2 Composite preform Densification and Deformation”, Annales de Chimie - Science des

“A LITTLE PROGRESS EACH
DAY ADDS UP TO BIG
RESULTS.”

SATYA NANI



- Matériaux, Vol.46, 185-192, Aug. 2022. <https://doi.org/10.18280/acsm.460403>
- ✦ D. Rognatha Rao, C. Srinivas, "Influence of Process Parameters on Microstructure and Mechanical Properties of AS21SiC Composites through Two step Stir Casting", Silicon, Vol. 14(11),Aug,2022, <https://doi.org/10.1007/s12633-022-02046-2>
 - ✦ Burgadda Kiran Kumar, V.Chittaranjan Das, "Study and optimization of WEDM parameters of AISI P20+Ni using RSM and hybrid deep neural network", Advances in Materials and Processing Technologies, 14 Sept. 2022. <https://doi.org/10.1080/2374068X.2022.2116533>.
 - ✦ K. Srikanth, V. Chittaranjan Das, M. Gopi Krishna, "Tribological Properties of Al 7075 Composite Reinforced with ZrB₂ Using Grey Relational Analysis", Advances in Science and Technology Research Journal, 16(4),22-28, ISSN 2299-8624, Sept 2022. <https://doi.org/10.12913/22998624/152020>.
 - ✦ Sneha.H.Dhoria, V.Durga Prasadarao, K.Venkata Subbaiah, 'Thermal analysis on 6351Al/Gr/Sic hybrid metal matrix composites fabricated by squeeze casting process', YMER, Vol:21(10), Oct.2022. <https://doi.org/10.37896/YMER21.10/A5>
 - ✦ J.P.Karthik, C.M.Raghuraman, C.Tara Sasanka, "Investigation on pH influence for the effective transportation of coal water slurry using experimental design", International Journal of Coal Preparation and Utilization, Nov.2022, <https://doi.org/10.1080/19392699.2022.2149511>.
 - ✦ R.Sreenivasulu and G.Chaitanya, "Self adaptive penalty method coupled with metaheuristic algorithms to optimization of varying geometrical parameters in drilling for multi hole parts", Sigma Journal of Engineering and Natural Sciences, Vol.40(4), 855-867, Dec, 2022. <https://doi.org/10.14744/sigma.2022.00101>
 - ✦ M.R.A.Refaai, S.Narayanasamy, V.Chittaranjan Das, D.V.S.S.S.V.Prasad, N.Nalini and Subash Thanappan, "Mechanical Properties of Ramie/Hemp Hybrid Composites Influenced by tacking Arrangement and NaOH Treatment", Advances in Polymer Technology, Vol.2022, <https://doi.org/10.1155/2022/8737669>
 - ✦ Itha Veeranjanyulu, Chittaranjan Das Vemulapalli, M.Gopi Krishna, "Fabrication, Microstructure, and Mechanical Properties of AZ31/Silicon Carbide/Graphite Reinforced Hybrid Composites", Advances in Science and Technology Research Journal, 16(6), 286-293, <https://doi.org/10.12913/22998624/156915>.
 - ✦ B Kiran Kumar, V.Chittaranjan Das, "Perspective and Prospects of Wire Electric Discharge Machining", Journal of Engineering Technological Sciences, Vol:54(5), 2022, 2205xx, <https://doi.org/10.5614/j.eng.technol.sci.2022.54.5.9>
 - ✦ Pavan Balappa Bagali, N. I. Haroon Rashid, C. Srinivas, "Examine the Mechanical Properties of Aluminium Tetrahydride/Calotropis Gigantea based Hybrid Polyester Composites in Cryogenic Atmosphere", Advances in Polymer Technology, <https://doi.org/10.1155/2022/9164777>.
 - ✦ D.Swapna, Ch. Srinivas rao, D.Sameer Kumar, S.Radhika, "Taguchi based GRA-PCA hybrid optimization for the forming of AL6061 alloy in automotive applications", Sigma,40(4), 742-754. <https://doi.org/10.14744/sigma.2022.00090>.
 - ✦ Kiran, R.N.D.S.S., C.Aparna,S.Radhika,"Identification of Potential Quality of Groundwater using Improved Fuzzy C Means Clustering Method", Mathematical Modelling of Engineering Problems, Vol. 9(5), 1369-1377. <https://doi.org/10.18280/mmep.090527>.
 - ✦ K.L.Chaitanya, K.Srinivas, "Evaluation of wear behaviour based on Mechanical Properties and particle Size in Lm26 Mmc", Strojnický časopis – Journal of Mechanical Engineering, Vol.72(2), 93-102,2022. <https://doi.org/10.2478/scjme-2022-0019>



Guest lectures delivered

- ✦ K.Praveen Kumar delivered a guest lecture on "High Entropy Alloys" at Bapatla Engineering College, Final year Mechanical Engineering students on 15 July, 2022.
- ✦ S.Radhika, delivered a talk on "Entrepreneurial Competencies - Tribute to teamwork" in the Women Professional Meet up - 2022- Face Challenges of Future Technologies, the IEEE Hyderabad Section & Guntur subsection on 23 Dec. 2022.

Guest lectures Organized

- ✦ Dr. P. S. Rama Srikanth, Dean, M.E., V.I.T., Amaravathi delivered a guest lecture on 'Advances in modern machining processes' to the students on 18 July, 2022.
- ✦ Sree Raj Degala, Automation & Robotics Project Manager, HCL Technologies, Bangalore delivered a lecture on 'Industrial Automation & Robotics' to all the second year B.tech and MCA students on 8 Sep. 2022.
- ✦ Sri.P.Rama Krishna, Sri.D.G.M.Liasoning, Sri.P.RaviSankar - Deputy Manager, Environmental Health and Safety, Jindal Urban Waste Management, Guntur Ltd. delivered a lecture on 'Solid Waste Management & Waste to Energy' for all the II/IV B.Tech students on 12 Sep. 2022.

FDP Organized

- ✦ S.Radhika, 12 module Online Investor Awareness Program, 'Financial Literacy for You' (FLY), sponsored by the National Institute of Securities Markets, and Securities and Exchange Board of India, Government of India, New Delhi, 7 Oct.2021 - 7 July, 2022.

RVRJCCE received best engineering college award in ISTE AP section annual awards organized by Aditya Institute of Technology and Management, 9-10 Dec 2022.

Paper Presentations in Conferences / Seminars / Technical Meets

- ✦ Engineers day celebrations were conducted on different events like Poster Presentation, Paper

Presentation, Technical Working models for Department of Mechanical Engineering. Many students participated in the events on 15 Sep. 2022.

Student Activities/Chapters

- ✦ A team of 25 students won third prize in the Go-kart Design Challenge competitions organized by GKDC-2022, Bangalore, GKDC ISNEE Motorsports, 22-26 Aug. 2022.
- ✦ A team of 20 students from Mechanical, Electrical, Electrical and Electronics Engineering departments took part in the Electric Bike Design Challenge, Sri Ramakrishna Institute of Technology, Coimbatore in collaboration with Mechatron Motors, 26-29

Sep.2022.The team won Overall Static winner with a cash prize of Rs.10,000/-, Best Innovation and Fair play award.

Conferences/Workshops/Webinars Attended

- ✦ K.Bala Prasad, V.Tarachand, Md.Hasheer, D.Kondalarao, one Week Online FDP, "Advancements in Thermal and Renewable Energy Technologies" Department of Mechanical Engineering, LBRCE, 04- 09 , July, 2022.
- ✦ K.Bala Prasad, B.Ramgopal Reddy, K.Praveen Kumar, V.Ramakoteswara Rao, C.Tarasasanka, R.Sreenivasulu, M.Vijaya, K.L.Chaitanya, Md.Hasheer, D.Kondala rao, A.Muddu, Securities and Exchange Board of India & National Institute of Securities Markets sponsored - Online Investor Awareness Program, Financial Literacy for You (FLY),RVRJCCE, 7 Oct. 2021 to 7 July, 2022.
- ✦ G.Chaitanya, one week FDP, AICTE Amazon Web services, Balaji Institute Of Technology and Science In Collaboration with Brain vision Solutions India Pvt. Ltd during 22-27, Aug, 2022.
- ✦ G.Chaitanya, C.Tarasasanka, R.Sreenivasulu, "Intellectual Property Awareness program" under National Intellectual Property Awareness mission, jointly organized by Intellectual Property Office and MOE's Innovation Cell, India, Aug, 11, 2022.
- ✦ C.Tarasasanka, a Three Day National level online workshop "Outcome based Education and Examination Reforms", IQAC, BEC, 03 - 5 Aug. 2022.
- ✦ A.Muddu, online training program "National Intellectual Property Awareness Mission" by Cell, India, 11 Aug, 2022.
- ✦ C.Tara Sasanka, A.Muddu, one week online FDP "Current Trends and Research in Civil Engineering" Maturi Venkata Subba Rao Engineering College (A), Hyderabad, 26-30 Sep, 2022.
- ✦ K.Bala Prasad, C.Tara Sasanka, Md.Hasheer, T.N.S.RamaKrishna, A.Muddu, one week online FDP "Thermal Science and Materials Engineering", Srinivasa Ramanujan Institute of Technology (A), Ananthapuramu 7-11 Nov, 2022.
- ✦ K.Bala Prasad, P.Suresh Kumar, V.Tarachand, Md.Hasheer, D.Kondala Rao, K.Hari Prasad, T.N.S.RamaKrishna, one week FDP, 'Hybrid Electric Vehicles', Departments of Mechanical Engineering, GMRIT, Rajam and VRSEC, Vijayawada, 21-25 Nov. 2022.
- ✦ D.Swapna, Ch.Devaraj, FDP, "21st Century Skills and Teaching Methodologies", APSCHE, A.P. in association with Commonwealth Educational Media Centre for Asia and Andhra Loyola College (A), Vijayawada, 19-22 Dec. 2022.

✦ K.L.Chaitanya, M.Vijaya, one day program, "Women Professional Meet up-2022", IEEE Hyderabad section and Guntur section with RVRJCCE, 23, Dec.2022.

✦ K.Bala Prasad, B.Ramgopal Reddy, P.Suresh Kumar, R.Sreenivasulu, M.Vijaya, K.L.Chaitanya, Sneha.H.Dhoria, One week online FDP, 'Innovations in Mechanical Engineering', Department of Mechanical Engineering, VVIT, 26-30, Dec.2022.

Ph.D Awarded Under Faculty Guidance

✦ Under the guidance of Professor Kolla Srinivas, RVRJCCE, two Ph.D's were awarded

1) Mr. D.Kondala Rao, by ANU, in July, 2022. The title of the thesis was 'Dominant features identification of tool wear monitoring in hard turning by using acoustic emission and vibration techniques'.

2) Mr. J. Leela Krishna, ANU in December 2022. The title of the thesis was 'Fabrication, Characterization and Optimization of Machining parameters on BF slag particulates reinforced composites using Multi criteria decision making methods'.

✦ Under the guidance of Professor V.Chittaranjan Das, RVRJCCE, one Ph.D was awarded to Ms.M.Anuradha, by ANU in Aug, 29, 2022. The title of the thesis was 'Experimental Investigation on Mechanical and Metallurgical Properties of TIG Welds between Inconel718 and AISI4140'.

✦ Under the guidance of Professor B.Ramgopal Reddy, RVRJCCE, one Ph.D was awarded to Ms.Supraja Reddi Bomma Reddi, by ANU in Oct, 2022. The title of the thesis was 'Influence of Process Parameters and Tool on Mechanical and Metallurgical Properties of Pure Copper and Aluminium Alloy AA7075 Dissimilar Friction Stir Welded Joints'.

PhD Awarded

✦ Ms.D.Swapna, by Andhra University in September 2022 under the guidance of Professor Ch.Srinivas Rao. The title of the thesis was 'Investigation on Flow Forming Behaviour of Deep Drawing- Aluminium Alloy under Non-Isothermal conditions'.

Industrial Tour Visits

✦ The Mechanical Engineering Department organized a short industrial visit for II/IV B.Tech (A, B, C Section) students to Sangam Dairy- Vadlamudi, Lakshmi Ganapathi Industries- Tenali during 6-9 July, 2022.

✦ The Mechanical Engineering Department organized a short industrial visit for II/IV B.Tech (A, B Sections) students to Kumar Pumps and Jindal

Urban waste Management, Guntur during 28-29, Dec.2022.



Faculty Promotions

✦ K.Balaprasad promoted as Professor on 30, July,2022.

✦ C.TaraSasanka, R.Sreenivasulu, V.Tarachand were promoted as Associate Professors in the Department of Mechanical Engineering on 30, July,2022.

Faculty Recruitment



P.Suresh Kumar, Associate Professor in Department of Mechanical Engineering, 4, Nov. 2022.

Science is
about knowing;
engineering is
about doing.

HENRY PETROSKI

EVERYDAYPOWER