RESUME

Name :Dr. B.CHANDRA MOHANA REDDY

Father's Name : Sri. B.Krishna Reddy

Date of Birth : 01-08-1968

Marital Status : Married

Nationality : Indian-Hindu

Educational Qualifications:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Course of Study | Year of Passing | Board/University | % | Div. |
| S.S.C | April 1985 | Board of Secondary Education, A.P. | 67.3 | First |
| Intermediate | March 1987 | Board of Intermediate, A.P. | 68.7 | First |
| B.Tech(Mech) | May 1992 | S.V. University, Tirupati, A.P. | 61.5 | First |
| ME  (Production) | July 2002 | Osmania University,  Hyderabad, A.P. | 81.5 | Dist. |
| Ph.D.  (Mechanical Engineering) | May-2009 | J.N.T. University,  Hyderabad, A.P. |  |  |

Permanent Address : S/o.B.Krishna Reddy

Thanakantivaripalli

Krishnapuram(Post)

Darmavaram(Mandal)

Anantapur(Dist)-515 159

Present Address : Dr. B. Chandra Mohana Reddy

Asst. Professor,

Department of Mechanical Engineering,

J.N.T.U. College of Engineering,

Anantapur – 515002,

E mail: [cmr\_b@yahoo.com.](mailto:nadamuni_reddy@rediffmail.com)

Cell : 9490738404

9000844305

**Experience:**

1. Working as an Associate Professor for 3 years 6 months (8th Nov. 2018 to till date) in Department of mechanical engineering, JNTUCE, Anantapur.
2. Worked as an Assistant Professor for 12 years (8th Nov. 2006 to 8th Nov. 2018) in Department of mechanical engineering, JNTUCE, Anantapur
3. Worked as an Academic Assistant for 5 years 3 Months(7th June 2001 to 8th Nov. 2006) in Department of mechanical engineering, JNTUCE, Anantapur.
4. Worked for 4 years and 2 months (1st April 1997 to 30th May 2001) as a Production Engineer in "S.V.Heat Engineering", Hyderabad.
5. Before this I Worked for 3 years and 3 months (10th January 1994 to 31st March 1997) as a Production and Maintenance Engineer in "Kreems Spun Silk Ltd.", Bangalore.

**Additional Duties**:

1. Working as a NSS Co-ordinator from 24-06-2021 to till date in JNTUA, Anathapuramu
2. Worked as a Head of mechanical engineering department for 3 years 3 months in JNTUACE, Ananthapuramu
3. Worked as a Head of mechanical engineering department(i/c) for one year in JNTUACE, Kalikiri, Chitoor (Dist.)
4. Worked as a Officer incharge of academic section for one year in JNTUACE, Kalikiri, Chitoor (Dist.)
5. Worked as a Officer incharge of MBA for 2 years 6 months in JNTUA, Ananthapuramu
6. Worked as a Officer incharge of workshop & Transport for 3 years 6 months in JNTUACE, Anantapur.
7. Worked as a Student union Coordinator for 5 year 5 months in JNTUACE, Anantapur.
8. Worked as a Deputy Warden for 5 years in JNTUACE, Anantapur.

**Workshops Conducted**:

1. Co-coordinator for One Day Academic Exchange Programme on “Awareness On EDP for Managements & Principals of Institutions of JNT University, Anantapur. (AEDP - 2009)”.
2. Coordinator for a One Day Academic Exchange Programme on Formal and Web Based Methodologies for Effective research i.e. FAWMER-2009.
3. Convener for A National level Students Technical Symposium (M-Blitz 2K17) conducted by Department of mechanical engineering, JNTUA College of engineering, Kalikiri, Chittor (Dist, From 20th Jan to 21st Jan 2017.

**Orientation / Refresher Course Attended**

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| --- | --- | --- | --- |
| Name of the Course | Place | Duration | Sponsoring Agency |
| 81st Orientation Course | UGC-Academic Staff College, University of Hyderabad, Hyderabad | Four weeks  17-4-2013 to 14-5-2013 | UGC Sponsored Orientation Course |
| Material Science(Mechanical Engineering) | UGC-Academic Staff College, University of Mysore, Mysore | Three Weeks  28-10-2014 & 17-11-2014 | UGC Sponsored Refresher Course |
| Faculty development programme on Computational methods for flow and heat transfer analysis-Applications of CFD Tools | Department of Mechanical Engineering, JNTUACEA. A.P. | Two Week  10-3-2014 to 23 –3-2014 | AICTE Sponsored, New Delhi |
| Six day training Programme in Engineering Drawing | Department of Mechanical Engineering JNTUACEA, A.P. | 19th t0 24th December -2011 | APSCHE in association with JNTUA |

**Workshops/conferences Addended:**

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| S.No | Name of the workshop / Conference | Place | Duration | Sponsoring Agency |
| 1. | Workshop on Building and Flying Micro Air Vehicles 28Th and 29Th Jan 2011 | JNTUA, Anantapur | Two days | Self financed |
| 2 | One day academic exchange programme on Trends in mechanical engineering research (TIMER-2009) | Department of Mechanical Engineering, JNTUACEA, Anantapur | One day | TEQIP |
| 3. | A international conference & XX National Conference on I.C.Engines and combustion, December 6-8,2007 | JNTUH, Hyderabad | Three days | Self financed |
| 4. | A national conference on computer applications in mechanical Engineering, 21st 2005 | Department of Mechanical Engineering, JNTUACEA, Anantapur | One day | TEQIP |
| 5. | A two day national workshop on Mechatronics 7th and 8th Dec 2003 | Intell Engineering college, Anantapur | Two days | Self financed |
| 6. | A two day workshop on Trends in CNC Machining(TCNCM-05), 19th and 20th August 2005 | Department of Mechanical Engineering, JNTUACEA, Anantapur | Two days | CADEM, Bangalore |
| 7. | A three day workshop on computational fluid dynamics through Star –CD, 7th feb. and 1st march | Department of Mechanical Engineering, JNTUACEA, Anantapur | Three days | CADEM, Bangalore |

**Membership in Professional Societies:**

1. Life Member of Indian Society of Technical Education

(I S T E) - Membership No: LM75733

2. Life Member of Institute of engineers (MIE) India -

Membership No:M-143513-7

**Awards Received**:

1. Global Eminent Teacher Award in 28th May 2021 by VIJ Trust, Thamilnadu
2. Award of excellence in research in 20th December 2018 by DK International Research Foundation (DKIRF), recognized by Government of India( ISO 9001:2015 Certified)

**Projects Guided:**

1. B.Tech projects guided : 20
2. M.Tech projects guided : 50
3. Ph.D Guided : 07 + 2 Submitted

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| S.No. | Name of the Degree Awarded | Status | | Year of Awarded /  submitted | Title of the Thesis Supervised | Name of the Awardee | Supervisor / Co-Supervisor |
| Degree awarded | Thesis submitted |
|  | Ph.D | Awarded | -- | 2017 | Evaluation of the Bullwhip effect of supply chain under uncertainty environment by using simulation techniques | K. Ramesh Reddy (Reg.No.0900PH0326) | Co-Supervisor |
|  | Ph.D | Awarded | -- | 2017 | Analysis of smart composite laminated plates using higher order theories | P. Veera Sanjeeva Kumar  (Reg. No.:12PH0302) | Supervisor |
|  | Ph.D | Awarded | -- | 2019 | Biogenic synthesis and characterization of copper biocidal tool, its applications and alloys | N. Anantha Krishna  (14PH0324) | Co-Supervisor |
| 1. 2 | Ph.D | Awarded | -- | 2019 | Characterization and drilling of hardwickia binata(narepa) fiber reinforced epoxy composites | Smt. K.Sudha Madhuri (13PH0321) | Co-Supervisor |
|  | Ph.D | Awarded | -- | 2019 | Optimization of process parameters in wire-electrical discharge machining of suferni-718 by using TOPSIS with SVNS | Y.Rameswara Reddy  (12PH0303) | Supervisor |
|  | Ph.D | Awarded | -- | 2020 | Studies on the properties of polymer blend hybrid nano composites. | B.MadusudanReddy  (14PH0328) | Co-Supervisor |
|  | Ph.D | Awarded | -- | 2021 | Characterization of transient behavior of hybrid Nano composite marine propeller under various soaking conditions and soaking media | D.Harsha Vardhan  (15PH0318) | Co-Supervisor |
|  | Ph.D | -- | Submitted | 2021 | Characterization of used jute fiber mat reinforced polymer composite with graphite, Wollastonite and silicon carbide as fillers | K.Manohar Reddy  (15PH0308) | Supervisor |
|  | Ph.D | -- | Submitted | 2021 | Controlling the position of arm using image processing technique with minimum distance approach for pick and place operation | Pramod Kumar Thotapalli  (15PH0304) | Co-Supervisor |

**Research Projects:**

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| --- | --- | --- | --- | --- | --- |
| Sl. No | Title | Agency | Period | Grant / Amount Mobilized (Rs. Lakh) | Status |
| 1 | Studies on Development of an Integrated Approach for Modeling the Annular Combustors of aero Gas Turbines | Aeronautics DRDO R&D board | 2 years | 17.97/- | Completed |
| 2 | Ultrasonic impact treatment of Ti6A14V welds of gas turbine modules for fatigue life enhancement | Aeronautics DRDO R&D board | 3 Years | 18.578/- | initiated |

**Papers Published:**

**International Journals:**

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| --- | --- | --- | --- | --- | --- |
| S.No | Month and Year | Title of the Paper & details | Name of the Journal | Recognized  by UGC/SCI/ SCI Expand/ others | Impact Factor |
|  | 2007 | Application of fuzzy goal and additive fuzzy goal programming approaches to distributor selection in supply chain. Vol.2,Issue:10,pp.1533-1538. | Journal of engineering and applied sciences, Medwell journals, ANSInet building, Faisalabad, Pakistan,   |  | | --- | | ISSN : 1816-949x (Print) | | ISSN : 1818-7803 (Online) | | --- | -- |
|  | 2008 | Simulation of Surge Effect in Supply Chain for Demand Uncertainty at the End Customer tm,Vol. 3, Number 1, pp. 61–72. | International Journal of Applied Engineering Research, © Research India Publications,  Print ISSN 0973-4562  Online ISSN 0973-9769  http://www.ripublication.com/ijaer.h, | [Scopus Indexed Journal](http://www.iaeme.com/ijmet/IJMET_Scopus.asp)  UGC Approved Journal - 2017 (Journal No. - 64529) | RG Journal Impact: 0.14 |
|  | December 2008 | Quota Allocation to Distributors of the Supply Chain under Distributors’ Uncertainty and Demand Uncertainty by Using Fuzzy Goal Programming, Volume 2, Number 4, pp: 215 -226 | Jordan Journal of Mechanical and Industrial Engineering  ISSN 1995-6665, Jordanian Ministry of Higher Education and Scientific Research in corporation with the Hashemite University | [Emerging Sources Citation Index](http://miar.ub.edu/indizadaen/1995-6665/esci) (ESCI),  [Scopus](http://miar.ub.edu/indizadaen/1995-6665/scopus) | ---- |
|  | 2011 | [Optimization of CI engine parameters using artificial neural](javascript:void(0)), volume 1 (2), pp:76-82 | Int. J. Mech. Ind. Eng | -- | -- |
|  | Jan. - June 2012 | Production Centers Selection Problem for A Manufacturing Firm of Supply Chain under Production Centers’ Uncertainty and Demand Uncertainty by using Fuzzy Goal Programming Approaches, Vol. 2, Issue 1, | International Journal of Research in Mechanical Engineering & Technology, ISSN:2249-5762(Online)  ISSN: 2249-5770 (print)  (www. ijrmet. c o m). | --- | Impact Factor:4.506 |
|  | January 2012 | Thermal Conductivity Measurements of Ethylene Glycol Water Based TiO2 Nanofluids, Volume 4, Number 1, January 2012, pp. 105-109(5) | Nanoscience and Nanotechnology Letters ISSN: 1941-4900 (Print); EISSN: 1941-4919 (Online), American Scientific Publishers. | SCIE/SCI Search,  Web of Science& Thomson Reuters,  Materials Science Citation Index(r) (MSCI) | Impact Factor  2.917 |
|  | 2012 | Optimization of a Multi Item Inventory Problem with Multiple Constraints using Kuhn-tucker Conditions, , Vol. 7, Number 5, pp. 503–513 | International Journal of Applied Engineering Research, © Research India Publications,  Print ISSN 0973-4562  Online ISSN 0973-9769  http://www.ripublication.com/ijaer.h, | [Scopus Indexed Journal](http://www.iaeme.com/ijmet/IJMET_Scopus.asp)  UGC Approved Journal - 2017 (Journal No. - 64529) | RG Journal Impact: 0.14 |
|  | 2012 | Temperature Dependence of Thermal Conductivity of Water Based TiO2 Nanofluids, , Volume 3, Number 1+2, pp. 43 – 52, 2012. | International Journal of Micro-Nano Scale Transport, Multi-Science Publishing (ISSN 1759-3093) | --- | Impact factor 0.5. |
|  | June-July 2014 | Performance Analysis of Multi-Cylinder C.I. Engine by using Various Alternate Fules, Volume 2, Issue 4, pp.697–707. | International Journal of Engineering Research and General Science, ISSN 2091-2730, (www.ijergs.org) | Open access | Scientific Journal impact factor: 3.843 |
|  | May-2014 | Performance Evaluation of Vapour Compression Refrigeration System With Three Layer Zig-Zag Shaped Evaporator, , Volume 5, Issue 5, pp.929–934 | International Journal of Scientific & Engineering Research, [ISSN: 2229-5518](https://www.ijser.org/), (http://www.ijser.org), | --- | Impact factor : 4.4 |
|  | April 2015 | Fabrication and characterization of Polymer laminate composites reinforced with bi-woven carbon fibers, Volume. 5, Issue 4, ( Part -7), pp.11-17, | Int. Journal of Engineering Research and Applications (www.ijera.com), ISSN : 2248-9622, | Open Access Journal | Impact Factor in 2017 = 5.179 |
|  | 2015 | A review on classical Shape Memory Alloys, Photon -121, pp. 199-213. | The Journal of Materials Science, Review. ISJN: 6259-3864, | -- | Impact Index: 5.35 |
|  | August 2015 | Studies on quantification and reduction of bullwhip effect in supply chain management, Volume 3, Issue 8, | International Journal on Recent researches in Science and Technology(IJRRSET)  ISSN Print: 2347-6729 ISSN Online: 2348-3105 | UGC Approved Journal No. 45483,   ISO 9001:2015 certified  Indexed in Thomson Reuters | SJIF - 4.334 Jour Informatics - 2.54 DIIF - 1.46 |
|  | July 2015. | Performance and Emission Characteristics of Poppy Seed Oil Diesel Blends on Single Cylinder Four Stroke Diesel Engine volume 4, issue 7, pp. 391-393, | International Journal of Science and Research (IJSR, ISSN (Online): 2319-7064, | Index Copernicus Value (2013): 6.14 | | Impact Factor (2013): 4.438, |
|  | May-June, 2016 | Mechanical Properties of Glass, Bamboo and Sisal with Reinforced Epoxy Composite: An Experiment | International Journal of Engineering & Technology Research | -- | Impact Factor: 4.982 |
|  | September 2016 | Bending Analysis Of Smart Composite Laminate Plates Using Higher Order Theory | Journal of Applied Sciences Research(Open Access Journal), | Open access | -- |
|  | December 2016 | Transient Analysis Of Smart Composite Laminate Plates Using Higher Order Theory | International Journal Of Mechanical Engineering And Technology | Open access, [Scopus Indexed Journal](http://www.iaeme.com/ijmet/IJMET_Scopus.asp) | Impact Factor 9.2286 (Calculated By Gisi). |
|  | July 2016 | Evaluating The Bullwhip Effect Of Supply Chain Under Uncertainty Environment By Using Simulation Techniques | International Journal Of Science, Engineering And Technology Research | -- | -- |
|  | January 2016 | Influence of forecasting factors and methods or Bullwip Effect and order rate variance ratio in the two stage supply chain – a case study (O) 2454-4698 (P), Volume-4, Issue-1, | International Journal Of Engineering and Technology Research,  ISSN: 2321-0869(o)  ISSN:2454-4698(p) | -- | Impact Factor :[2.19](https://scholar.google.co.in/scholar?hl=en&q=erpublication.org&btnG=" \t "_blank) |
|  | January 2016. | Improvement of Chemical Resistance Of Jute, Glass,Epoxy Hybrid Composites | International Journal of scientific research and management | -- | 3.994 (Thomson Reuters) |
|  | November 2016 | CFD Simulation of Heat Transfer and Air Flow in Solar Air Heater | International Journal of Innovative Research in Science, Engineering and Technology, | Open access, ISO 3297: 2007 Certified | Impact factor=7.089 |
|  | November 2016. | CFD Analysis of Flow and Heat Transfer in Solar Air Heater Duct by using V-Shaped Inclined Continuous Ribs on Absorber Plate | International Journal of Engineering Research & Technology | Open access | Impact factor=5.179 |
|  | January 2016 | Mechanical and Chemical Properties of Bamboo/Glass Fibers Reinforced Polyester Composites, Vol. 6, Issue 1, (Part - 3), pp.128-132. | Int. Journal of Engineering Research and Applications ISSN: 2248-9622,  www.ijera.com | UGC Approved Journal  Open access | Impact factor=5.179 |
|  | February 2017 | Vibration analysis of smart composite laminate plates using higher order theory | International Journal of Mechanical And Production Engineering | -- | Cosmos Impact Factor-4.022 |
|  | May 2017 | Formulation and evaluation of nano copper gel for treatment of clinical mastitis | Journal of pharmacy research | Approved by UGC (Scopus Indexed 14 no.) | 0.575 |
|  | April 2017 | An experimental investigation on tensile properties and energy absorption capabilities of hybrid nano metal matrix (al 6061+b4c+sic)  composites | International journal of advances in engineering & technology | -- | Impact Factor: 3.43 |
|  | December 2017 | A Review on Optimization of Cutting Parameters  in Machining Using Predictive Models | International Journal for Research in Applied Science & Engineering Technology | UGC Approved Journal | SJ Impact Factor6.887 |
|  | November 2017 | Bifurcation Buckling of a Corrugated Jet Pipe Liner for an Aero-Engine Afterburner | International Journal Of Engineering Science And Technology | -- | -- |
|  | September 2017 | Evaluation of Mechanical Properties of Cordia  Dichotoma Based Natural Fibre/Epoxy Composite | International Journal of Engineering Research in Mechanical and Civil Engineering | Open access | 3.8  (Thomson Reuters) |
|  | November 2017 | Reverse engineering ancient cu based drugs, their synthesizing methods and evolution using Vedic mind tools | Drug Invention Today | Approved by UGC | -- |
|  | 2017 | Mechanical properties of burmese silk orchid fiber reinforced epoxy composites, Proceeding 4, pp 3116–3121 , | 5th International Conference on Materials Processing and Characterization,  Materials Today: Proceedings, Science Direct (Elsevier), Available online at www.sciencedirect.com | SCI,  Approved by UGC (  J.No 49021) | RG Journal impact history=0.71 |
|  | 2017 | A Critical review on ancient alchemical metal treatment procedures in rasagrandhas and brhadvimanika Shasta, Proceeding 4, pp 8345-8354 | International Conference on advancements in aeromechanical materials for manufacturing (ICAAMM-2016), Materials Today: Proceedings ,Science Direct (Elsevier), Available online at www.sciencedirect.com | SCI  Approved by UGC (  J.No 49021) | RG Journal impact history=0.71 |
|  | 2017 | Effect of Fiber Orientation and Loading on the Tensile Properties of Hardwickia Binata Fiber Reinforced Epoxy Composites, Volume 117, No. 10 , 57-61 | International Journal of Pure and Applied Mathematics,  ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: http://www.ijpam.eu | SCOPUS | Impact Factor; 7.19 |
|  | 2017 | Enhancement of Heat Transfer in Solar Air Heater with Parallelogrm Protrusions as Roughness Elements | International Journal for Research in Applied Science & Engineering Technology,Available at www.ijraset.com | Open access, UGC Approved Journal till May 2018 | Scientific Journal Impact Factor: [7.429](https://www.ijraset.com/img/img_factors/SJIF-2020.jpeg) |
|  | 2018 | Mechanical, morphological, and thermogravimetric analysis of alkali-treated Cordia-Dichotoma natural fiber composites | Journal of Natural Fibers (Taylor & Francis Inc) | Indexed: SCI, Elsevier  Open access  Approved by UGC (  J.No:  24766), | Impact Factor  1.076 (Thomson Reuters) |
|  | 2018 | Experimental investigation and multi objective optimization for wire EDM using TOPSIS and SVNS mecthod | Journal of Advanced Research in Dynamical and Control Systems | Open Access  Approved by UGC (  J.No:  26301)  Elsevier Scopus indexing 2018 | -- |
|  | 2018 | Optimization of WEDM Parameters for SUPER Ni-718 Using GRA with Neutrosophic Sets | International Journal of Applied Engineering Research | Approved by UGC (  J.No:  64529) SCOPUS(2010-2017) | RG Journal Impact: 0.14 |
|  | June 2018 | Experimental investigations on MRR, Surface Roughness and Dimensional Deviation of SuperNI-718 alloy steel in Wire-EDM using Taguchi Method | International Journal for Research in Engineering Application & Management (IJREAM) | Approved by UGC (  J.No:  64529)  Indexed: Thomson Reuters | IJREAM Impact Factor:5.646 |
|  | 2018 | Effect of Alkali Treatment on Mechanical, Water Absorption and Chemical Resistance Properties of Cordia-Dichotoma Fiber Reinforced Epoxy Composites | International Journal of Applied Engineering Research | Approved by UGC (  J.No:  64529) SCOPUS(2010-2017) | RG Journal Impact: 0.14 |
|  | 2018 | Solar air heater duct having triangular protrusions  As roughness elements on absorber plate | International Journal of Scientific Research and Review | Approved by UGC (  J.No:  64650  ) ISO 7021 : 2008 Certified Journal,  Elsevier Mendely | Scientific Journal Impact Factor - 6.1 |
|  | March 2018 | Synthesis and Characterization of Jute Reinforced Composites with Wollastonite Filler | International Journal for Research in Applied Science & Engineering Technology (IJRASET) | --- | SJ Impact Factor: 6.887 |
|  | August-2018 | Fabrication and experimental analysis of solar based thermo electric cooling system | International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) | -- | Impact Factor: 5.22 (SJIF-2017), |
|  | September 2018 | Experimental analysis of cop in domestic refrigerator by using phase change materials | Journal of Emerging Technologies and Innovative Research | Open Access Journal & approved by UGC | Impact Factor: 5.87 |
|  | February 2018 | A case study of reverse engineering integrated in an ancient Indian alchemical alloying W.S.R to AU-CU-ZN Alloy using part whole Schema | International journal of Mechanical and Production Engineering and development ( Trans stellar) | Approved by UGC , [Scopus Indexed Journal(IJMPERD)](https://www.scopus.com/sources?sortField=metric&metricName=RP&sortDirection=ASC&offset=1&displayAll=false&sortPerformedState=f&origin=sourceSearch&sortDirectionMOne=ASC&sortDirectionMTwo=&sortDirectionMThree=&metricDisplayIndex=1&scint=1&menu=search&tablin=&searchWithinResultsDefault=t&searchString=&searchOA=&typeFilter=d_j_p_k&subscriptionFilter=s_u&filterActTriggered=f&tabName=searchSources&searchTerms=TJPRC&searchTermsSubmit=&searchType=publisher) | Impact Factor (JCC):  [7.6197](http://www.journal-metrics.com/impact_factors.php) |
|  | March 2018 | Enhancement of Heat Transfer in Solar Air Heater Duct having Different Pitch of Triangular Protrusions as Roughness Elements on Absorber Plate | Indian Journal of Science and Technology | **Open access** Indexed in: ISI, Thomson Reuters (Web of Science) | IC Impact Factor : 5.07 |
|  | March 2018 | Enhancement of Heat Transfer in Solar Air  Heater with Parallelogrm Protrusions as  Roughness Elements | International Journal for Research in Applied Science & Engineering Technology | Approved by UGC | SJ Impact Factor: 6.887 |
|  | Apr 2018 | Impact strength, water absorption and chemical  Resistance of untreated and treated cordia  Dichotoma fiber/polyester composite | International Journal of Mechanical and Production  Engineering Research and Development (IJMPERD) ( Trans stellar) | Approved by UGC  [Scopus Indexed Journal(IJMPERD)](https://www.scopus.com/sources?sortField=metric&metricName=RP&sortDirection=ASC&offset=1&displayAll=false&sortPerformedState=f&origin=sourceSearch&sortDirectionMOne=ASC&sortDirectionMTwo=&sortDirectionMThree=&metricDisplayIndex=1&scint=1&menu=search&tablin=&searchWithinResultsDefault=t&searchString=&searchOA=&typeFilter=d_j_p_k&subscriptionFilter=s_u&filterActTriggered=f&tabName=searchSources&searchTerms=TJPRC&searchTermsSubmit=&searchType=publisher) | Impact Factor (JCC):  [7.6197](http://www.journal-metrics.com/impact_factors.php) |
|  | July-2018 | Automobile Brake Failure Indicator, Volume 4, Issue 7, pp: 322-326. | International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), e-ISSN: 2455-2585 | **Open access**  ISO 9001: 2008 Certified | Impact Factor: 5.585 (SJIF) |
|  | November 2018 | Design and Fabrication of Cart with Crank-  Based Walking Mechanism,  Vol. 7, Issue 11, pp: 11211- 11218 | International Journal of Innovative Research in Science,  Engineering and Technology ISSN(Online): 2319-8753  ISSN (Print): 2347-6710,www.ijirset.com | --- | Impact Factor : 7.089 |
|  | 2018 | Experimental investigation on the mechanical properties of Hardwickia Binata fibre reinforced polymer composites, [Volume 5, Issue 9, Part 3](https://www.sciencedirect.com/science/journal/22147853/5/9/part/P3),  pp  ;19899-19907 | Materials Today: Proceedings ,Science Direct (Elsevier), Available online at www.sciencedirect.com | SCI  Approved by UGC (  J.No 49021) | RG Journal impact history=0.71 |
|  | 2018 | Processing of Magnesium Metal Matrix Composite Reinforced with Graphene Nanoplatelets through Vacuum Stir Casting and Investigating its Mechanical Behaviour, Volume 5(3) pp: 21–29 | Journal of Thin Films, Coating Science Technology and Application,  eISSN: 2455-3344 | Open Access  Indexed in Google Scholar | -- |
|  | December 2018 | Specific power reduction in vertical roller coal mill by using cause & effect analysis,  Volume 5, Issue 4, pp:533-540 | International Journal of Research and Analytical Reviews,  E-ISSN 2348-1269, P- ISSN 2349-5138,  www.ijrar.org | [An UGC-CARE Approved Group - II Journal ( Scopus Indexed Till 2005)](https://www.scopus.com/sources?sortField=citescore&sortDirection=desc&isHiddenField=false&field=issn&issn=08983577&_openAccess=on&_countCheck=on&count=0&countField=documentsMin&_bestPercentile=on&_quartile=on&_quartile=on&_quartile=on&_quartile=on&_type=on&_type=on&_type=on&_type=on&year=2018&offset=&resultsPerPage=20) | Scientific Journal Impact Factor - 6.1 |
|  | August-2018 | Fabrication and experimental analysis of solar based thermo electric cooling system, Volume 4, Issue 8, Pp:155-161 | International Journal of Technical Innovation In Modern Engineering & Science, E-ISSN: 2455-2585 | Open Access  ISO-9001-2008 certified | Impact Factor: 5.22 |
|  | Feb 2018 | Chemical and water absorption behaviour of hardwickia binata fiber reinforced composites, Vol. 8, Issue 1,pp: 471-478 | International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001, TJPRC Pvt. Ltd., Trans stellar publications | Approved by UGC  [Scopus Indexed Journal(IJMPERD)](https://www.scopus.com/sources?sortField=metric&metricName=RP&sortDirection=ASC&offset=1&displayAll=false&sortPerformedState=f&origin=sourceSearch&sortDirectionMOne=ASC&sortDirectionMTwo=&sortDirectionMThree=&metricDisplayIndex=1&scint=1&menu=search&tablin=&searchWithinResultsDefault=t&searchString=&searchOA=&typeFilter=d_j_p_k&subscriptionFilter=s_u&filterActTriggered=f&tabName=searchSources&searchTerms=TJPRC&searchTermsSubmit=&searchType=publisher) | Impact Factor (JCC):  [7.6197](http://www.journal-metrics.com/impact_factors.php) |
|  | 2018 | Effect of Temperature on Tensile Properties of Aa6061-ALNP Composite, Vol. 10, Issue 10,pp: 01-06 | Journal of advanced research in dynamical and control systems, ISSN: 1943-023X | \_\_\_ | Scopus SJR 2019=0.19 |
|  | 2018 | Characterization of New Cellulosic Fiber from the bark of Hardwickia Binata (Narepa), Volume 13, Number 2, pp. 967-972 | International Journal of Applied Engineering Research,  Print ISSN 0973-4562  Online ISSN 0973-9769  Research India Publications. http://www.ripublication.com | SCOPUS(2010-2017),  UGC Approved Journal - 2017 (Journal No. - 64529) | RG Journal Impact: 0.14 |
|  | October 2019 | Performance Evaluation of Shell-and-Tube Heat Exchanger with 3-Fluid Sets using CFD and NTU, Volume-9, Issue-1, pp:1416-1420 | International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958. (Blue Eyes Intelligence Engineering & Sciences Publication) | Scopus Indexed( Elsevier ) | Impact Factor : 5.97 |
|  | June 2019 | Tribological & Mechanical Characterization Of Al-6061 Hybrid Metal Matrix Composite With SiC & Graphite As An Reinforcement, Volume 6, Issue 6, pp: 624-633 | Journal of Emerging Technologies and Innovative Research (JETIR) ,ISSN-2349-5162,  www.jetir.org | **Open access,**  UGC Approved (Journal No: 63975) | Impact Factor: 5.87 |
|  | 2019 | A Review On Materials Used For Marine Propellers, Proceeding 18, 4482–4490 | ICMPC\_2019, Materials Today: Proceedings, Science Direct (Elsevier), Available online at www.sciencedirect.com | SCI  Approved by UGC (  J.No 49021) | RG Journal impact history=0.71 |
|  | June 2019 | Experimental investigation on vapour compression  Refrigeration system with phase change material including diffuser and nano particles, Volume 6, Issue 2, pp; 439-444 | International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138,  www.ijrar.org | Open Access, UGC Approved Journal NO: 43602 | Google Scholar h-index impact factor of 2018: 5.75 |
|  | June 2019 | Improvement of Plant Layout using Systematic Layout Planning (SLP) in Idler Manufacturing Industry, Volume 09 Issue 06, pp: 295-305 | International Journal of Research in Engineering, IT and Social Sciences, ISSN 2250-0588,  http://indusedu.org | [UGC approved Journal No. 42301](https://www.ugc.ac.in/journallist/subjectwisejurnallist.aspx?tid=MjI1MDA1ODg=&&did=U2VhcmNoIGJ5IElTU04=) | Impact Factor: 6.565(SJIF) |
|  | July 2019 | Experimental investigation on performance of diesel engine on mixing of two biodiesels blended with diesel,  Volume: 06 Issue: 07, pp: 2846- 2852 | International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, p-ISSN: 2395-0072,  www.irjet.net | Open Access, UGC Approved (UGC 45170)ISO 9001:2008 Certified Journal | Impact Factor value: 7.211 |
|  | June 2019 | Optimization of Turning Parameters on 45C8 Steel Cylindrical Rods Using Grey- Taguchi Methodology, Volume-9, Issue-6,pp: 314-324 | International Journal of Research in Engineering, IT and Social Sciences, ISSN 2250-0588,  http://indusedu.org | [UGC approved Journal No. 42301](https://www.ugc.ac.in/journallist/subjectwisejurnallist.aspx?tid=MjI1MDA1ODg=&&did=U2VhcmNoIGJ5IElTU04=) | Impact Factor: 6.565(SJIF) |
|  | June 2019 | Six Sigma-DMAIC Approach for Improving Quality of Sinter at Sinter plant, Volume 09 Issue 06, pp: 325-346 | International Journal of Research in Engineering, IT and Social Sciences, ISSN 2250-0588, http://indusedu.org | [UGC approved Journal No. 42301](https://www.ugc.ac.in/journallist/subjectwisejurnallist.aspx?tid=MjI1MDA1ODg=&&did=U2VhcmNoIGJ5IElTU04=) | Impact Factor: 6.565(SJIF) |
|  | August 2019 | Fabrication and Performance Evaluation of the Solar Parabolic Dish Collector with Pin Fin Absorber, Volume XI, Issue VIII,PP:962-973 | The International journal of analytical and experimental modal analysis. ISSN NO: 0886-9367 | Open Access,  [An UGC-CARE Approved Group - II Journal list -Serial No. 36272](https://www.scopus.com/sources?sortField=citescore&sortDirection=desc&isHiddenField=false&field=issn&issn=&issn=08869367&_openAccess=on&_countCheck=on&count=0&countField=documentsMin&_bestPercentile=on&_quartile=on&_quartile=on&_quartile=on&_quartile=on&_type=on&_type=on&_type=on&_type=on&year=2018&offset=&resultsPerPage=20" \t "_blank)  [( Scopus Indexed Till 1992)](https://www.scopus.com/sources?sortField=citescore&sortDirection=desc&isHiddenField=false&field=issn&issn=&issn=08869367&_openAccess=on&_countCheck=on&count=0&countField=documentsMin&_bestPercentile=on&_quartile=on&_quartile=on&_quartile=on&_quartile=on&_type=on&_type=on&_type=on&_type=on&year=2018&offset=&resultsPerPage=20" \t "_blank) | Scientific Journal Impact Factor - 6.3 |
|  | June 2019 | Optimal design of spur gear by using rapid prototyping and reverse engineering | International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138,  www.ijrar.org | Open Access, UGC Approved Journal NO: 43602 | Google Scholar h-index impact factor of 2018: 5.75 |
|  | October-2019 | Statistical Approach for behavior of Cutting Parameters of Turning Operation, Vol. 8 Issue 10, pp:455-459 | International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 http://www.ijert.org | Open Access (Expect to be indexed in SCOPUS & Web of Science (WoS)) | -- |
|  | September 2019 | Tensile Properties of Hardwickia Binata and Banana Fiber Reinforced Hybrid Composites, Special Issue, No.-3, pp 194-201 | J. Mech. Cont.& Math. Sci.,  ISSN PRINT : 0973-8975  ISSN ON LINE : 2454-7190, www.journalimcms.org | ESCI(Emerging Sources Citation Index)  UGC CARE List, Group -II, India, Web of Science | GENERAL IMPACT FACTOR: 2.6243 |
|  | February, 2020 | Mechanical and Metallurgical Characterization of Al/Ceramic MMC, Volume-9, Issue-3 and pp:526-529 | International Journal of Engineering and Advanced Technology (IJEAT) , ISSN: 2249 – 8958, (Blue Eyes Intelligence Engineering & Sciences Publication) | Scopus Indexed( Elsevier ) | Impact Factor : 5.97 |
|  | 2020 | Open Water Characteristics and Free Vibration Analysis of Actual and  Scaled Marine Propeller, Vol. 29, No. 10S, pp. 8262-8273, 2020 | International Journal of Advance Science and Technology,  ISSN: 20 05-4238 IJAST, SERSC Australia. | Scopus Indexed( Elsevier) | SJR 20190.108 |
|  | June 2020 | Fabrication and Study of the Mechanical Properties of  AA7129 Alloy Reinforced with B4C &TiC Volume 4 Issue 4, pp: 1566 -1571 | International Journal of Trend in Scientific Research and Development (IJTSRD), e-ISSN: 2456 – 6470, Available Online: www.ijtsrd.com | Open Access | Impact Factor : 6.005 |
|  | 2020 | Mechanical characterization of chemically treated used jute fiber  reinforced epoxy composite with SIC fillers | Materials Today: Proceedings ,Science Direct (Elsevier), Available online at www.sciencedirect.com | SCI  Approved by UGC (  J.No 49021) | RG Journal impact history=0.71 |
|  | 2020 | The effect of granite powder on mechanical, structural and water absorption characteristics of alkali treated cordia dichotoma fiber reinforced polyester composite, Polymer Testing 91, 106782 | Polymer Testing, Science Direct (Elsevier), ISSN: 0142-9418  journal homepage: http://www.elsevier.com/locate/polytest | SCI (Science Citation Index), Web of Science, Scopus | **Impact Factor:** 3.275 |
|  | 31 Jul 2020. | Study on the Effect of Granite Powder Fillers  in Surface-treated Cordia Dichotoma Fiber-  Reinforced Epoxy Composite | Journal of Natural Fibers (Taylor & Francis Inc) | Indexed: SCI, Elsevier  Open access  Approved by UGC (  J.No:  24766), | Impact Factor  1.076 (Thomson Reuters) |
|  | 2020 | Effect of ceramic fillers on flexural strength of the GFRP composite  material | Materials Today: Proceedings ,Science Direct (Elsevier), Available online at www.sciencedirect.com | SCI  Approved by UGC (  J.No 49021) | RG Journal impact history=0.71 |
|  | 2020 | Feature extraction of moving objects using background subtraction  technique for robotic applications, DOI:https://doi.org/10.1007/s41315-020-00145-0 | International Journal of Intelligent Robotics and Applications,  ISSN 2366-5971 | 1. [Springer](https://www.springer.com/gp/authors-editors/journal-author/journal-author-helpdesk/editorial-policies/14214) 2. UGC-CARE List (India) 3. Emerging Sources Citation Index, SCOPUS, open access | -- |
|  | 2020 | A study on mechanical, structural, morphological, and  thermal properties of raw and alkali treated Cordia  dichotoma-polyester composite,; pp: 1–11., DOI: 10.1002/pc.25826 | Polymer Composites. 2020ISSN: 0272-8397  eISSn: 1548-0569 | 1. SCIE [(Science Citation Index Expanded](http://miar.ub.edu/indizadaen/0272-8397/science_citation_index)), 2. [Scopus](http://miar.ub.edu/indizadaen/0272-8397/scopus), | Impact Factor: 2.265 |

**National Journals:**

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| S.No | Month and Year | Title of the Paper & details | Name of the Journal | Recognized  by UGC/SCI/ SCI Expand/ others | Impact Factor |
|  | 2006 | Simulative comparison of inventory policies used in service oriented distribution centers of supply chains, Special Issue, pp. 15-21 | Industrial Engineering journal, Indian institution of industrial engineering, Navi Mumbia | -- | -- |
|  | March 2019 | Computational Analysis of Heat Transfer Effect on Liquid–Vapor Phase Change and Boiling-Induced Phase Instabilities, volume 101, pp:193–201(2020) | [Journal of The Institution of Engineers (India)](https://link.springer.com/journal/40032)- [Series- C](https://link.springer.com/journal/40032), ISSN: 2250-0545 (Print), 2250-0553 (Online) | 1. **Springer Journal*,*** SCOPUS | -- |

**International Conferences:**

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| S.  No. | Month and Year of Presentation | Title or Topic of Invited Lecture or Presentation | Name of the conference/seminar | International / National / State / University level | Location where the event is organized |
|  | 15th - 17th December-2008. | Suppliers selection problem for the supply chain under Suppliers’ uncertainty and demand uncertainty by using Fuzzy goal programming, pp.106 | International conference on operations research for a growing nation in conjunction with the 41st Annual convention of operational research society of India (ORSI) | International | Tirupati Chapter, S.V. University, Tirupati, A.P., India, |
|  | 19th – 21st December-2003 | Internet Based Condition Monitoring Of Multi-Stations Industrial Machines By Using Vibrational Analysis | International Conference in Engineering and Technology-2003 | International | Kalinga Institute Of Industrial Technology, Bhuvaneswar, Orissa, India |
|  | December 27-30, 2011 | Temperature Dependence of Thermal Conductivity of Water Based Tio2 Nanofluids | Proceedings of the 21st National 10TH ISHMT-ASME Heat and Mass Transfer Conference, | International | IIT Madras, India |
|  | February 4th - 7th,2014 | Structural analysis and experimental validation of exhaust frame of an aero gas turbine engine  , , Indira Gandhi center for atomic research | First international conference on structural integrity, ICONS-2014 | International | Kalpakkam Societ for failure analysis, The Indian Institute of Metals, Kalpakkam Chapter, The Indian Institute of welding, Bangalore |
|  | August 21-23, 2014 | Performance and emission analysis of a diesel engine using tobacco seed oil as alternative fuel, ISBN 978-93-5107-271-3*,* pp.142-151 | International Multi Conference on innovation in Engineering and Technology(International Conference on mechanical Engineering) ICME-2014(ELSEVIER) | International | Bangalore, India |
|  | 2017 | Trace the centriopd object on a conveyor using digital image processing, pp.33-37 | Proceedings of ICMTS | International | IIT Madras |
|  | July 27-29, 2017 | Effect of nano-clay mineral addition on tribological properties on jute/epoxy composite by using design of experiment approach | 10th International Conference on emerging materials and nanotechnology, | International | Vancouver, Canada |
|  | December 07-09,2017 | Feature Extraction of Moving Object over a Belt Conveyor Using Background Subtraction Technique, , India, pp.87-91, | 10th International Conference on Precision, meso, micro and nano Engineering (COPEN 10) | International | Indian Institute of technology madras, Chennai-600036 |
|  | 5th and 6th January 2018 | Optimization of WEDM parameters for Super Ni-718 using Neutroscopic sets and TOPSIS METHOD, pp 184 | 1st International Conference on innovations in mechanical engineering | International | Department of Mechanical Engineering, Gurunanak Institutions, Hyderabad |
|  | 29th &30th November 2017 | Optimization of Tensile strength of hybrid class/epoxy composite material with white cement filler by using ANOVA, pp 178-183 | International Conference on Future Technologies in Mechanical Engineering (ICFTME’17), | International | Department of Mechanical Engineering, Malla Reddy College of Engineering, Hyderabad |
|  | 2018 | An investigation on dry sliding wear behaviour of AA6061-  AlNp composite | IOP Conf. Series: Materials Science and Engineering, volume(330) (ICRAMMCE 2017) | International | Published under licence by IOP Publishing Ltd |
|  | 12 December 2019 | Experimental Investigations on Microstructure, Mechanical and Wear Behavior Under Dry Sliding of Al6061 with Particulate-Reinforced SiC and TiB2 Metal Matrix Composite Developed by Stir Casting, pp 293-304 | [Emerging Trends in Mechanical Engineering](https://link.springer.com/book/10.1007/978-981-32-9931-3),   * Print: ISBN978-981-32-9930-6 * Online: ISBN978-981-32-9931-3 | International | * Publisher Name: Springer, Singapore |
|  | First Online: 07 November 2019 | A New Approach to Control the Position of Joint Arm Robot Using Image Background Subtraction Technique, pp 845-854| | [Advances in Simulation, Product Design and Development](https://link.springer.com/book/10.1007/978-981-32-9487-5),   * Print: ISBN: 978-981-32-9486-8   Online: ISBN: 978-981-32-9487-5 | International | * Publisher Name: Springer, Singapore |

**National conferences:**

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| S.  No. | Month and Year of Presentation | Title or Topic of Invited Lecture or Presentation | Name of the conference/seminar | International / National / State / University level | Location where the event is organized |
|  | Dec 21st, 2002 | Numerical predictions of the effect of piston boul configuration on the in cylinder fluid flow in a D.I. Diesel Engine | National Conference on advanced trends in Mechanical Engineering Research and Development | National | Dept. of Mech.Engg., J.N.T.U.C.E, Anantapur |
|  | Dec 21st, 2002, | Use of alchohals in Diesel Engines with the concept of surface ignition | National Conference on advanced trends in Mechanical Engineering Research and Development | National | Dept. of Mech.Engg., J.N.T.U.C.E, Anantapur |
|  | Dec 21st, 2002 | Web based condition monitoring of the industrial machines by using vibration analysis | National Conference on advanced trends in Mechanical Engineering Research and Development | National | Dept. of Mech.Engg., J.N.T.U.C.E, Anantapur |
|  | 21st & 22nd June 2013 | Prediction and analysis of surface roughness of an Aluminium alloy materials using ANN in CNC turining, , pp. 150- 157 | National Conference on Innovations in Mechanical Engineering | National | MITS, Madanapalli, Chitoor (Dist,) AP, India, |
|  | 23rd sepetember-2015. | Comparison of performance and emission characteristics of C.I. Engine by using different piston coatings | National Conference on Trends in Mechanical Engineering | National | Dept. of Mech.Engg, JNTUACEA.,AP, India.(Sponsored by UGC), |
|  | 23rd sepetember-2015 | Effect of capillary tube diameter on the performance of vapour compression refrigeration system using R437A as working medium | National Conference on Trends in Mechanical Engineering | National | Dept. of Mech.Engg, JNTUACEA.,AP, India.(Sponsored by UGC), |
|  | 23rd sepetember-2015 | Design and analysis of grid connected hybrid PV – Diesel power system | National Conference on Trends in Mechanical Engineering | National | Dept. of Mech.Engg, JNTUACEA.,AP, India.(Sponsored by UGC), |
|  | 23rd sepetember-2015 | Evaluation of performance and emission characteristics of poppy seed oil blends on single cylinder four stroke diesel engine | National Conference on Trends in Mechanical Engineering | National | Dept. of Mech.Engg, JNTUACEA.,AP, India.(Sponsored by UGC), |
|  | 23rd sepetember-2015 | Optimization of commercial vehicle Exhaust flex bellow | National Conference on Trends in Mechanical Engineering | National | Dept. of Mech.Engg, JNTUACEA.,AP, India.(Sponsored by UGC), |
|  | 23rd sepetember-2015 | Experimental analysis of double pass solar air heater with different inclinations. | National Conference on Trends in Mechanical Engineering | National | Dept. of Mech.Engg, JNTUACEA.,AP, India.(Sponsored by UGC), |
|  | 9th -12th December 2016. | objective tracking on moving conveyor using image subtraction with Gaussian mixture model(GMM),., | Silver Jublee Congress of APSMS-2016 and national conference on Emerging trends in mathematical Sciences & applications in engineering Sciences | National | Department of mathematics, N.B.K.R.Institute of science and Technology (Autonomous), Vidyanagar, SPSR Nellore Dist |

Place: Anantapur

Date : **(Dr. B.CHANDRA MOHANA REDDY)**