



Dr. GOTETI CHAITANYA (M.E., Ph.D., M.I.S.T.E)

Associate Professor

Department of Mechanical Engineering

R.V.R & J.C College of Engineering

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RESEARCH GATE: <https://www.researchgate.net/profile/Chaitanya-Goteti-2>

WEB OF SCIENCE RESEARCHER ID: ABG-7283-2020

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=57210239132>

Objective(s):

To be a part of an esteemed academic institute which offers a successful and progressive career based on frugal and fair assessment of employee's performance. To reach higher goals in the area of Mechanical Engineering adhering to high technical, professional and ethical standards at work place.

Educational Qualifications:

S.NO	Degree	Faculty / Area	University	Year	Class / Grade
1	Ph.D	Mechanical Engineering	JNTU-Hyderabad	May-2012	N.A
2.	M.E	Computer Aided Design	Satyabama University	May 2004	Distinction
3.	B.Tech	Mechanical Engineering	Acharya Nagarjuna University	April 2001	Distinction

Industrial and Academic Experience:

S.No	Position Held	Organization	Duration
1	Associate Professor	RVR&JCCE-Guntur	July 2012 to Till date
2	Assistant Professor (Lecturer)	RVR&JCCE-Guntur	Sept 2004 to July 2012
3	Quality Control Engineer	ARPPL-Hyderabad	May2001 to April 2002

Research Guidance

Presently Guiding 1 student registered for PhD in the department of Mechanical Engineering at ACHARYA NAGARJUNA UNIVERSITY as research supervisor. The details of students who received Phd degrees under my guidance are as given below.

S.NO	Name of the Candidate	Research Title	University/Year of registration	Status
1	Dr.M.L.Laksmi Aparna	Investigations on fatigue damage and repair of 430 GSM Sika E-glass FRP composites using Digital Image correlation Technique	Acharya Nagarjuna University (2014)	Awarded
2	Dr.K.Siva prasad	Investigations for optimal process parameters in machining-GFRP composite by Abrasive water jet machining method	Acharya Nagarjuna University (2014)	Awarded
3	Dr.K.Siva Koteswara Rao	Investigations for optimum process parameters in turning Ti6ALV4 titanium alloy using Nano cutting fluid following minimum quantity lubrication.	Acharya Nagarjuna University (2014)	Awarded

***MTech Guidance:** Guided 17 students so far to defend their M.Tech theses.

Subjects Taught :

- ☞ Machine Element Design
- ☞ Strength of Materials / Mechanics of Solids
- ☞ Engineering Mechanics
- ☞ Optimization Methods
- ☞ Operations Research

Departmental Duties (Other than Teaching):

- Work shop in charge for the Department of Mechanical Engineering.
- Member Board of Studies.
- MOOCS/NPTEL Department In charge.

***Patent Published:**

Efficient Wind Turbine Blades with adaptive twist mechanism.

Indian patent application no: 202341057814 A

Publication Date : 08/09/2023.

Patent office Journal No : 36/2023.

Publications (Journals)

1. **G.Chaitanya**, J.Suresh-Kumar, Kolla Srinivas “Multi Objective Optimization of axial flow compressor stage using Genetic Algorithm approach”, International Journal of Applied Engineering Research, Vol5, No 10 , pages 1827-1842 , 2010.[SCOPUS]**G.Chaitanya**, J.Suresh Kumar, Kolla Srinivas “Optimization of Axial Compressor stage using NSGA-II technique”, ARPN Journal of Engineering and Applied Sciences, Vol5, No 12, pages 1-5, 2010.[SCOPUS]
2. **G.Chaitanya**, J.Suresh Kumar, Kolla Srinivas “A Non-Elitist Multi Objective Genetic Algorithm for Axial Compressor Stage Optimization”, International Journal of Engineering Science & Technology, Vol3 , No 2, Pages 940-947 , 2011.
3. **G.Chaitanya**, Kolla Srinivas, “Multi Objective Evolutionary Optimization Techniques A Review”, International Journal of Advanced scientific and technical research, Vol5, issue2, pages 563-572, 2012.
4. **G.Chaitanya**, Kolla Srinivas, J.Suresh kumar “Effect of Fiber Orientation on Mode-I crack opening stress intensity of an orthotropic laminate”, Research Journal of Engineering Sciences, Vol2(5), pages 30-34, 2013.
5. **G.Chaitanya**, Reddy Sreenivasulu, “ NDT Techniques to investigate Fracture in Continuous fiber reinforced composite structures- A Review”, International Journal of current Engineering and Technology, Vol3(4), pages 1271-1275, 2013.
6. Reddy Sreenivasulu, **G.Chaitanya**, “ Comparative study of Resistance spot welding and Friction stir welding of dissimilar alloys: Review”, International Journal of advanced scientific and technical research, Vol5(3), pages 325-333, 2013.

7. **G.Chaitanya**, B.Ravi Shankar, “A Genetic Algorithm based Optimization Scheme to find the best set of design parameters to enhance the performance of an automobile radiator”, International Journal of Lean thinking, Vol4(2), pages 33-42, 2013.
8. **G.Chaitanya**, Reddy Sreenivasulu, “ Effect of fiber volume fraction, fiber angle and hole size on the stress concentration around the circular hole of an orthotropic lamina under uni directional in plane loading”, International Journal of applied Sciences and engineering, Vol 2(1), pages 1-12, 2014.
9. Reddy Sreenivasulu, **G.Chaitanya**, “Optimization of machining parameters and material selection during drilling of Aluminium alloys-A Review”, AKGEC International Journal of Technology, vol5 , issue 2, pp: 1-8, Dec 2014.
10. Reddy Sreenivasulu, **G.Chaitanya**, “MADM Technique integrated with Grey based Taguchi method for selection of Aluminum alloys to minimize deburring cost during drilling”, Independent Journal of Management and production, vol6, issue2, pages 464-477, 2015.[WOS]
11. **G.Chaitanya** , Reddy Sreenivasulu, “ Design Optimization of Tripod Truss : SLP Approach”, Independent Journal of Management and production, Vol 6, issue1, pages 83-92, 2015.[WOS]**G.Chaitanya**, Reddy Sreenivasulu, “Analysis of non circular members subjected to twisting loads : A finite difference approach”, Independent Journal of Management and production, vol6, issue3,pages 803-812, September 2015.[WOS]
12. Reddy Sreenivasulu, **G.Chaitanya**, “Solar-Electric Hybrid Eco friendly vehicle”, AKGEC International journal of technology, vol6, issue2, pages 17-22, December 2015.
13. **G.Chaitanya**, Reddy Sreenivasulu, “Design optimization of IC engine Rocker-arm using Taguchi based Design of experiments”, AKGEC International Journal of Technology, vol7, issue 1 pp: 38-42, 2016.
14. K Siva Prasad, **G.Chaitanya**, “The Research Review on Abrasive Machining”, International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE), vol3, issue 6, pp: 20-28, june 2016.
15. **G.Chaitanya**, Reddy Sreenivasulu, “Genetic Algorithm based optimization of a two link robot manipulator”, International journal of lean thinking, vol7, issue2, pp:1-13, 2017.
16. **G.Chaitanya**, B.Muddu Krishna, “Work space optimization of a R-R planar manipulator using particle swarm optimization technique”, International journal of Engineering science and Technology, Multi craft, vol9, issue1, pp: 46-54, 2017.
17. **Goteti Chaitanya**, Siva Koteswara rao Katta, “Investigations for optimal surface roughness & cutting force during turning titanium (grade 5) with response surface methodology”, International Journal of Mechanical and Production Engineering, vol5, issue12, pp: 130-138, 2017.
18. **G.Chaitanya**, Siva Koteswararao. Katta, “Prediction of process parameters in turning of titanium alloys using response surface methodology”, International Journal of

Mechanical and Production Engineering Research and Development (IJMPERD), vol8, issue1, pp: 541-550, 2018, Trans Stellar publishers.[SCOPUS]

19. K.Siva Koteswara rao, **G.Chaitanya**, “Evaluation of surface roughness on MQL turned Ti-6AL-4V alloy by RSM and Box-Cox Transformation”, Journal of material science and surface Engineering, vol6, issue2, pp:783-791,2018.

20. K.Siva Koteswara rao, **G.Chaitanya**, “Optimum method to investigate machining parameters in turning Grade5 Titanium alloys with the use of carbide tip tools” American Journal of Mechanical and Industrial Engineering, Vol3,issue2,pp:27-33,2018.

21. Lakshmi Aparna, L., Sai Sravani, K., Sambasiva Rao, V. **G.Chaitanya**, “Evaluation and damage repair of continuous GFRP tensile composite laminate using FEA, “International Journal of Recent Technology and Engineering. , 7(4), pp. 264–268, 2018.(SCOPUS).G.V.Mahesh, **Goteti Chaitanya**, “Experimental investigations on Machinability of Aluminium 6063 alloy by abrasive water jet machining”, International Journal of Engineering development and Research, Vol7, issue3, pp:280-286,2019.

22. Palaparathi Ganesh, **Goteti Chaitanya**, “Experimental determination of mechanical and tribological properties of GFRP composites filled with SIC powder”, Compliance Engineering Journal, Vol 11, issue9, pp: 508-517, 2020.

23. Sreenivasulu Reddy, **Chaitanya Goteti**, “Optimization of process parameters for multi criterion decision making in abrasive water jet machining of magnesium - silicon based aluminum alloys International Journal of Modern Manufacturing Technologies, 13 (1), 176-184, 2021.[SCOPUS]

24. Reddy Sreenivasulu, **Goteti Chaitanya**, G.Vijay Kumar , M.Radha Devi, “Inverse kinematic solution for five bar parallel linkage planar manipulator using python and optimization by Taguchi method, “International Journal of Engineering Trends and Technology 69 (5), 94-100, 2021. [SCOPUS]

25. K. Siva Prasad, **G.Chaitanya**, “Experimental investigations on dimensional accuracy in drilling of GFRP composites”, Solid state Technology journal, 64 (2), 1175-1180, 2021.

26. K. Siva Prasad, **G.Chaitanya**, “Multi-objective optimization of process parameters in GFRP composite drilling process using GRA-PCA technique”, Journal of Xidian University 15 (1), 116-123, 2021.

27. K.Siva Prasad, **G.Chaitanya**, “Multi-response optimization for Drilling of GFRP Composites using hybrid GRA-PCA technique”, ARPN Journal of Engineering and Applied Sciences, 16 (11), 1186-1192, 2021. [SCOPUS].

28. Sreenivasulu, R., & **Chaitanya, G.** (2022). Self-adaptive penalty method coupled with metaheuristic algorithms to optimization of varying geometrical parameters in drilling for multi hole parts. *Sigma*, 40(4), 855-867.[WOS & SCOPUS]

29. **GOTETI Chaitanya** and Reddy SREENIVASULU. "A review on magneto rheological fluids and their applications." *Sigma* 41.3 (2023): 613-624[WOS & SCOPUS].

Publications (Conferences)

1. K.Siva Prasad, **G.Chaitanya**, “Experimental study on surface roughness and dimensional accuracy of hole machining process on GFRP composites using abrasive water jet technique.”, Materials Today proceedings , vol23, 2020, .pp :651-658, 2020.[SCOPUS]
2. Siva Prasad K., **Chaitanya G**, “Optimization of process parameters on surface roughness during drilling of GFRP composites using taguchi technique”, Materials Today: Proceedings, 39, pp. 1553–1558, 2020.[SCOPUS] K.Siva Prasad, **G.Chaitanya**, “Analysis of delamination in drilling of GFRP composites using Taguchi Technique”, Materials Today proceedings , vol18, pp: 3252-3261, 2019.[SCOPUS]
3. K.Siva Prasad, **G.Chaitanya**, “Selection of optimal process parameters by Taguchi method for drilling GFRP composites using abrasive water jet machining technique”, Materials Today proceedings , vol5, pp: 19714-19722, 2018.[SCOPUS]
4. K.Siva Koteswara rao, **G.Chaitanya**, “Investigations for optimal combination of tool and machining parameters for machining titanium TI-6AL- 4V using CBN inserts”, National Conference on Technological Advancements in Mechanical Engineering, JNTU College of Engineering (A), Kakinada, vol1, issue 1, pp: 22-26, 2016.
5. M.Lakshmi Aparna, **G.Chaitanya**, Kolla Srinivas, Jetti Apparao, “Fatigue Testing of continuous GFRP composites using Digital Image Correlation technique a review”, Materials today proceedings, vol2, pages 3125-3131, 2015.[SCOPUS]
6. **G.Chaitanya**, E.Anusha, A.Abhinav, M.Suraj and K.Anuraju, “A Review of adhesively bonded FRP composites”, Proceedings of 4th National conference on Advances in Mechanical Engineering (AIM), Hyderabad, DE-111, pages 62-66, 2013.

Research Interests

- Optimization Techniques
- Design and analysis of Mechanical structures
- Manufacture of Polymer Composites
- Mechanics of solids / Strength of Materials

Participation in Seminars and work Shops.

- Participated in three day National workshop on “Advances in Manufacturing” held at CBIT Hyderabad during March 2007.
- Participated in short term intensive course on “Advances in Composite Materials” held at Vignan’s Engineering College Guntur during June 2007.
- Participated in ISTE faculty training programme held at R.V.R & J.C College of Engineering during July 2008. Participated in AICTE sponsored national seminar on “Micro Machining” held at R.V.R & J.C College of Engineering during December 2008.
- Participated in three day workshop on “Meta Heuristics & their Applications in Design, Manufacturing and Materials”, held at Vignan University during June 2009.
- Underwent Training Programme on “Modeling using Solid works and design validation”, conducted by CADD Centre software solutions during August 2009.
- Participated in a National workshop on “Advanced trends in IC Engines & Combustion” held at JNTU Hyderabad during February 2013.
- Participated in a two day National seminar on “Solar Energy harvesting through photo voltaic cells and storage”, organized by Department of physics, R.V.R & J.C College of Engineering, 21st and 22nd June 2013.
- Attended a two day work shop on “Recent trends in Manufacturing”, organized by department of Mechanical Engineering, CBIT-Hyderabad, 29th and 30th July 2013.
- Participated in two day work shop on “Futuristic trends of Nano Composites and their Fabrication”, organized by Department of Mechanical Engineering, R.V.R & J.C College of Engineering, 6th and 7th September 2013.
- Participated in a two day workshop on Engineering Drawing under Tequip-II, Organized by department of mechanical engineering, Malla Reddy Engineering College, Hyderabad during 12th and 13th of September 2014.
- Participated in one day National work shop on Optimization Techniques with MATLAB (OTM-2015) organized on 31st August 2015 at Velagapudi Ramakrishna Siddhartha Engineering College Vijayawada.

- Participated in AICTE sponsored 2 week FDP on “Emerging Technologies and Challenges in Mechanical Engineering”, organized by department of Mechanical Engineering, R.V.R and J.C college of Engineering, Guntur during 21st October to 2nd November 2019.
- Participated in one week APSSDC online FDP on “Practical aspects of Finite element analysis using ABAQUS”, held during 18-4-2020 to 24-04-2020.
- Participated in APSSDC online FDP on “Automotive structures design using CATIA”, held during 30-4-2020 to 02-05-2020.
- Participated in APSSDC online FDP on “Design for manufacture and Assembly”, held during 21-5-2020 to 23-05-2020. Participated and completed successfully TEQUIP sponsored short term online course on Advanced Manufacturing and Materials, at Indian Institute of Technology, Indore, from 2020-12-18 to 2020-12-20.
- Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on 3D Printing and Design at Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram during 2021-1-4 to 2021-1-8.
- Participated and completed successfully APSSDC Online FDP on VEHICLE DYNAMICS SETUP USING MBD by APSSDC in association with Dassault systems during 2021-5-10 to 2021-5-14.
- Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on Advancement in Material Processing Technologies at Tapi Diploma Engineering College, Surat, Gujarat during 9/8/2021 to 13/8/2021.
- Participated and completed successfully International workshop on Re-Manufacturing and capability building organized by National Institute of Advanced Manufacturing Technology Surat, Gujarat during 15/9/2022 to 18/9/2022.

NPTEL CERTIFICATION (IIT Kharagpur)

- NPTEL certification from IIT Kharagpur on “Outcome based pedagogic principles for effective Teaching” during august- September 2018.
- NPTEL certification from IIT Kharagpur on “Intellectual property rights and competition law”, September-October 2023.

IIT BOMBAY CERTIFICATION:

- IIT Bombay certification program on Information communication Technologies- FDP101X during September 2018.

Other pertinent Information:

1. Delivered a Lecture on Mechanics of solids at ST.Mary's Group of Institutions, Narakoduru, Guntur on 02-11-2015.
2. Delivered a Lecture on Design of Machine Members-II at ST.Mary's Group of Institutions, Narakoduru, Guntur on 05-02-2016. Delivered a Lecture on Thermoset polymer composite welding at R.V.R & J.C College of Engineering during October 2019.
3. Served as Member of Editorial board for I-Manager's Journal of physical sciences from July 2019 to June 2020.

Professional body Member Ships

1. Life Member of Indian Society For Technical Education : LM 68507
2. Member International Association of Engineers :ID:126395

Address for Communication

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Residential Address

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References:

1. Dr.J.Suresh Kumar, Professor, Department of Mechanical Engineering, JNTU-Hyderabad. ph : 9848349839. E-mail: jyothula1971@gmail.com.
2. Dr.K.Vijaykumar Reddy, Professor, Department of Mechanical Engineering, JNTU-Hyderabad. E-mail: kvijayakumarreddy@gmail.com , vijayakumarreddy@jntuh.ac.com.
3. Dr. Reddy Sreenivasulu, Associate Professor, Department of Mechanical Engineering, RVR & JC College of Engineering, Guntur. Ph: 9441069440. E-mail: rslu1431@gmail.com

Declaration

I do hereby declare that the information provided by me is true to the best of my knowledge and belief.

Dr. Goteti Chaitanya [Signature]

Dr. Goteti Chaitanya.