

Name of Faculty Dr. G LAXMAIAH  
 Designation Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 25-06-2004  
 E-mail glaxmaiah\_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
PhD	Doctor of Philosophy (Mechanical)	Awarded
PG	M. E (Machine Design)	First
UG	B. Tech (Mechanical)	First

Work Experience

Teaching	26 Years (Includes research experience)
Research	06 Years
Industry	--
Others	--

Area of Specialization Machine Design, Vibrations

Professional Memberships Life Member ISTE(LM23913) ,Member SAE INDIA (7180410781)

Responsibilities held at Institution Level

1. Member, NIRF Committee(2021-2022)
2. Chairman, Cultural committee, Shruthi2022
3. Transport In-Charge from 01-01-2009 to 12-03-2020.
4. R&D Coordinator from 11-01-2019 to 06-12-2019.
5. Co convener, NC- REDNeST2015 (23-24 Jan 2015)
6. Convener, SUDHEE 2015(10-11 March 2015)
7. Member, Skill Development Centre (2012-2014)
8. Member, Website committee (2008-2010)
9. Member, Newsletter committee (2008-2010)

Responsibilities held at Department Level

1. Convener, ICDSME-2021(3-4 April 2021)
2. Informatics Committee In-charge June 2020 onwards)
3. Member, Board of Studies, CBIT
4. In-charge, Central workshop (2005-2009)
5. Member, ISO activities (2008-2012)
6. Member, PAC, CAD/CAM

Research Guidance 04 Research Scholars (work is in progress)

Awards Received ---

Courses Handled at Under Graduate / Post Graduate Level. Engineering Graphics and Design, Engineering Graphics-I, Engineering Graphics-II, Engineering Graphics, Machine Drawing, Kinematics of machines, Dynamics of machines, Design of machine elements, Machine Design, Vibration analysis and condition monitoring.

No. of Papers Published National Journals – 01 International Journals – 16  
 National Conference – 02 International Conference – 08

Projects Carried out

1. Industrial Consultancy Work from J K Fenner(India) Ltd, Hyderabad on “F E Analysis of EFGC 16” for an amount of Rs 47,200/- (2020-2021)
2. AICTE Seminar Grant of Rs 1.0 lakhs For “Machinery Vibration Analysis”(MVA-2017) held on 5<sup>th</sup>- 6<sup>th</sup> October 2017 (2017-18)
3. TEQIP II Grant of Rs 0.47 Lakhs for “Vibration Analysis and condition Monitoring of Machines”(VACMM2015) held on 9<sup>th</sup> and 10<sup>th</sup> January 2015(2014-15)
4. Industrial Consultancy Work from J K Fenner(India) Ltd, Hyderabad on “Static and Fatigue analysis of pulleys” for an amount of Rs 22,023/- (2013-2014)

Patents --

Technology Transfer

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Invited Speaker

1. Expert Lecture on "Design of Keys and cotter joints" at CMR Engineering College, Hyderabad on 18<sup>th</sup> November 2019
2. Expert lecture on "Noise measurement in hermetic compressors" at AICTE sponsored two day national seminar on "Machinery Vibration Analysis(MVA-2017)" organized by Chaitanya Bharathi Institute of Technology, Hyderabad during 5<sup>th</sup> and 6<sup>th</sup> October 2017
3. Expert Lecture on Design of Machine Members I at Guru nanak Institute of Technology, Hyderabad on 29.09.2015
4. Expert lecture on Vibration measurement a case study on hermetic compressor at TEQIP sponsored two day national workshop on Vibrational Analysis and Condition Monitoring of Machines organized by Chaitanya Bharathi Institute of Technology, Hyderabad during 9-10 Jan 2015
5. Expert lecture on Classification of Gears, belts and rope drives at Basics of mechanical engineering for non mechanical personnel organized by RCI, DRDO Hyderabad during 14<sup>th</sup> to 18<sup>th</sup> March 2011
6. Expert lecture on Classification of Gears, belts and rope drives at Basics of mechanical engineering for non mechanical personnel organized by RCI, DRDO Hyderabad on 23<sup>rd</sup> February 2010.

No. of Books/Chapter Published with details

1. Editor for Proceedings of 1<sup>st</sup> International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME2021), INSC Publishing House (IPH), ISBN: 978-1-956102-42-0, April 2021
2. Editor for Proceedings of AICTE Sponsored Two day National Seminar on Machinery Vibration Analysis(MVA 2017), ISBN 978-93-87418-10-3, Vrinda Publishing House, October 2017
3. Translator to the X Class Mathematics-Beeja Ganitham Text book from English to Telugu for the Maharashtra State Board of Secondary and higher secondary Education, Pune, Maharashtra, 2001.
4. Dr G Laxmaiah, Noise Measurement for Hermetically sealed Reciprocating Compressor, Proceedings of AICTE Sponsored Two day National Seminar on Machinery Vibration Analysis(MVA 2017), ISBN 978-93-87418-10-3, Vrinda Publishing House, October 2017

Details of Short-Term Training Programs/ Faculty Development Programs/Seminars/Workshops, Other Trainings (Attended and/or Organized).

1. Organized as a convener for 1<sup>st</sup> International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME-2021), at Chaitanya Bharathi Institute of Technology(A), Hyderabad, 3-4 April 2021,
2. Organized as a convener for one week Faculty Development Programme on the "INDUSTRY 4.0 – A VISION OF DESIGN AND MANUFACTURING, at Chaitanya Bharathi Institute of Technology, Hyderabad from 16<sup>th</sup> to 20<sup>th</sup> June 2020.
3. Organized as a coordinator for two day AEROMANIA WORKSHOP at Chaitanya Bharathi Institute of Technology, Hyderabad in association with ASME CBIT and R&I club CBIT on 19<sup>th</sup> and 20<sup>th</sup> February 2020
4. Organized as a coordinator for the 8 days internship on Gasoline/Electric Formula race car design and development at Mahatma Gandhi Institute of Technology, Hyderabad in association with Elite Techno Groups from 10<sup>th</sup> - 17<sup>th</sup> December 2019
5. Organized as a coordinator for Research Day a one day national student technical festival at R&D Centre, Chaitanya Bharathi Institute of Technology, Hyderabad on 23<sup>rd</sup> August 2019
6. Organized as a coordinator for the 8 days internship on Gasoline/Electric Formula race car design and development

at Chaitanya Bharathi Institute of Technology, Hyderabad in association with Elite Techno Groups from 23<sup>rd</sup> - 30<sup>th</sup> July 2019

7. Organized as a coordinator for AICTE sponsored Two day national Seminar(Seminar Grant) on "Machinery Vibration Analysis "(MVA-2017)at Chaitanya Bharathi Institute of Technology, Hyderabad from 5<sup>th</sup> and 6<sup>th</sup> October 2017
8. Attended Formula Imperial 2022 organized by ISIEINDIA held at Galgotia University and Buddh International Circuit, Greater Noida during 26<sup>th</sup> -30<sup>th</sup> August 2022.
9. Attended AICTE one week Online Orientation Training Programme for Mentors under National Initiative for Technical Teachers Training (NITTR) from 7<sup>th</sup> February to 11<sup>th</sup> February 2022.
10. Attended 5 days SERB Online International workshop on Recent Advances in Modeling Analysis of Porous Materials (RAMAPM 2022) Organized by Department of Mechanical Engineering, National Institute of Technology, Karnataka Surathkal from 28.02.2022 to 04.03.2022
11. Attended one week AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Novel Materials" from 22/11/2021 to 26/11/2021 at University college of Engineering, Osmania University, Hyderabad
12. Attended one week AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "3D Printing and Design" from 25/10/2021 to 29/10/2021 at University College of Engineering, Osmania University, Hyderabad
13. Attended one week online Short-Term Training Program (STTP) on "Vibration Analysis using MATLAB" organized by National Institute of Technical Teachers Training and Research (NITTTR), Kolkata from 4<sup>th</sup> -8<sup>th</sup> October 2021.
14. Attended AICTE Sponsored one week online Short-Term Training Program(STTP-4) on "Innovations and Challenges in Industry4.0 Automation and Smart Manufacturing", organized by Department of Mechanical Engineering, Kallam Haranadha Reddy Institute of Technology, Guntur from 9<sup>th</sup> to 14<sup>th</sup> August 2021.
15. Attended AICTE Sponsored one week Short Term Training Programme(Phase 3) on "Trends and challenges of Hybrid Electric drive utilities in Transport Sector" from 22<sup>nd</sup> to 27<sup>th</sup> February 2021 at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad
16. Attended AICTE Training And Learning (ATAL) Academy Online Faculty Development Program on "Molecular Manufacturing", at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad from 19<sup>th</sup> - 23<sup>rd</sup> October 2020
17. Participated with merit in AICTE Sponsored One Week Online Short Term Training Program" on "Modeling and Analysis using MATLAB and Python for Mechanical Engineering Applications" organized by VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 3<sup>rd</sup> to 8<sup>th</sup> August 2020.
18. Attended one week AICTE Sponsored Short Term Training Program (STTP) on "Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education"organized by St.Joseph's College of Engineering, Chennai from 27<sup>th</sup> July 2020 to 1<sup>st</sup> August 2020.
19. Attended One Week Online Faculty Development Program on "Recent Advances in Mechanical Engineering: A Research Perspective" organized by Mahatma Gandhi Institute of Technology, Hyderabad from 6<sup>th</sup> to 10<sup>th</sup> July, 2020

20. Attended "One Week Online Refresher course on "BharateeyaChaitanyam" organized by the Geervana Bharathi of Chaitanya Samskruthi at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad from 29<sup>th</sup> June 2020 to 5<sup>th</sup> July 2020.
21. Attended "One Week National Level Online Faculty Development Program on "Recent Trends in Mechatronics and Automation" Jointly Organized by the Department of Mechanical Engineering and Electronics & Telecommunication Engineering, NBN Sinhgad School of Engineering, Ambegaon, Pune, Maharashtra from 30<sup>th</sup> June to 04<sup>th</sup> July, 2020
22. Attended One Week Faculty Development Programme on "Outcome based Education and NBA Accreditation Process-(UG)", at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad from 28<sup>th</sup> May 2020 to 1<sup>st</sup> June 2020.
23. Attended one week Faculty development Program on Outcome based education: A step towards excellence under AICTE Margdarshan scheme at Government college of Engineering , Karad, Maharastra From 11<sup>th</sup> to 15<sup>th</sup> May 2020
24. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi, from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020
25. Participated in SWACHHATA PAKHWADA-2020 organized by Chaitanya Bharathi Institute of Technology, Hyderabad From 16<sup>th</sup> to 31<sup>st</sup> January 2020.
26. Attended International Conference on "innovations in Mechanical Engineering" (ICIME-2020) sponsored by AICTE in collaboration with springer, Gurunanak Institute of Technology, Hyderabad from 10<sup>th</sup> - 11<sup>th</sup> January 2020.
27. Attended SUPRA SAEINDIA Student formula 2019 held at Buddha international circuit, Greater Noida, from 15<sup>th</sup> to 20<sup>th</sup> July 2019.
28. Attended 2 day national conference on Aerospace and related Mechanisms (ARMS 2018) from 16<sup>th</sup> to 17<sup>th</sup> November 2018 at BITS, Hyderabad.

Details of Journal Publications/  
Conferences (**National and  
International**)

#### **International Journals**

- 1) Dr G Laxmaiah, P Anjani Devi, Dr Ch Indira Priyadarshini, Anirudh Kishan K, V Karthikeya Reddy, S Vijaya Bhanu Deepak " Design and Analysis of Semi- Recumbent Bicycle" International Research Journal of Engineering and Technology (IRJET) p-ISSN: 2395-0072 ,e-ISSN: 2395-0056, Volume: 09 Issue: 06, June 2022, pp 2498-2505
- 2) P. Anjani Devi, Dr G.Laxmaiah, V Jaipal Reddy "Static And Dynamic Analysis of High Speed Motorized Spindle" International Research Journal of Engineering and Technology (IRJET) p-ISSN: 2395-0072e-ISSN: 2395-0056 Volume: 09 Issue: 05, May 2022, pp 3573-3578
- 3) S. Solomon Raj, Venkata Sushma Chinta, G. Laxmaiah, Manthri Neelima "Experimental Charactrization of Hybrid Composite Materials for Tension, Flexural and Impact Behaviour, International Research Journal of Engineering and Technology (IRJET) p-ISSN: 2395-0072 ,e-ISSN: 2395-0056, Volume: 09 Issue: 06, June 2022, pp 3148 – 3160.
- 4) Dr. G. Laxmaiah, P Anjani Devi, Dr.Ch. Indira Priyadarshini, Dr. Sateesh Nagri "Optimization of Cross Section in spring design for Two Wheeler Shock Absorber" Turkish Journal of Computer and Mathematics Education, e-ISSN 1309-4653, Vol.12 No.13,June 2021, pp 685-690
- 5) P Anjani Devi, Dr G Laxmaiah ,K Y Sreeram, Dr V V Sheshagiri Rao "Fatigue and Dynamic Analysis of Control Arm" NOVIY MIR Research Journal, ISSN NO: 0130-7673, Volume6, Issue6, June 2021, pp 234-246.
- 6) Dr.Ch.Indira Priyadarsini, Dr.T.Ratna Reddy ,Dr.G.Laxmaiah, M.SubhaPradha "Study of Heat Transfer in Solar collector with Water-Nano Fluid Mix" NOVIY MIR Research Journal, ISSN NO: 0130-7673,Volume6, Issue6,June 2021,pp73-79.

- 7) Dr. S. Solomon Raj, Dr. G. Laxmaiah, Mr. N. Sandeep , "Design, Analysis and Optimization of 6 DOF Robotic ARM", International Journal of Mechanical and Production Engineering Research and Development(IJMPERD),ISSN(P): 2249-6890; ISSN (E): 2249-8001 Volume 10,Issue 3,June 2020, pp 5493–5500.
- 8) Dr. G. Laxmaiah, Dr. S. Solomon raj, Dr P.V.R Ravindra Reddy "Experimental stress Analysis of Rocket Motor Casing Using Elasto-Plastic Strain Theory", International Journal of Mechanical and Production Engineering Research and Development(IJMPERD),ISSN(P): 2249-6890; ISSN (E): 2249-8001,Volume 10,Issue 3, June,2020,pp 4027–4038.
- 9) P.V.R Ravindra Reddy, G.Chandra Mohan Reddy, B.V.S Rao, G.Laxmaiah "Effect of Various Parameters on the Bead Geometry and Flexural Strength of MIG Welded Joint" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-3,January 2020, pp 555-559
- 10) Dr. S. Solomon Raj , Dr. G. Laxmaiah , V. Ravi Kumar "Design And Analysis Of Fuselage Skin Repair Joint" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD),ISSN (P): 2249-6890; ISSN (E): 2249-8001,Vol. 9, June 2019,Issue 3, pp 887-894(SCOPUS Indexed)
- 11) Dr. G. Laxmaiah, Dr. P. V. R. Ravindra Reddy, Dr. S. Solomon raj "Experiemental Studies On Optimization Of Molding Sand Composition With Tamarind Kernel Powder As Additive" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 9, Issue 3,June 2019, pp 939-946 (SCOPUS Indexed)
- 12) G Laxmaiah, Rishi teja Madduri "Design and implementation of autonomous 2D mapping robots using the principles of swarm intelligence". IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISSN: 2278-1684,Volume 14, Issue 5 Ver.V , Sep-Oct 2017,pp 63-70
- 13) G Laxmaiah, M V S Murali Krishna "Experimental Investigations on Exhaust Emissions of DI Diesel Engine with Tobacco Seed Biodiesel with Varied Injection Timing and Injection Pressure". International Journal of Current Engineering and Technology(IJCET), ISSN 2347-5161 ,Vol 6,No 6 ,Dec 2016, pp2110-2115
- 14) G.Laxmaiah, Dr P Ravinder Reddy, MNSV Kiran kumar "Optimization of Parameters Effecting the Noise in Hermitically Sealed Reciprocating Compressor Using Taguchi Technique". International Journal of Multidisciplinary Research and Advances in Engineering (IJMRAE), ISSN 0975-7074, Volume 4, Number IV, October 2011, pp 383-394
- 15) G.Laxmaiah, Dr P Ravinder Reddy, MNSV Kiran kumar "Experimental Investigation of Parameters Effecting the noise Reduction in hermetically sealed Reciprocating Compressor" International Journal of Engineering Science and Technology (IJEST), ISSN 0975-5462,Volume 3, Number 7, July 2011,pp 5948-5953
- 16) G.Laxmaiah, Dr P Ravinder Reddy, MNSV Kiran kumar "Effect of Configuration on Noise in Hermetically sealed Reciprocating Compressor", International Journal of Engineering research and Technology (IJERT).ISSN 0974-3154,Volume4, Number 1, 2011, pp 161-166.

#### National Journals

- 1) A ASrirama Krishna, G Laxmaiah, Siva priya A (2016) "Finite Element Analysis of Metal Removal Rate on AL/SIC-MMC Using EDM Process". Manufacturing Technology Today, Central Manufacturing Technology Institute ,ISSN 0972-7396, July 2016, pp 21-26

#### International Conferences

- 1) Dr.G. Laxmaiah, E. Manasa, Dr.Ch. Indira Priyadarshini "Design and Analysis for Piston of Four Stroke Engine With Different Materials" International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME2021) at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad during 3-4 April 2021, ISBN: 978-1-956102-42-0 ,Volume1,pp286-297
- 2) Sareddy Soumya Reddy, Dr.G. Laxmaiah, Sadige Akhil Prasad, G.Harshavardhan Reddy "Design and Analysis of Micro Tunnel Boring Machine" International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME2021) at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad during 3-4 April 2021, ISBN: 978-1-956102-42-0 ,Volume1, pp242-255
- 3) Sadige Akhil prasad, Dr. G. Laxmaiah, G.Harsha Vardhan reddy, SareddySoumya reddy "Design and Analysis of Chassis of Heavy Dump Truck" International Conference on Developments in Sustainable materials, Manufacturing and Energy engineering (ICDSME2021) at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad during 3-4 April 2021, ISBN: 978-1-956102-42-0 ,Volume1, pp214-224
- 4) G Laxmaiah ,P V R Ravindra Reddy, B V S Rao I Vinay Kumar, A ASrirama Krishna, P Prabhakar Reddy "Investigation, Analysis and Reduction of Casting defects in CO2 Moulding process – A Case Study" International Conference on Technological innovations in Mechanical Engineering (TIME-2016),

at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad and IRD India. 10-11, Feb 2016, ISBN:978-93-81692-07-1, Volume II, pp10-12

- 5) A ASrirama Krishna, G Laxmaiah, H Saikiran, "Experimental investigations on Machinability Characteristics of MMC's using Electrical Discharge Machining" International Conference on Technological innovations in Mechanical Engineering (TIME-2016), at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad and IRD India. 10-11, Feb 2016, ISBN:978-93-81692-07-1, Volume II, pp 29-33.
- 6) G Laxmaiah, A ASrirama Krishna, P Ravinder Reddy "Effect of Shell Thickness on Noise in hermetically sealed Reciprocating Compressor". International Conference on Technological innovations in Mechanical Engineering (TIME-2016), at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad and IRD India. 10-11, Feb 2016, ISBN:978-93-81692-07-1, Volume II, Pp13-16
- 7) G.Laxmaiah, Dr P Ravinder Reddy "Noise reduction in hermetically sealed reciprocating compressor- a PSD approach" International Conference on Computational Methods in Engineering and Sciences (CMES-2009) at Chaitanya Bharathi Institute of Technology, Hyderabad, 8-10 JAN 2009, pp 829-837
- 8) Dr P Ravinder Reddy G.Laxmaiah "PSD Analysis of the Shell of a Compressor" International Conference on Vibration Engineering & Technology of Machinery (VETOMAC IV -2007), Jointly organized by BHEL Hyderabad and Osmania University College of Engineering, Hyderabad, 17-19 Dec, 2007, pp 401- 411.

#### National conferences

- 1) R.P Chowdary, G Laxmaiah, B V S Rao, M V S Murali Krishna "Biodiesel-A Solution for Fuel Crisis A Review", National Conference on Role of Engineers in the New State of Telangana, at Chaitanya Bharathi Institute of Technology, Hyderabad, 23-24 Jan 2015, Pp40
- 2) G.Laxmaiah, P.Ravinder Reddy, P.V.R.Ravindra Reddy "Nonlinear Elasto Plastic Analysis of a 6FA Gas Turbine Wheel", XXIII .National Convention of Mechanical Engineers, The Institution of Engineers(India), Hyderabad.10-12 Sep, 2007, P.2.33-2.37

