Polymer Composites Laboratory
Department of Mechanical Engineering
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G. C. Mohan Kumar, PhD
Professor (HAG)

Professor in Mechanical Engineering at National Institute of Technology Karnataka, Surathkal, Mangalore since 2007. Earlier to this, started teaching career with Bapuji Institute of Engineering & Technology [BIET], Davangere as a Lecturer (1986), Assistant Professor (1997-2004) and become Professor & Head of the department (2004-2007). Now at NITK Surathkal working as a Professor (Higher Administrative Grade). So far guided 46 MTech thesis work, 2 M.Tech.(Research) and supervised 20 Ph.D. Scholars. [16 were awarded PhD, 1 thesis submitted and 3 ongoing]. Published the research articles in 64 international Journals and 165 Conferences. Worked at various capacities as a Member of Board of Studies and Examination, Senate member etc.

SPECIALIZATION: Mechanical Design Engineering

AREAS OF RESEARCH INTEREST: Stress Analysis, Biomechanics, Bio-composites and implants

COURSES TAUGHT: Design Engineering, Experimental Stress Analysis, Finite Element Analysis, Heat Transfer, Product Design & Manufacturing, Mech. of Deformable Bodies,

EDUCATION

Degree	Date of Graduation	Institute/University
Ph.D., Applied Mechanics	26 July 1996	Indian Institute of Technology, Madras, Chennai, Tamilnadu
M.E., Design Engineering	November 1991	Walchand College of Engineering, Sangli/ Shivaji University, Kolhapur
B.E., Mechanical Engg.	November 1984	Siddaganga Institute of Technology, Tumkur/ Bangalore University, Karnataka

EMPLOYMENT

Designation	Duration	Organization
Professor(HAG)	Oct. 2018 till date	National Institute of Technology Karnataka, Surathkal, Mangalore
Professor	Dec. 2007 – Oct 2018	
Professor	April 2004- Dec. 2007	Bapuji Institute of Engg. & Technology, Davangere, Karnataka
Asst. Professor	1997-March 2004	
Lecturer	1987-1997	Adichunchanagiri Institute of Technology, Chikmagalur, Karnataka
Lecturer	1985-1987	Bapuji Institute of Engg. & Technology, Davangere, Karnataka

PUBLICATION DETAILS

Refereed Journal papers: International: 61, National: 3 Conferences: International: 117, National: 48 Contributed Book chapters: 5 AICTE-CEP Course Materials: 6 Conference/STTPs/Workshop Proceedings Edited: 19 Technical Project/consultancy Reports: 8	Editor: Advances in Mechanical Design, Materials and Manufacture, ICDEM 2018 and 2019, Advances in Polymer Composites ICPC2016 Published by American Institute of Physics. AIP Conference Proceedings

RESEARCH PROJECTS COMPLETED

1998-2000	Investigation and Development of low-cost natural fibre reinforced composites, Dept. of Science and Technology, New Delhi, Rs.8.83 L
1998-2000	Laser and Ultrasonic testing for Metrology, AICTE, New Delhi, Rs.8.83 L
2006-2008	Development of Areca reinforced Maize composites as an alternate material for wood based particle boards, Council of Scientific & Industrial Research, New Delhi, Rs.4.88 L

PHD SUPERVISION

Degree Awarded:

1. **R.P. Swamy**, *Development and Study of Natural Fiber Composites*, Kuvmpu University, Shankragatta, Karnataka
2. **G. Manovendra** [USN 4BD04PMN02] *A study of Thermo-Mechanical Properties of Natural Fiber Areca Reinforced Composites*, Visvesvaraya Technological University, Belagavi, 2012
3. **D.B. Ganesh** [USN 4BD04PMN03] *Expt. Investigation on Performance and emission characteristics of biodiesel from acid oil & its blends in Conventional and Electronic Direct Injection Diesel Engine*, Visvesvaraya Technological University, Belagavi, 2012
4. **D. Saravana Bavan** [ME08F02] *Experimental Investigation and analysis of maize natural fibre Composites for structural applications*, NITK Surathkal, 2014
5. **Rajshekhar Lalbondre** [ME10F02] *Machinability Studies on Carbon and alloys Steels using Face Turning*, NITK Surathkal, 2014
6. **Madhusudhan** [ME08P02] *Some studies on Process parameters in Centrifugal Casting*, NITK Surathkal 2014
7. **K. Raghavendra** [ME10F05] *Development and characterization of polymer structure by Micro Stereolithography*, NITK Surathkal, 2015
8. **Shriniwas S Metan** [ME10P03] *Analysis of a Shoulder and Knee Joint muscles using developed CPM Machine and Finite element Method*, NITK Surathkal, 2016
9. **N. Balashanumgam** [ME11P02] *Development and characterization OF Micro-needle based Electrode for Bio-potential Measurement*, NITK Surathkal, 2016
10. **N. H. Sateesh** [ME10F09] *Processing and characterization of Inconel 625-SiC Metal matrix Composites by Direct Metal Sintering*, NITK Surathkal, 2016
11. **Muralidhar Lakkkana** [ME10F03] *Critical Design Aspects of Plastic Injection Mould*, NITK Surathkal, 2017
12. **P. Kamal Babu** [ME09F02] *Processing and characterization of cuttlebone polymer composites for biomedical applications*, NITK Surathkal, 2017
13. **M.S. Raviraj** [USN 4BD07PMM01] *Experimental Investigation on Fracture Behaviour of Al-TiC Metal Matrix Composites*, Visvesvaraya Technological University, Belagavi, 2018
14. **Kiran H. Shahapurkar** [ME15F06] *Experimental Investigation of Cenosphere/Epoxy Syntactic Foam Composites*, NITK Surathkal, 2018
15. **M. Nagamadhu** [ME12P09] Mechanical properties of woven sisal and jute fiber reinforced Composites NITK Surathkal, 2020
16. **Thimothy H Gonsalves** [ME14P04] Dynamic Behavior of composite shaft rotor system of an aero gas engine turbine, NITK Surathkal, 2021

Ongoing PhD Thesis Supervision

1. **B. Y. Santhosh Kumar** [ME16F17] Nano Bio-ceramic Composites for artificial cartilages.
2. **Mallikarjun Jagaleri** [ME18F27] Bio-ceramic Composites for dermal applications.
3. **Sanjay Suresh Sutar** [197ME016] Experimental and finite element stress analysis for material
   optimization of a spur gear by radial holes.
4. **Santosh M. B.** [207066ME017] Acoustic Characteristics of sandwich Composite Structures.

CONFERENCES/WORKSHOPS ORGANIZED

International Conference on Design, Materials and Manufacture, 6-8, Dec 2019
International Conference on Polymer Composites ICPC- 2018, 15-16 Dec. 2018
International Conference on Design, Materials and Manufacture, 29-31, Jan 2018
International Conference on Polymer Composites ICPC- 2014, 19-20 Dec. 2014
Four Days Work Shop on Numerical and Experimental Stress Analysis, 16-19 Dec. 2013
Four Days Workshop on Recent Trends in Design & Precision Engineering, 9-12, Dec 2013
Workshop on Curriculum Review of BTech & MTech programmes in Mech.Engg, 5 May 2011
Short Term Training Program on Fracture Mechanics & Fatigue, 10-14 August 2011
Short Term Training on Advances in Manufacturing & Precision Engineering, 20-24 June 2011
International Conference of Frontiers in Mechanical Engineering, 20-21, May 2010
Short Term Training Program on Composites & Smart Materials, 12-16 July 2010
Short Term Training Program on Advances in CNC Machine Tool Design, 13-17 July 2009
Short Term Training Program on Computer-Aided Design for Practicing Engineers
National Conference on Development of Advanced Composite Components in Aerospace and Automobile Applications, 9–10 Feb 2007
Seminar on Role of Energy Conservation and Energy Audit in Present Scenario, 29 Sept. 2005
Workshop on Total Quality Management, 11 March 2005
Workshop on Advances in Composites: Design, manufacturing, and Analysis, 7 April 2003,
AICTE ISTE STTP Course on Computer-Aided Design and Analysis, 29 July–10 Aug. 2003
AICTE ISTE STTP Course on Biomedical Engineering, 20-31 Aug. 2001
Three Week course on Computer Programming for Technical Teachers, 5- 24 July 1999

VISITS ABROAD

- Research Interaction, University of Malaya, Kula Lumpur, 18-22 December 2017.
- International Conference on Processing and Fabrication of Advanced Materials-XXVI, CBN University, Jeonju, South Korea, 16-23, Oct 2017.
- International Conference Mechanical Properties of Materials, Venice, Italy, 14-17 Dec 2016
- International Conference BEPS-2015, KIT, Karlsruhe, Germany, 10-15 Oct. 2015
- Visit to universities at Paris, France, 15-20 Oct. 2015
- Michigan State University & Rutgers University, New Jersey, USA, 28 June to 18 July 2014
- Research Interaction at University of Singapore, Singapore, 19-27 May 2013
- International Conference BEPS-2013 University of Warwick, Coventry, UK, 16-21, Sep. 2013
- International Engineering Symposium, University of Kumamoto, Japan, 03-07, Mar. 2013
- Visit to Asian Institute of Technology, AIT Bangkok, Thailand, 28 Feb- 2 March 2013

- Conference of 25th Anniversary of Institute of Materials, Kula Lumpur, Malaysia, 08-13, July 2012
- International Conference BEPS 2010, Toronto, Ontario Canada, 12-16, Oct. 2010
- Research Interaction at Center for Composite Manuf. University of Delaware, USA, Oct. 2008
- World Engineering Congress 2008, Imperial College, London UK, 01-08, July 2008

Administrative positions and outreach activities:

- Head of the Department of Mechanical Engineering, NITK from 21-02-2010 to 20-02-2013
- Head of the Department of Mechanical Engineering, BIET 4-3-2004 to 21-11-2007
- Senate Member, NITK Surathkal since 2007
- Warden, Mega Hostel, 2009-2012
- Developed Curriculum for MTech [Design & Precision Engineering] programme 2010
- Curriculum revision for BTech[Mech. Engg] and MTech programmes in the department 2011
- Development of Polymer and Composites Lab in the department
- Interaction and proposal for MoU between NITK and CMTI Bangalore 2010
- Organized 19 STTP courses/Conferences in the area of Mechanical Engineering since 2005
- Expert and Member of SAC and ACM of AICTE, New Delhi
- Member, Board of Examinations, Visveswaraya Technological University & Kuvempu University
- Member, Board of Studies, SIT Tumkur [Autonomous Institute] 2012-13, Member, Board of Studies, JNTU, Anantapur, Andra Pradesh 2012-13, Member, Board of Studies, MCE Hassan [Autonomous Institute] 2014-16
- Member, Research Council, Engineering & Technology development, Kerala State Council for Technology, Environment and Management, Thiruvananthapuram, Kerala

Publications: Book Chapters

Sl. No	Details of Publications in International and National Journals
1.	Mohan Kumar G. C (2011) Structure and Properties of Short Areca Fiber Reinforced Maize PF Composites Current Themes in Engineering Science 2008, Ed. By Alexander M Korsunsky, University of Oxford, American Institute of Physics, Selected presentation at the World Congress on Engineering 2008, held at Imperial College LONDON
2.	D. Saravana Bavan, Mohan Kumar G. C. (2012) Chapter 4: Maize-Natural Fiber as Reinforcement with Polymers for Structural Applications Biopolymers, Biomaterials, and Their Composites, Blends, and IPNs, Volume- 2, Recent Advances in Materials Sciences book series, Apple Academic Press, Inc. Spring 2012
3.	D. Saravana Bavan, Mohan Kumar G. C. (2013) Chapter 7: Re-Use of Natural Plant Fibers for Composite Industrial Applications Recycling and Reuse of Materials and their Products, Advances in Materials Science, (Eds). Grohens Y., Kumar, S. K., Boudenne, A., Apple Academic Press, Canada, January 2013 ISBN: 978-1-926895-27-7
4.	D. Saravana Bavan, Mohan Kumar G. C. (2014) A View on Eco-Friendly Natural fibers for Packaging Polymers in Packaging Applications, (Eds) Alavi S., Varghese, J., Sandeep, K.P., Thomas, S., CRC Press, Taylor Francis Group, U.S.A
5.	D. Saravana Bavan, Mohan Kumar G. C. (2015) A View on Cellulosic Nano-Composites for Treatment of Waste Water Nano-composite for wastewater treatment, (Ed) Mishra A. K, Pan Stanford Publisher, Singapore

PUBLICATIONS IN REFEREED JOURNALS: INTERNATIONAL AND NATIONAL	
Sl. No	**Details of Publications in International and National Journals**
1.	Thimothy Harold Gonsalves, Mohan Kumar Garje Channabasappa & Ramesh Motagondanahalli Rangarasaiah Hybrid composite shaft of High-Speed Rotor-Bearing System - A rotor dynamics preview **Mechanics Based Design of Structures and Machines,** published online on 10 Nov 2020, DOI: 10.1080/15397734.2020.1841003
2.	Thimothy Harold Gonsalves, Mohan Kumar Garje Channabasappa, Ramesh Motagondanahalli Rangarasaiah & Sharnappa Joladarashi Dynamic characterization of hybrid composite material of rotor-bearing support system **Mechanics of Advanced Materials and Structures** published online on 21 Dec 2020, DOI: 10.1080/15376494.2020.1861667
3.	Thimothy Harold Gonsalves, G.C. Mohan Kumar, M.R. Ramesh Dynamic study of composite material shaft in high-speed rotor-bearing systems, **International Journal of Vehicle Noise and Vibration** (IJVNV), Vol. 15, No. 2/3, 2019 https://doi.org/10.1504/ijvnv.2019.106371
4.	G C Mohan Kumar, Nagamadhu M., Jeyaraj P. Influence of Glutaraldehyde Cross-linker on Dynamic Properties of Polyvinyl Alcohol Polymer **Emerging Materials Research**, Volume 9 Issue 1, March 2020, pp. 1-13 DOI: 10.1680/jemmr.18.00059
5.	Nagamadhu M., Jeyaraj P., G C Mohan Kumar Influence of Textile Properties on Dynamic Mechanical and Thermal Analysis of Epoxy composite reinforced with woven Sisal fabrics **Sadhana** 45(1):1-10 (2020) DOI: 10.1007/s12046-019-1249-zS Indian Academy of Sciences
6.	Nagamadhu M., Jeyaraj P., G C Mohan Kumar Mechanical and Tribological Behavior of Woven Sisal Fabric **Tribology in Industry**, Vol. 41, No. 4 (2019) 622-633, DOI: 10.24874/ti.2019.41.04.14
7.	Nagamadhu M., Jeyaraj P., G C Mohan Kumar Characterization and Mechanical Properties of Sisal Fabric Reinforced Polyvinyl Alcohol Green Composites: Effect of Composition and Loading Direction, **Materials Research Express**, Volume 6, Number 12, 2019 DOI: 10.1088/2053-1591/ab56b3
8.	B. Y. Santosh Kumar, Arun M. Isloor, G. C. Mohan Kumar, Inamuddin, & Abdullah M. Asiri Nanohydroxyapatite Reinforced Chitosan Composite Hydrogel with Tuneable Mechanical and Biological Properties for Cartilage Regeneration **Scientific Reports**, Nature 9:15957 (2019) DOI**:**10.1038/s41598-019-52042-7 Nature.com; Scientific Reports
9.	Santosh Kumar B Y, Arun M Isloor, Sukumaran Anil, Jayachandran Venkatesan and G C Mohan Kumar, Calcium Phosphate Bio-ceramics with Polyvinyl Alcohol Hydrogels for Biomedical Applications **Materials Research Express**, Volume 6, Number 12, 2019 DOI: 10.1088/2053-1591/ab549f
10.	Kiran Shahapurkar, Mrityunjay Doddamani, G.C. Mohan Kumar, Nikhil Gupta Effect of Cenosphere Filler Surface Treatment on the Erosion Behavior of Epoxy Matrix Syntactic Foams **Polymer Composites**, Volume.40, Issue 6, Pages 2109-2118, 2019

	https://doi.org/10.1002/pc.24994
11.	Kiran Shahapurkar Vikas Bapura Chavan, Mrityunjay Doddamani, G.C.MohanKumar Influence of surface modification on wear behavior of fly ash cenosphere/epoxy syntactic foam **Wear**, Volume. 414–415, Pages 327-340, 2018 https://doi.org/10.1016/j.wear.2018.09.001 Elsevier
12.	Raviraj M.S., Sharanaprabhu C.M., Mohan kumar G.C. Effect of specimen crack lengths on stress intensity factor for Al6061-TiC composites using experimental and 3D numerical methods **International Journal of Structural Integrity**, Volume: 8 Issue: 5, pp.506-515, 2017 https://doi.org/10.1108/IJSI-09-2016-0030 Emerald Publishing
13.	M.S. Raviraj, C.M., Sharanaprabhu, G.C. Mohan Kumar Experimental and 3D FE Evaluation of Crack Initiation Energy J1C in Al6061-TiC Composites **Strength, Fracture and Complexity**, Vol. 11, pp. 1-10, 2018 DOI: 10.3233/SFC-180213, IOS Press
14.	Kiran Shahapurkara, Carlos D. Garcia, Mrityunjay Doddamania, G.C. Mohan Kumara, Pavana Prabhakar C. Compressive behavior of cenosphere/epoxy syntactic foams in arctic conditions **Composites - Part B Engineering**, Volume 135, Pp.253-262, 2018 http://dx.doi.org/10.1016/j.compositesb.2017.10.006 Elsevier
15.	N Balashanmugam, Naveen K, Prasad Krishna, G C Mohan Kumar Design and Development of microneedle array-based electrode for bio-potential measurement, **International Journal of Nanomanufacturing**, vol. 13 No.3, pp.221 - 234, 2017 DOI: 10.1504/IJNM.2017.10005591
16.	Kiran Shahapurkara, Carlos D. Garcia, Mrityunjay Doddamania, G.C. Mohan Kumara, Pavana Prabhakar C. Effect of arctic environment on flexural behavior of fly ash cenosphere reinforced epoxy syntactic foams **Composites - Part B: Engineering**, Volume 151, Pages 265-273, October 2018 https://doi.org/10.1016/j.compositesb.2018.06.035 Elsevier
17.	Codanda Devaiah Monappa, Akarsh Kidiyur Sathish, Parichit Kumar, Athul Anilkumar, G. C. Mohankumar Comparison of Stiffness of Skin - Simulations vs Experimental **Trends in Mechanical Engineering & Technology**, Vol. 7 (3); 1–7p. 2017 ISSN: 2231-1793
18.	M.S. Raviraj, C.M. Sharanaprabhu, G.C. Mohan Kumar Experimental Investigation of Effect of Specimen Thickness on Fracture Toughness of Al-TiC Composites **Frattura ed Integrità Strutturale (Fracture and integrated structures)**, Volume 37, Pp.360-368, 2016 DOI: 10.3221/IGF-ESIS.37.47
19.	Metan S.S., Mohan Kumar G.C., Prasad Krishna, FEM an Effective Tool to Analyze the Knee Joint Muscles during Flexion **American Journal of Biomedical Engineering**, 6(2), 43-52, 2016 DOI: 10.5923/j.ajbe.20160602.01
20.	Metan Shriniwas S., Mohankumar G. C., Krishna Prasad Sensitivity analysis of shoulder joint muscles by using the FEM model **Biomaterials and Biomechanics in Bioengineering** Volume 3(2), Pages.115-127, 2016 https://doi.org/10.12989/bme.2016.3.2.115

21.	N.H. Sateesh, G.C. Mohan Kumar, Prasad Krishna, Influence of Ni-P Coated SiC and Laser Scan Speed on the Microstructure and Mechanical Properties of IN625 Metal Matrix Composites, **Lasers in Manufacturing and Material Processing,** Volume 2(4), Pp.187–198, 2015. DOI: 10.1007/S40516-015-0014-3, Springer
22.	Murulidhar Lakkanna, G.C. Mohan Kumar, Ravikiran Kadoli Computational Design of Mould Sprue for Injection Moulding Thermoplastics **Journal of Computational Design and Engineering**, Society of CAD/CAM Engineers, Vol. 3(1), Pp. 37–52, 2016. DOI:10.1016/j.jcde.2015.06.006Elsevier
23.	N Balashanmugam, Naveen K, Prasad Krishna, G C Mohan Kumar Fabrication of polymeric microneedle array by micromachining & micro molding **International Journal of Engineering and Innovative Technology**, Vol.5 (6), 2015
24.	Murulidhar Lakkanna, G.C. Mohan Kumar, Ravikiran Kadoli Viscosity- A Challenge for Injection Mould **International Journal of Computational Intelligence and Informatics**, Vol.4(1), April 2014, ISSN: 2349-6363
25.	Murulidhar Lakkanna, G.C. Mohan Kumar, Ravikiran Kadoli Criticality of Appreciating non-Newtonianivity in Plastic Injection Mould Conduit Design **International Journal of Fluid Mechanics Research**, Vol. 42(4),301-314, 2014 ISSN 1064-2277, DOI**:** 10.1615/InterJFluidMechRes.v42.i4.20
26.	Kamalbabu Periswamy, G.C. Mohan Kumar Sea Coral derived Cuttlebone reinforced epoxy Composites: Characterization and tensile properties evaluation with Mathematical models **Journal of Composite Materials**, 1-17, 2015 DOI: 10.1177/0021998315581512 Sage Journals
27.	Murulidhar Lakkanna, G.C. Mohan Kumar, Ravikiran Kadoli Simple Viscosity Criterion for Injection Moulding Thermoplastics **Polimeri:** Plastics and Rubber Journal, Vol.35, 1-2, pp 29-33, 2014 ISSN:0351-1871 UDK 678.027:678.075
28.	Sateesh N. H., G.C. Mohan Kumar, Prasad Krishna Effect of Heat Treatment on coated Ceramics for composite formation by Laser Processing **International Journal of Advances in Engineering Sciences**, 4(4), pp.14-18, 2014 http://rgjournals.com/index.php/ijse/article/view/597/325
29.	Sateesh N.H, G.C. Mohan Kumar, Prasad Krishna Effect of Process Parameters on Surface Roughness of Laser Processed Inconel Superalloy **International Journal of Scientific and Engineering Research**, Vol. 5 (8), pp.232-236, 2014 www.ijser.org/research-paper-publishing-august-2014_page2.aspx
30.	S.S.Metan, G.C. Mohan Kumar, Prasad Krishna Shoulder Put Into Effect by means of Developed Low-Cost CPM Machine **European Scientific Journal**, Vol.10, No 27, Pp 242-254, September 2014 http://eujournal.org/index.php/esj/article/view/4335
31.	Madhusudhan, Narendranath S, G. C. Mohan Kumar Properties of centrifugal casting at different rotational speeds of the die **International Journal of Emerging Technology and Advanced Engineering**, Volume 3, Issue1, Pp. 727-731, January 2013. ISSN 2250-2459, ISO 9001: 2008 Certified Journal, http://www.ijetae.com/files/Volume3Issue1/IJETAE_0113_120.pdf

32.	Madhusudhan, Narendranath S, G.C. Mohan Kumar Effect of Mould Wall Temperature on Rate of Solidification of Centrifugal Casting **International Journal of Advanced Materials Sciences**, Volume 4, Number 1 (2013), pp. 37- 42, ISSN 2231-1211 Research India Publications
33.	K. Raghavendra, Prasad Krishna, Mohan kumar G C et.al. Effect of Temperature Variations on the dimensional stability of benchmark structure fabricated by scan-based micro stereolithography process **International Journal of Advanced Science and Technology** IJAIST Vol.28, No 28, 2014
34.	S. Usha, P.V. Shashi Kumar, G.C. Mohan Kumar, S.S. Rao Through Focus Optical Imaging Technique to Analyse Variations in nano-Scale Indents **International Journal of Engineering Research & Technology**, Vol.2(5), May 2013 http://www.ijert.org/browse/volume-2-2013/may-2013-edition?start=10
35.	Muralidhar Lakkanna, Ravikiran Kadoli, G C Mohan Kumar Configuring Sprue conduit Expansion in Plastic Injection Mould Design **International Journal of Applied Engineering Research in Mechanical Engineering**, vol.3, issue no.1. pp.15-21, 2013 ISSN: 2231 –5950 Interscience Research Network
36.	Saravana Bavan D, G.C. Mohan Kumar Finite Element Analysis of a Natural Fiber (Maize) Composite Beam **Journal of Engineering**, vol.2013, pp.1-7, 2013 http://dx.doi.org/10.1155/2013/450381
37.	Rajshekhar Lalbondre, Prasad Krishna And Mohan Kumar G C Methodological and Parametric Studies of Machinability of Carbon and Alloy Steels **International Journal of Earth sciences and Engineering**, Vol.6, No.4, pp.722-726, Aug. 2013 ISSN 0974-5904
38.	K. Mahesh Kumar, G.C. Mohan Kumar, Vishwas Puttige Virtual Sensing Technique for Thermal Error Compensation of a CNC Machine Tool **International Journal of Engineering Research & Technology**, Vol.2(3), 2013, e-ISSN:2278-0181
39.	K.T.Navya, V. Shanmugaraj, G.C. Mohan Kumar, PV Shashikumar A Digital Design Approach and Implementation for Thermal Error Compensation in Machine Tools by Precision Positioning and Feedback Signal Manipulation **Reason**, Vol.XII, pp.87-92, 2013 ISSN:2277-1654
40.	S.S. Metan, Prasad Krishna, G.C. Mohan Kumar Low-Cost CPM Machine for Knee Joint **Applied Mechanics and Materials**, Vol. 215-216, Pp. 125-132, 2012 DOI: 10.4028/www.scientific.net/AMM.215-216.125
41.	Saravana Bavan D., G.C. Mohan Kumar Morphological and Thermal Properties of Maize fibre Composites **Fibers and Polymers**, Vol.13, No.7, pp.887-897, 2012 DOI: 10.1007/s12221-012-0887-0
42.	Patel CH, Viswas Puttige, G.C. Mohan Kumar Low-Cost Automation for CNC Machining Center **International Journal of Mechanical Engineering and Technology**, Vol.3, issue 2, pp. 806-816, May 2012 ISSN 0976 – 6340 (Print)

43.	Rajshekhar Lalbondre, R.Manu, Prasad Krishna, G.C Mohan Kumar Machinability of Bearing Steels by Face Turning Method **International Journal of Scientific & Engineering Research** Volume 3(6), June 2012 http://www.ijser.org/xplore.html ISSN 2229 – 5518
44.	K. N. Bharath, R. P. Swamy, G. C. Mohan Kumar Thickness Swelling Behaviour of Hybrid Natural Fiber Reinforced UF Composites **Journal of Purity, Utility Reaction and Environment,** Vol.1 No.10, pp. 517-524, 2012 ISSN: 2232-1179
45.	Madhusudhan, Narendranath S, G.C. Mohan Kumar Experimental Study on Cooling Rate of Centrifugal Casting Based on Grain Size **International Journal of Scientific & Engineering Research**, Volume 3, Issue 1, PP. 1-3, January-2012 http://www.ijser.org/xplore.html ISSN 2229 – 5518
46.	Saravana Bhavan D., G.C. Mohan Kumar Examination of Tensile Strength and FTIR Features of Maize Fibers Reinforced Polymer Composites **International Journal of Recent Trends in Engineering & Technology**, Vol 5, No.4, pp. 27-30, March 2011 ISSN:2231-5381
47.	G. Manavendra, S. Kumarappa, G.C. Mohan Kumar Experimental investigation of Thermal Properties of Areca Fiber Reinforced Phenol-Formaldehyde Composites **Journal of Advanced Materials**, 22 April 2011 ISSN:1070-9789
48.	Ali Sabah Al-Turhee, Mohan Kumar G C Numerical Stress Analysis Of Higher Order Dies For Extrusion of Aluminum **International Journal of Composite Materials and Manufacturing**, Vol.1(1), 2011 DOI: CMM01201104
49.	SaravanaBavan D., G.C.Mohan Kumar A Novel Decorticator Design for Natural Plant Fibres **International Journal of Applied Engineering Research**, Vol.6, issue no.5. Pp.561-567, 2011 ISSN: 0973-9769
50.	Ganesh D. B, G.C.Mohankumar, B.M.Kulkarni, S.Kumarappa Optimization of Injection Timings in Single Cylinder C I Engine using Biodiesel as Fuel **International Journal of Engineering Research and Technology**, Volume 3, Number 1, Pp. 133-140, 2010, ISSN: 0974-3154
51.	Madhusudhan, Narendranath S, G.C.Mohan Kumar Effect of Mould Wall Thickness on rate of Solidification of Centrifugal Casting **International Journal of Engineering Science and Technology**, Vol. 2, No. 10, pp. 6090-6094, 2010 ISSN: 0974-3154
52.	Saravana Bavan D., G.C. Mohan Kumar Potential Use of Natural Fiber Composite Materials in India **Journal of Reinforced Plastics and Composites** Vol.29 (24), pp.3600-3613, Dec 2010 doi: 10.1177/0731684410381151
53.	G. Manavendra, S. Kumarappa, C.S. Bhaskar Dixit, G.C. Mohan Kumar Characterization of Areca Fiber Reinforced Phenol-Formaldehyde composites **International Journal of Materials Science**, Vol.5, No.3, pp 299-308, 2010 ISSN: 2315-4527

54.	Madhusudhan, Narendranath S, G.C. Mohan Kumar Experimental study on rate of solidification of centrifugal casting **International Journal of Mechanical and Materials Engineering**, Vol. 5, No. 1, PP 101-105, 2010 ISSN: 1823-0334 Springer
55.	Bharath K N, Swamy RP, G. C. Mohan Kumar Experimental studies on biodegradable and swelling Characteristics of natural fibres Composites **International Journal of Agricultural Sciences**, Vol.2, issue 1, pp. 1-4, 2010 DOI: http://dx.doi.org/10.9735/0975-3710.2.1.1-4
56.	G.C. Mohan Kumar Mechanical and Acoustic Properties of Areca Fiber Reinforced Phenol-Formaldehyde Composites, **Journal of Advanced Materials**, Vol. 42(2), Pp.34-40, 2010 ISSN:1070-9789
57.	Ganesh D. B., G.C .Mohan Kumar, B. M. Kulkarni, S. Kumarappa Biodiesel Characterization and Experimental Analysis On The Blends Of Biodiesel Produced From Acid Oil (A Waste Byproduct of Vegetable Oil Refinery) in a Direct Injection CI Engine for Performance Evaluation and Emission **International Journal on Mechanical & Automobile Engineering** (IJMAE), Vol.6, No.9, pp. 25-33, 2009 ISSN 0974 –231X
58.	S.R. Venkatesh, G.C. Mohan Kumar Optimization of Manufacturing process to improve casting yielding **Manufacturing Technology Today**, Vol:7(1), 16-21, 2008 ISSN: 0972-7396
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83.	G. C. Mohan Kumar, G. Manovendra, S. Kumarappa, Acoustic and Damping Characteristics of Areca Fiber Reinforced Phenol-Formaldehyde Composites, 19th Bio Environmental Polymer Society (BEPS)- Annual Meeting, Contribution N0.111, Vienna University of Technology, Vienna, Austria, 28-30 September 2011
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85.	Atma Sudhir Shetty, G. C. Mohan Kumar, Shrikantha S Rao, Mervin Herbert, Characterization of Friction Stir Welded Al-4.5Cu Alloy and Al-4.5Cu-5TiB2 Composites, International Conference on Advanced Materials and Processing, ICAMT-2011, RMK College of Engineering, Chennai, India
86.	Saravana Bavan D., G. C Mohan Kumar, Vacuum Assisted Resin Transfer molding for Natural Hybrid Polymer Composite Material, Second International Conference on Recycling and Reuse of Materials, ICRM 2011, IL 59, Mahatma Gandhi University, Kottayam, Kerala, India Aug.5-7, 2011
87.	Saravana Bavan D, Mohan Kumar G. C., Conceptual design features and eco-methods for the extraction of natural fibers in the materialistic earth, 3rd International Conference on Research into Design (ICORD-2011)- Supporting Sustainable Product Development, Indian Institute of Science, Bangalore, India, 10-12 January 2011
88.	Saravana Bavan D, Kamalbabu, Mohan Kumar G. C.,

	Modelling and finite element analysis of green composites for structural applications, 2nd International Conference on Advancements in Polymeric Materials –Innovations in materials and product development, Central Institute of Plastics Engineering and Technology, Chennai, India, 25-27 March 2011.
89.	Saravana Bavan D, Mohan Kumar G. C., Prospects of Bio-Polymer in Natural Fiber Composites, Second International Conference on Polymer Processing and Characterization (ICPPC-2010), Mahatma Gandhi University- Kottayam, Kerala, India, 15 -17 January 2010
90.	Madhusudan, Narendranath S., Mohan Kumar G.C., Mukunda P. G., Experimental Study on Effect of Mold Wall Thickness on Rate of Solidification of Centrifugal Casting, (MMF307) International Conference on Frontiers in Mechanical Engineering (FIME-2010), National Institute of Technology Karnataka, Surathkal, Karnataka, India, 20-22 May 2010
91.	Raviraj M.S., G.C. Mohan Kumar, Finite Element Approach to predict the elastic properties of particulate composites (DA513) International Conference on Frontiers in Mechanical Engineering (FIME-2010), National Institute of Technology Karnataka, Surathkal, Karnataka, India, 20-22 May 2010
92.	Saravana Bavan D, Mohan Kumar G. C., Mechanical Strength and Analysis of Natural Fibers, (DA156) International Conference on Frontiers in Mechanical Engineering (FIME-2010), National Institute of Technology Karnataka, Surathkal, Karnataka, India, 20-22 May 2010
93.	G. Manavendra, S. Kumarappa, G.C. Mohan Kumar, Thermal stability, Mechanical Properties and Morphology of Areca Fiber Reinforced Polymer Composite,(DA-111) International Conference on Frontiers in Mechanical Engineering (FIME-2010), National Institute of Technology Karnataka, Surathkal, Karnataka, India, 20-22 May 2010
94.	Ganesh D. B., G.C. Mohan Kumar, B.M. Kulkarni, S. Kumarappa, Biodiesel Production From Acid Oil (A Byproduct Of Vegetable Oil Refinery) Using Extractive Distillation Principle And A Study On Performance Evaluation And Emission Characteristics of CI Engine, (TH-110) International Conference on Frontiers in Mechanical Engineering (FIME-2010), National Institute of Technology Karnataka, Surathkal, Karnataka, India, 20-22 May 2010
95.	G. C. Mohan Kumar, Natural Maize- Areca reinforced Polymer Composites for Acoustic Applications, International Conference on Polymers and the Environment: Emerging Green Technologies and Science, Bio-Environmental Polymer Society, Toronto, Canada, 13-15 October 2010
96.	Saravana Bavan D, G. C. Mohan Kumar, Reinforcement of Maize Fibers in Processing of Bio-Composite Materials by VARTM, International Conference on Polymers and the Environment: Emerging Green Technologies and Science, Bio-Environmental Polymer Society, Toronto, Canada, 13-15 October 2010
97.	Saravana Bavan D, G. C. Mohan Kumar, Maize- Natural Fiber as reinforcement with polymers for Structural Applications, Second International Conference on Natural Polymers and Biomaterials (ICNP-2010), Institute of Macromolecular Science and Engineering, M.G. University, Kottayam, Kerala, 24-26 September 2010
98.	Saravana Bavan D, G. C. Mohan Kumar, Characterization of polymers and their behavior study in achieving environmentally-friendly natural fiber composite material, International Conference on Frontiers of Polymers & Advanced Materials (MACRO-2010), Indian Institute of Technology, Delhi, India, India Habitat Centre, New Delhi, India. 15-17 December 2010
99.	Ganesh D. B, G. C. Mohan Kumar, S. Kumarappa,

	Effect Of Biodiesel Derived From Acid Oil And Its Blends With Diesel When Directly Injected At Different Injection Timings In Single Cylinder Water Cooled Compression Ignition Engine, International Conference On Convergence Of Science & Engineering In Education And Research A Global Perspective In New Millennium, Dayanandsagar College Engineering, Bangalore, Karnataka, pp 118, 21-23 April 2010
100.	Saravana Bavan D, G.C. Mohan Kumar, Modern Aspect of Natural Fibre Composites in the Competitive Field of Structures, International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium- (ICAMB-2009), VIT University, Vellore, Tamil Nadu, India, 14 -16 December 2009.
101.	G. Manavendra, S. Kumarappa, G. C. Mohan Kumar, Experimental Investigation of Mechanical Properties of Areca Fiber Reinforced Phenol-Formaldehyde Composites, International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium- (ICAMB-2009), VIT University, Vellore, Tamil Nadu, India,14 -16 December 2009.
102.	Bharath K.N, R. P. Swamy, Manavendra G., G. C. Mohan Kumar, Rajesh A.M., Investigation on the Effect of Hybridization on Bending Properties for Various Weight Fractions of Natural Fiber Composites, International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium- ICAMB, VIT University, Vellore, Tamil Nadu, 14 -16 December 2009.
103.	G. Manavendra, S. Kumarappa, G. C. Mohan Kumar, Study of Mechanical Properties of Areca and Glass Fibers Reinforced Phenol-Formaldehyde Composite, International Conference on Frontiers in Design & Manufacturing Engineering (ICFDM 2008), School of Mechanical Sciences, Karunya University Coimbatore, India, 1-2 December 2008
104.	G. Manavendra, D. Ramesh Rao, G. C. Mohan Kumar, S. Kumarappa, Experimental Study of Vibration Characteristics of Areca Fiber Reinforced Phenol-Formaldehyde Composites, International Conference on Frontiers in Design & Manufacturing Engineering (ICFDM 2008), School of Mechanical Sciences Karunya University Coimbatore, India, 1-2 December 2008
105.	G.C. Mohan Kumar, A Study of Short Areca Fiber Reinforced P.F. Composites, International Conference on Mechanical Engineering, World Congress on Engineering, Imperial College, London, U.K., 2-4 July 2008.
106.	G. C. Mohan Kumar, A Study of Short Areca Fiber Reinforced P.F. Composites, International Conference on Materials for the future, International Conference on Materials for the future, Government Engineering College, Trissur, Kerala, 17-19 Jan 2008
107.	M.S. Raviraj, G.C. Mohan Kumar, Materials and Micromechanics: Research and Challenges, International Conference on Materials for the Future, Government Engineering College, Trissur, Kerala, 17-19 Jan 2008
108.	S.R. Venkatesh, G.C. Mohan Kumar, Computer-aided Manufacturing Technique to optimize Foundry moulding process, International Conference of Advanced Design and Manufacturing, Setu Institute of Technology, Madurai, Tamilnadu, 9-11, October 2007
109.	L. Girisha, G.C. Mohan Kumar, Stress Analysis of Bolted Joints used in Gas Turbine Engine Casing, National Conference on Recent Advances in Design Engineering, (RADE 2007), Dept. of Mech. and Manufacturing Engineering, Manipal Institute of Technology, Manipal, Paper No. FEA – 01, 22-24 February 2007
110.	G. Manavendra, D. Ramesh Rao, G. C. Mohan Kumar, S. Kumarappa

	Experimental Study of Vibration Characteristics of Areca Fiber Reinforced Phenol-Formaldehyde Composite, All India Seminar on Advances in Tribology & Maintenance, Medi-Caps Institute of Technology & Management, Indore, 24-25 Dec 2007
111.	M. Prasanna Kumar, G.C. Mohan Kumar, K. Sadashivappa, Wear Characteristics of Garnet particles reinforced Zinc Aluminum alloy metal matrix composites, International Conference on Advances in Mechanical Engineering, Jamia Millia Islamia, New Delhi 20-21 Jan 2006
112.	S.R. Venkatesh, G. C. Mohan Kumar, Vacuum Assisted Resin Transfer molding for Natural Hybrid Polymer Composite Material, International Conference on Human- Machine Interfaces, Indian Institute of Science and JNN College of Engineering, Shimoga, DEC 2004
113.	G. C. Mohan Kumar, Characteristics of Short Areca Fiber Reinforced P.F. Composites, International Conference on Recent Advances in Composite materials, Institute of Technology, Banaras Hindu University, Varanasi, India, Proc. Pp.42-48, 17-19, Dec 2004
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116.	Mohan Kumar G.C. Raamchandran J., In-vivo Tooth and Bone Strain Measurement, 15th International Conference of Biomedical Engineering, Coimbatore Institute of Technology, Coimbatore TN India, 12-14 December 1996
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	Publications in National Conference Proceedings 1-Aug-2021
Sl. No	**Particulars of publications**
1.	G. C. Mohan Kumar, *Innovations in Mechanical Engineering; History to Recent*, Two days workshop on Recent Advances in Mechanical Engineering, Beary's Institute of Technology, Mangalore, India, 15-16, April 2019
2.	G. C. Mohan Kumar, *Applications of Mechanical Design in Biomechanics and Engineering*, Two days' workshop on Recent Advances in Mechanical Engineering, Beary's Institute of Technology, Mangalore, India, 15-16 April 2019.
3.	Saravana Bavan D., G. C. Mohan Kumar, *A Study of Mechanical and Morphological Properties of Natural Fibers Reinforced Epoxy Polymer Composites,* 5th National Conference on Plastic and Rubber Technology, Sri Jayachamarajendra College of Engineering, Mysore, India, 25-26 April 2011
4.	Syed Fahemullah G. C. Mohan Kumar, *Heat Transfer Analysis in Unidirectional Fibre Reinforced Composite Using Finite Element Method*, 5th National Conference on Plastic and Rubber Technology, Sri Jayachamarajendra College of Engineering, Mysore, India, 25-26 April 2011
5.	Kamalbabu P. G. C. Mohan Kumar, *Various Aspects in Extrusion of Biocomposite Materials: A Review*, 5th National Conference on Plastic and Rubber Technology, Sri Jayachamarajendra College of Engineering, Mysore, India, 25-26 April 2011
6.	Saravana Bavan D, G. C. Mohan Kumar, *A Novel Decorticator Design for Natural Plant Fibres,* National Conference on Design and Manufacturing, Indian Institute of Information Technology Design and Manufacturing, Kancheepuram, IIT Madras Campus, 27-28 May 2011
7.	Patel C. H., G. C. Mohan Kumar, Ravindra B. S., *Low-Cost Automation for CNC Machining Center*, National Conference on Emerging Trends in Mechanical Engineering M S Ramaiah Institute of Technology, Bangalore, 8-9 June 2011
8.	Saravana Bavan D, G. C. Mohan Kumar, *Characterization and Effect of polymers in Natural fiber composites*, 3rd National Symposium for Materials Research Scholars, Indian Institute of Technology Bombay, Mumbai, India, 7 – 8 May 2010
9.	Ganesh D. B., G.C. Mohan Kumar, B. M. Kulkarni, S. Kumarappa, *Characterization of Biodiesel Produced from Acid Oil: A By-product of Vegetable Oil Refinery,* National Conference on Modern Trends in Mechanical Engineering, MTME-2010, Institute of Engineers (India), Mysore Local Center, 24-25 September 2010
10.	Ganesh D. B., G.C. Mohan Kumar, B. M. Kulkarni, S. Kumarappa, *Performance Evaluation And Emission Characterization of Diesel Engine Operating on Biodiesel Produced From Acid Oil: A By-product Of Vegetable Oil Refinery,* 21st National Conference On IC Engines & Combustion, BIET, Davangere, Karnataka, pp 211-220, 10-12 December 2009
11.	Saravana Bavan D, G. C. Mohan Kumar, *Bio-Composites: An Over View and Recent Trends in Applications*, National Conference on Recent Innovations in Design & Analysis, Government College of Engineering, Tirunelveli, Tamil Nadu, India, 18 -March 2009

12.	Saravana Bavan D, G. C. Mohan Kumar, *Novel Bio-composites in Design of Auto Components and Materials,* National Conference on Design and Manufacturing Issues in Automotive and Allied Industries, Indian Institute of Information Technology Design & Manufacturing, Kancheepuram, IIT Madras, Chennai, Tamil Nadu, India,10-11 July 2009
13.	Saravana Bavan D, G. C. Mohan Kumar, *Improved Mechanical Properties of Natural Fiber Composites,* National Conference on Recent Trends in Advanced Materials (RTAM-2009), KVG College of Engineering, Sullya, Karnataka, India, 18 December 2009
14.	Madhusudan, G. C. Mohan Kumar, Narendranath S., *Study of Fluid Behavior In Centrifugal Casting,* National conference on Recent Trends in Manufacturing Technology (RTMT-09), Anna University Chennai, 6&7 March 2009
15.	Madhusudan, G. C. Mohan Kumar, Narendranath S., Understanding Of Fluid Behaviour In Partially Filled Rotating Cylinder, National Conference on New Advances in Thermal, Design, Materials and Manufacturing Engineering-(NATDMME 09), March 05-07, 2009
16.	G. Manavendra, S. Kumarappa, and G. C. Mohan Kumar, *Study of Mechanical Properties of Areca Fiber Reinforced Phenol-Formaldehyde Composite,* National Conference on Eco-friendly Plastics and Rubber Systems, (MACRO-2008), SJCE, Mysore, India
17.	Mohan Kumar G.C. *Natural Fiber Reinforced Composites,* National Conference on Eco-friendly Plastics and Rubber Systems, (MACRO-2008), SJCE, Mysore, India
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20.	G. C. Mohan Kumar, Study of Areca Reinforced Maize And Phenol-Formaldehyde Composites, National Conference on Composites, University BDT College of Engineering, Davangere OCT 2007
21.	S.R. Venkatesh and G. C. Mohan Kumar, *Development c,* National conference on development of Advanced composite components in Aerospace and automobile applications, Bapuji Institute of Engineering and Technology, Davangere FEB 2007
22.	S.R. Venkatesh and G. C. Mohan Kumar, *Development In Lean Manufacturing Enterprises*, National conference on development of Advanced composite components in Aerospace and automobile applications, Bapuji Institute of Engineering and Technology, Davangere FEB 2007
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	National conference on development of Advanced composite components in Aerospace and automobile applications, Bapuji Institute of Engineering and Technology, Davangere FEB 2007
24.	S.R. Venkatesh and G. C. Mohan Kumar, *Development Of Methods Implementation Of TQM manufacturing*, National conference on development of Advanced composite components in Aerospace and automobile applications, Bapuji Institute of Engineering and Technology, Davangere, February 2007
25.	S.R. Venkatesh and G. C. Mohan Kumar, *Quality Management In Engineering Education; Building Excellence And Equality In Student Performance,* XXXVI Indian Society for Technical Education Annual convention, Bannari Amman Institute of Technology, Satyamangalam, Tamilnadu, Pp.14-16, DEC 2006
26.	S.R. Venkatesh and G. C. Mohan Kumar, *Building Excellence And Equality In Student Performance Quality Management In Engineering Education*, XXXVI Indian Society for Technical Education Annual convention, Bannari Amman Institute of Technology, Satyamangalam, Tamilnadu, Pp.14-16, DEC 2006
27.	S.R. Venkatesh and G. C. Mohan Kumar, *International Standard For Quality Comparison: In View Of Globalization* National conference on Emerging issues and impurities od consumerism in of globalized Economy, JNN College of Engineering, Shimoga, India, November 2006
28.	S.R. Venkatesh and G. C. Mohan Kumar, *Stress Analysis Of Complex Foundry Castings,* National conference on Mechanical engineering NATCON.ME 2005, Gousia College of Engineering, Ramanagaram, Bangalore, March 2005
29.	S.R. Venkatesh and G. C. Mohan Kumar, *Recent Developments In Measurements,* National conference on Mechanical engineering NATCON.ME 2005, Gousia College of Engineering, Ramanagaram, Bangalore, March 2005
30.	S.R. Venkatesh and G. C. Mohan Kumar, *Recent Trends In Solidification,* National conference on recent trends in mechanical engineering README 2005, P.A. College of Engineering, Mangalore December 2005
31.	S.R. Venkatesh and G. C. Mohan Kumar, *Recent Developments In World-Class Manufacturing*, National conference on recent trends in mechanical engineering README 2005, P.A. College of Engineering, Mangalore December 2005
32.	S.R. Venkatesh and G. C. Mohan Kumar, *Excellence Through Total Productive Maintenance To Increase Overall Equipment Effectiveness,* National conference on recent trends in mechanical engineering README 2005, P.A. College of Engineering, Mangalore December 2005
33.	S.R. Venkatesh and G. C. Mohan Kumar, *Prediction Behaviour Of Liquid Metal In A Mould Cavity,* National conference on recent trends in mechanical engineering README 2005, P.A. College of Engineering, Mangalore December 2005
34.	S.R. Venkatesh and G. C. Mohan Kumar, *Total productivity in Manufacturing in Industries,* National Conference On New Growth In The Context Of Globalization, Lessons for India, JNN College of Engineering, Shimoga, India, Pp. 21-22, October 2005

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36.	S.R. Venkatesh and G. C. Mohan Kumar, *Simulation of Complex Foundry Castings,* National Conference on Geometry, Analysis, Fluid Mechanics & Computer Allocations, Kuvempu University, Shankaragatta, India, December 2004
37.	S.R. Venkatesh and G. C. Mohan Kumar, *Total Productivity Through Agile Manufacturing,* Recent Advances in Manufacturing Engineering RMIME-2004, National Engineering College, KR Nagar, Kovilpatti, Tamilnadu, January 2004
38.	G. C. Mohan Kumar, *Natural Fibres and their Composites,* Workshop on Natural Fibers, IIT, Madras, January 2002.
39.	Musloni Iqbal, G. C. Mohan Kumar, Sood, A. Rajkumar, *Three-Dimensional Stress Analysis of Mandibular Carious Tooth- A finite Element Study,* 9th Conference of Indian Pedodontics Society, Mumbai, 1999
40.	G. C. Mohan Kumar, Joji Markose, Suresh Sajjan, *Computer-Aided Their Dimensional Finite Element Analysis of Alveolar Bone in Tooth Supported Denture,* Conference of Indian prosthodontics society, Indian Institute of Science, Bangalore, 28-29, Nov 1998.
41.	G. C. Mohan Kumar, *Image Processing of Dento Impressions,* National Conference On Engineering Graphics And Its Applications", KLEs College of Engineering, Belgaum, India, Nov 1998
42.	G. C. Mohan Kumar, Raamachandran J., *Stresses Induced by Endodontic stabilizers- A photoelastic study,* 5th National Institute of Biomechanics, Indian Institute of Technology, Madras, Feb. 1996.
43.	G. C. Mohan Kumar, Raamachandran J., *Computer-Aided Occlusal Contact Stresses; An In-Vivo Experimental Study On Orthodontic Patients,* Conference on Engineering applications of solid Mechanics, Indian Institute of Technology, Madras, Dec. 1995
44.	Kishen A., Parameswaran A., G. C. Mohan Kumar, Raamachandran J., *Stress Distribution Pattern In A Single-Rooted Tooth - A Two-Dimensional Photoelastic Study,* All India Inter Dental Scientific Meet, Madras, India, 1994
45.	Kishen A., Parameswaran A, G. C. Mohan Kumar, Raamachandran J., Stress distribution pattern of a single-rooted tooth - photoelastic and strain gauge analysis, 9th Annual conference of Federation of Operative Dentistry of India, Calcutta, 1994.
46.	G. C. Mohan Kumar, Raamachandran J., *Automated Photoelastic Investigations of & Human Mandible for Stresses Induced by Orthodontic Forces,* National Symposium on Structural Mechanics, Indian Institute of Science, Bangalore, pp.158-164, 1994
47.	G. C. Mohan Kumar, Raamachandran J., *Measurement of Principal Stresses Using Absolute Retardation in Photoelasticity Using Image Processing,* XXI Symposium on Optics, IIT, Madras, Feb. 1994
48.	G. C. Mohan Kumar, Raamachandran J.,

	Computer-aided Occlusal Contact Stresses; An In-Vivo Experimental Study On Orthodontic Patients, Conference on Engineering applications of solid Mechanics, Indian Institute of Technology, Madras, Dec. 1995

	List of MTech Thesis guided		
Sl. No	**Candidate/ Reg No**	**Thesis Title**	**Work carried out at**
1.	VIPUL KUMAR M. D. 192MD009	Modification of gear tooth lewis form factor for a spur gear tooth with a hole	NITK Surathkal
2.	BHARAT M NAMBIAR 192MF003	3D printing of polymer-based spur gear and its analysis.	NITK Surathkal
3.	BILAL BASHEER C.P. 182MF006	Material Optimization of Spur Gear Tooth	NITK Surathkal
4.	VAMSI KRISHNA REDDY K 182DP007	Conversion of interstage connectors of a 2- stage turbocharger into plastic Material	NITK Surathkal
5.	YOGESH NANAWARE 172DP006	Experimental determination of dynamic friction coefficient of soft viscoelastic materials	NITK Surathkal
6.	VIPIN DAS 172MF013	Optimization of transport setups in Volvo group trucks operations	Volvo Group Trucks Operations GTO, Bangalore
7.	AMAL GEORGE 16MF03F	Study on the effect of adding mass in stability of rotating composite shaft using modal analysis	NITK Surathkal
8.	VIJITH S 16DP13F	Influence of Strontium Modification in castings of AlSiMg on Microstructure and Porosity	NITK Surathkal
9.	LAXITH GOYEL 15DP08F	Design Optimization Of A Toggle Mechanism Circuit Breaker	GE Energy Connections Hyderabad
10.	ABEESH KIRAN A 14DP01F	Design of Endurance Test Rig for Aircraft Hydraulic Actuator.	NITK Surathkal CMTI Bangalore
11.	HARIKUMAR M 14DP06F	Analysis of Molten Profile Produced During Vacuum Atomization Technique.	NITK Surathkal
12.	DEEPAK DESHMUK 13DP02F	Design and Development of Aircraft Pump Test Rig	CMTI Bangalore
13.	K RAJASHEKAHRA REDDY 13DP06F	Experimental study on Realization of Polymeric Dry Electrodes for Bio-potential Measurements	CMTI Bangalore
14.	URMIRANJAN BARIHA 13MF15F	Design and Fabrication of Hot Press	NITK Surathkal
15.	JYOTI GAUTAM 12MF08F	Analysis and simulation of limiting value of sprue radius against leakage in plastic injection molding	NITK Surathkal
16.	PRAVEEN T 11MF08F	Mechanical properties of Corrugated core polymer matrix Composites	NITK Surathkal

17.	MAHESH KUMAR K 11MC10F	Thermal error compensation of a CNC machine tool for optimized positioning accuracy	ACE Manufacturing Systems Bangalore
18.	MOHAN KUMAR O 11MC12F	Surface texture measurement and characterization using machine vision	CMTI Bangalore
19.	Usha S MC10F01 MTech(Res)	Through Focus Imaging Technique for NanoScale Dimensional Analysis	CMTI Bangalore
20.	SREERAJ A S 11MC19F	Behavioural characteristics of sinusoidal corrugated cantilever beam under transverse loading using FEM	Fluid Control Research Institute Kanjikode, Kerala
21.	SANDEEP S 10MC18F	Blind Assist Obstacle device with object identification	NITK Surathkal
22.	NAVYA K T 10MC13F	Design of Hardware for Modifying Encoder Feedback Pulses for Adaptive Control Applications	CMTI Bangalore
23.	ANIL KUMAR SINGH 10MC02F	Human Iris recognition for Biometric Identification and reconstruction using Lifting scheme for secure data storage and Transmission	NITK Surathkal
24.	YESHWANTH S 10MC26F	Condition Monitoring of Clutch for wear and Remaining Useful Life Estimation	KPIT Cummins Infosystems Limited Pune
25.	BAMMIDI HEMACHALAM 10MF01F	Deterministic Surface Roughness Generation by using Micro EDM	CMTI Bangalore
26.	ATMA SUDHIR SHETTY MF09F01 MTech (Res)	Characterization of the friction stir welded Al-4.5Cu Alloy Composites	NITK Surathkal
27.	PATEL C H 09MC16F	Low-Cost Automation for CNC Machining Centre	ACE Manuf. Systems Bangalore
28.	SAGAR NADUVINAMANI 09MC23F	Design of Auto Changer for CNC Machining Centre	ACE Manufacturing Systems Bangalore
29.	DASHARATH S M 09MC03F	Improvement of Abrasive Flow Finishing by rotation of the workpiece	CMTI Bangalore
30.	ALI SABAH AL-TURAIHI 09MF02F	Analysis and Design of Cold Rod Extrusion	NITK Surathkal
31.	SYED FAHEEMULLA R 09TH13F	Thermal Behaviour of Fibre-reinforced composite	NITK Surathkal
32.	DAVIDA RAY REANG 07MF01F	FEM Modelling for Micro-cutting in Metals	NITK Surathkal
33.	HANUMANTHAPPA T 4BD02MMD05	Design of Agitator blades for life used in Gold mines	BIET Davanagere
34.	PRAVEEN KUMAR M 4BD05MMD10	Experimental investigation of mechanical properties of low-density fiber composites	BIET Davanagere
35.	SEETHARAM REDDY 4BD05MMD14	Bird impact analysis for aircraft applications	BIET Davanagere
36.	MAHABOOB TABRIZ 4BD05MMD05	Design and optimization with static structural analysis of integrated shelter and common platform for weapon locating radar.	BIET Davanagere
37.	LOHITH B H 4BD04MMD06	Analytical and finite element analysis of micro capacitive accelerometer.	BIET Davanagere

38.	LINGARAJ S C 4BD04MMD05	Coupled fluid-structure-interaction analysis of a hollow beam model.	BIET Davanagere
39.	ABHINANDAN S KABBUR 4BD04MMD01	Finite element analysis of thin-walled laminated composite beams	BIET Davanagere
40.	GIRISH L 4BD02MMD03	Stress analysis of bolted joints used in Gas ırbines engine casings	BIET Davanagere & GTRE Bangalore
41.	CHANDRASHEKAR KM 4BD03MMD02	Estimation of burst margin in Gas Turbine discs	BIET Davanagere & GTRE Bangalore
42.	CHANDRASHEKAR MS 4BD03MMD03	Finite element analysis of pressure sensor corrugated diaphragms	BIET Davanagere
43.	SHASHIDHAR S 4BD02MMD14	Design and analysis of MEMs microstructure for the application of thermal IR detectors	BIET Davanagere & ISRO Bangalore
44.	MANJUNATH B 4BD02MMD08	Evaluation of properties of Ti-6Al-4AV alloys used in the realization of propellant tanks for spacecraft applications	BIET Davanagere & NAL Bangalore
45.	NULIVEDA MURTHY 4BD02MMD13	A study on formability of standard honeycomb cores and development of new elastic cores	BIET Davanagere

	List of BTech Project Work Guided at NITK Surathkal		
Sl. No	Year	Reg No / Candidate	Thesis Title
1.	2021	171ME131 Jijiss Basil Joy 171ME145 Navneeth Rajesh	Finite element analysis of the human elbow joint after non-displaced radial head fractures
2.	2021	171ME113 Arpitha Y 171ME161 Rohan George	Finite element analysis of the human shoulder joint, after non-displaced proximal humeral fractures
3.	2020	16ME115 Ashish Poonia 16ME149 Omkar Prabhu	Finite Element Analysis of a Human Knee Joint
4.	2019	16ME206 Abishec Shah 16ME239 Rakshan Channe	Processing and characterization of polyvinyl alcohol and Polyvinylpyrrolidone Hydrogel
5.	2018	14ME129 Illa Sai Srujana 14ME214 Azhar N 14ME235 Kumar Swamy 14ME251 Prasad Kamath 14me252 Prashant V S	Finite element analysis of Knee joint in twist
6.	2017	13 M130 Codanda Devaiah 13 M111 Aksh kidiyur Satish 13 M249 Parchit Kumar 13 M221 Athul Kumar	Experimental and numerical study of one probe system to measure skin stiffness
7.	2016	12 M030 Bharath H B 12 M040 Darshan C P 12 M053 Hanumenesh 12 M136 Suamn A L 12 M146 Vinay B U	Development and study of recycled HDPE Sand composites
8.	2015	11 M204 M Dhruv Chand 11 M206 Navneeth N Prabhu 11 M237 Safwan CH	Universally compatible add on to power any manual wheelchair

		11 M256 Srikant Sagar S R 11 M261 Sushob Ranjith	
9.	2014	10 M175 Mohd Aaquib 10 M221 Prince Kumar 10 M224 Rahbare Islam N 10 M230 Rohit Ranjan P 10 M252 Sourab Debbarna 10 M275 Yogesh Kumar	Stress analysis of 3D dental archwire
10.	2013	09 M111 Amitk kumar pandey 09 M118 Ankur Kumar 09 M128 Brij Mohan Singh 09 M165 Karan 09 M265 Urgasen Bachhor	Design and development of permanent magnet linear generator wave energy converter
11.	2012	08 M142 Shashank KS 08 M143 Shasahnk Nagesh 08 M221 Deepak Kumar 08 M224 Gujjan Arya 08 M261 Vikram Rout	Analysis and comparison of spur gear hardness for different types of heat-treated steel
12.	2012	08 M202 Abishek S 08 M207 Ankit Verma 08 M209 Ashutosh Kumar 08 M236 Mohammed M 08 M256 Sujith Kumar	Fabrication and performance analysis of low-cost parabolic trough solar collector
13.	2011	07 M129 Debdarshi Datta 07 M136 Jjaju A R 07M 201 Mitul S Ayyod 07M 230 Sadrjoshi Neeraj	Power analysis of horizontal axis micro wind turbines
14.	2010	06 M236 Sripati H S 06 M241 Srikar D S 06 M234 Sharan U R 06 M231 Samart Pandey	Design Assembly and analysis of The pedal-powered skateboard
15.	2009	05 M231 Srinidhi V Katti 05 M222 Vishwas S 05 M240 V Verchasvi 05 M245 Vinod Kumar K 05 M214 Rahul Prabhakaran	Design and fabrication of equipment to separate fiber from areca nut husk
16.	2009	05 M106 Ajay Kumar K S 05 M107 Amarjit Kumar 05 M131 Goutham K S 05 M147 Naveen Kumar B 05 M216 Raju E	Photoelastic stress analysis of second metatarsal bone