

Dr. Gopalakrishna Keshava Narayana

42, NADASHREE, 3RD CROSS, ESWARA LAYOUT, 7TH PHASE, JP NAGAR, BENGALURU-560062

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Personal Profile



Fathers Name: Keshava Narayana

Mothers Name: B.V.Rathnamma

AGE: 57 Yrs

DOB: 30th October 1962

Blood Group: B+

Marital Status: Married, Children : 2

Nationality: Indian, Hindu

Career Objective/Summary

To establish best practices and procedures and work hard for the development of the organization/institution

1st Nov 2017-till date

Principal , Jyothy Institute of Technology

Work Experience

1st July2007- 31st October 2017

Associate Director, Centre for Emerging Technologies, Jain University

- Research and product development funded by National Agencies
- Coordinate centre activities
- Team Lead for consultancy

Associate Dean, School of Engineering and Technology, Jain University

- Timely Revision of curriculum to connect with the industry need
- Best practices & procedures for the smooth running of the institution
- Promote student and staff funded projects
- Effective and enthusiastic teaching

April 2000 – June 2007

Professor and Head, K.S. Institute of Technology, Bangalore

- Set high standards of ethics and morality among staff and students
- Dedicated service
- University Liaison

- R&D lab of Mechanical Engineering Department

June 1986 - March 2000

Assistant Professor, SJC Institute of Technology, Bangalore University

- Coordinator, MODROBS
- Effective Teaching and emphasis on mini projects

Education

April 2012 Doctorate NAL-VTU

Ph.D-Material Tribology

May 1993 Masters NIE, Mysore University

M Tech- PEST- Distinction

1985 Graduation AIT, Mysore University

BE- Mechanical Engineering- Distinction

Achievements

Publications:

[Moems Based Micro Accelerometers Sensor Sensing Structures](#)

Sundar Subramanian, Thangadurai N, K Gopalakrishna
International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue 1, **May 2019**

[Applications of natural fibers and its composites: An overview](#) 73 2016
MR Sanjay, GR Arpitha, LL Naik, K Gopalakrishna, B Yogesha
Natural Resources 7 (03), 108

[Potential applications of cellulose and chitosan nanoparticles/composites in wastewater treatment: A review](#) 71 2016
S Olivera, HB Muralidhara, K Venkatesh, VK Guna, K Gopalakrishna, ...
Carbohydrate polymers 153, 600-618

[Plating on acrylonitrile—butadiene—styrene \(ABS\) plastic: a review](#) 33 2016
S Olivera, HB Muralidhara, K Venkatesh, K Gopalakrishna, CS Vivek
Journal of materials science 51 (8), 3657-3674

[Design and development of an advanced linear reciprocating tribometer](#) 12 2009
TNN C.B. Mohana,*, C. Divakarb,1, K. Venkatesha, K. Gopalakrishnaa, K.S ...

wear 267, 1111-1116

Studies on Mechanical Properties of Banana/E-Glass Fabrics Reinforced Polyester Hybrid Composites 7 2016

Y Sanjay, Arpitha, Laxmana Naik, Gopalakrishna
J. Mater. Environ. Sci. 7 (9), 3179-3192

Performance Evaluation of an IC Engine using Oxyhydrogen as a fuel 6 * 2015

Supplement
AR gopalakrishna K
Journal of Scientific & Industrial Research, 74, 176-179

A review on mechanical and tribological behaviors of nickel matrix composites 5 2016

BKA Kumar, MG Ananthaprasad, K GopalaKrishna
Indian Journal of Science and Technology 9 (2)

Review on Mechanical Properties of Sisal and Banana Reinforced Composites 5 * 2015

BY Laxmana Naik, K Gopalakrishna
International Journal of Engineering Research and General Science 3 (5), 176-79

Tribological studies of polymer based ceramic—metal composites processed at ambient temperature 4 2009

KSML K. Gopala Krishnaa, C. Divakarb,*, K. Venkatesha, C.B. Mohana
wear 266, 878—883

Experimental Investigation on Mechanical Properties of Hemp/E-Glass Fabric Reinforced Polyester Hybrid Composites 3 2016

MR Sanjay, GR Arpitha, LL Naik, K Gopalakrishna, B Yogesha
Journal of Materials and Engineering Structures «JMES» 3 (3), 117-128

Bulk temperature estimation during wear of a polymer composite pin 3 2010

KSML K. Gopala Krishnaa, C. Divakarb,*, K. Venkatesha, C.B. Mohana
WEAR 268, 346—351

Thermal performance of heat sink with fluid pockets with high power light emitting diode 2 * 2017

KMS Sangmesh, K. Gopalakrishna, Manjunath S H, Krishna Venkatesh
International Journal of Automotive and Mechanical Engineering 14 (4), 4846-62

Tribological studies on effect of mixture of fillers in polystyrene matrix 2 2014

composites

G Keshavanarayana, C Divakar, K Venkatesh, CB Mohan, KGL Bhatta,
...
Journal of Thermoplastic Composite Materials 27 (9), 1192-1208

Experimental Investigation on HSFP using MWCNT based nanofluid for high power LED applications 1 * 2018

GCV sangmesh, gopalakrishna K, Manjunath SH, Kadirgama, kathyayini, M Samykano
Journal of Mechanical Engineering and Sciences 12 (3), 3852-3865

Effect of Cryogenic Chill on Dendrite arm spacing, Ultimate tensile strength and Hardness of ASTM A 494 M Grade Nickel alloy Metal Matrix Composites 1 2017

BKA Kumar, MG Ananthaprasad, K GopalaKrishna
Materials Today: Proceedings 4 (10), 10769-10778

Tensile and flexural properties of Polypropylene Composites reinforced with raw bagasse 1 * 2017

NR Manikandan Elangovan, Vijayakumar Guna, Gopalakrishna Keshavanarayana
Sugar Tech 20 (4), 454-463

Tensile Property Evaluation of Sisal—Glass Fiber Reinforced Polymer Based Composites 1 2017

LL Naik, HM Kavya, K Gopalakrishna, B Yogesha
International Journal of Composite Materials 7 (3), 77-81

Design and development of a gauging system for constant velocity ball cage component of constant velocity joint assembly 1 2016

P Swaminathan, GK Narayana
Proceedings of the Institution of Mechanical Engineers, Part B: Journal of ...

Development of novel additives for slide way lubricants 1 2015

CB Mohan, K Venkatesh, C Divakar, K Gopalakrishna, L Murali, ...
Industrial Lubrication and Tribology 67 (2), 110-118

Performance Studies on cryogenic treated carbidecutting tool for AISI304 steel 2018

GCV Nagraj Patil, Gopalakrishna K, Sangmesh , K Sudhakar
Journal of Mechanical Engineering and Sciences 12 (3), 3927-3941

Heat transfer enhancement in a high power LED using heat sink with liquid 2018

pockets

VG Sangmesh B Gopalakrishna K Manjunath S H M Narendra Kumar
JOURNAL OF SCIENTIFIC AND INDUSTRIALRESEARCH 4, 4

-
- Heat Transfer Enhancement in a High Power LED Using Heat Sink with Liquid Pockets 2018
B Sangmesh, K Gopalakrishna, SH Manjunath, MN Kumar, GV Kumar
NISCAIR-CSIR, India
- Experimental Studies on Vataharanaloha-an Ancient Aircraft Material 2018
A Padmashree, CB Mohan, K Gopalakrishna
NISCAIR-CSIR, India
- Thermal performance of heat sink with fluid pockets for high power light emitting diode 2017
International Journal of Automotive and Mechanical Engineering 14 (4), 15
- Effect of Cryogenic Chill on Mechanical Properties of ASTM A 494 M Grade Nickel Based Alloy Metal Matrix Composites 2016
AKB Kenchanahalli, AM Gangadharaiyah, G Keshavanarayana
Materials Research 19 (6), 1304-1309
- Action of Cryogenic chill on Mechanical properties of Nickel alloy Metal Matrix Composites 2016
BKA Kumar, MG Ananthaprasad, K GopalaKrishna
IOP Conference Series: Materials Science and Engineering 149 (1), 012116
- Physical and Water Absorption Behaviour of Sisal — Glass Fiber Reinforced Polymer based Composites 2016
PWABSGFRP Composites
American Journal of Materials Science 6 (4), 91-94
- Effect of Cryogenic Chill on Mechanical Properties of ASTM A 494 M Grade Nickel based alloy Metal Matrix Composites 2016
AP Anil kumar, Gopalakrishna
Materials Research
- Development of novel additives for slide way lubricants 2016
TNN C.B. Mohan, C.B. C. Divakar, K. Venkatesh, K. Gopalakrishna, K.S. Mahesh ...

Industrial lubrication and tribology 67 (2)

Effect of heating of test pin above ambient temperatures on tribological behavior of two-phase and three-phase polystyrene composites 2015

V Krishna, G Keshavanarayana, MC Bhoganarasimhaiah, ...
Journal of Thermoplastic Composite Materials 28 (11), 1482-1495

Coolant lubricity and coolant-lube compatibility with regard to slideway behavior 2008

CB Mohan, K Gopalakrishna, KS Mahesh Lohith, K Venkatesh, C Divakar, ...
Journal of the Brazilian Society of Mechanical Sciences and Engineering 30

Coolant Lubricity and Coolant-Lube Compatibility with Regard to Slideway Behavior 2008

MCBGKMLKSK Venkatesh
Journal of Brazilian Society for Mechanical sciences and Engineering, 281-285

Membership of Professional Bodies:

- Fellow, Institution of Engineers-F117163-8
- Fellow, Indian Institute Production Engineers-SLF-5966
- Life Member, Indian Society of Technical Education-LM4816
- Member, Indian Society for Advanced Materials and Process Engineering-L613
- Life Member, Tribology Society of India-3753

Member of the Governing Council

A.J. Institute of Engineering and Technology, Mangalore- VTU Nominee

Journal Referee:

Journal of Thermoplastic Composite Materials since 20-8-2014

Journal of Industrial Textiles

Tribology in Industry

Doctoral Guidance:

Degree Awarded : Main Guide : 01

: Co-guide : 02

: Thesis Submitted :01

Currently Guiding 2 Doctoral Scholars, 1 MSc Engg by research

Funded Projects:

- A software to generate nanoparticle phase diagram, funded by IEI, 1.1 Lakhs, 3/01/2018
- Development of a coating facility for Nickel and Chromium for ABS Plastic through RP Route - GTRE, DRDO. Completed-Co-PI
- Design and Development of an Autonomous Amphibian Vehicle for Harbor Security Operations, No:DNRD/05/4003/NRB/286/12th FEB2013, Project No: NRB/286/MAR/12-13, Feb12th 2013, Rs 24.23 Lacs-Ongoing-PI
- Feasibility studies on development of surface integrity and strength characteristics of rapid prototyped components to enable their direct application in design and development activities of pay load for space craft, ISRO/RES/3/603/12-13, Feb12th 2013- Co-PI
- Development of Multiwall Carbon Nanotubes-Composites based Nanofluids (Thermal Grease) and their use in heat transfer applications-ISRO-Recommended

Student Projects:

Sponsored projects – KSCST - 2

AICTE (MODROBS)-1-6.36 Lacs-1998

Institutional Projects- 50- In-house

Award winning Projects:

- Nov 19-20th 2009, UMAG (Universal Machine for Agriculture), One in Top 20 , Innovate India, National Technical Competition for Engg Students conducted by NRDC, at IISc.
- Nov 19-20th 2009, Super conductor based rail traction, 4th Place, Innovate India, National Technical Competition for Engg Students conducted by NRDC at IISc.

Books/ Book Chapter:

1.Coauthored a Monograph on Micro Aerial Vehicles released in the **Indian Technology Congress** held at Nimhans Convention Centre on 21st Aug 2014 organized by Institution of Engineers (Book)

2. Recycling of polyethylene terephthalate bottles, Elsevier publications, ISBN: 978-0-12-811361-5, William Andrew Publishers (Book Chapter)

On selection Panel of Other Institutions:

02

Consultancy:

- Team Lead- Titan Jewellery Co, Leading a team of 16 scientists on consultancy projects
- Providing Consultancy in the area of Tribology for Industries/ colleges/Universities
- Assisted KAPTRON Technologies in the wind tunnel experimental techniques and measurements
- Consultant to AVNI Energy Solutions Pvt Ltd, Bangalore

Patents:

- Ultrasensitive array of accelerometer sensor based on optical Nano cavity for automotive applications Application no: 201841038029, Docket No: 72799,08/10/18
- Composite paste to buildup surfaces and the process of making paste No:4903/CHE/2012 Dated: 26th Nov 2012
- Design and development of low cost thermal paste
Regn.No: HQ/IPR/FA/12057/2012 4th Jan 2013
- Development of additive based lubricants for sliding surfaces
Regn.No: HQ/IPR/FA/12059/2012 4th Jan 2013
- Circuitry for optimizing fuel consumption in an internal combustion engine'' NRDC Ref No: IPR/FA/13030/2014,Patent Application No. 3798/CHE/2014 dated 02.08.2014
- Checking guage for a work piece, 2288/che/2014, 08/05/2014

Personal Awards:

Won second place in IDEA contest for patents conducted by **Jain University**, for 'Design and development of a leg operated laptop cooler'. held on 26th April 2013

Overseas Visits:

- Visited Kyoto, Japan to participate in World Tribology Congress 2009
- Led a team of Faculty to Cologne, Germany for tie-up with German Universities in the area of Energy

Software packages known:

- AUTOCAD
- ANSYS
- UGS-Solid edge

Details of guest lecture / invited talks delivered (Resource Person):

- Sahyadri College of Engineering-Composites
- MITS, Andhra Pradesh-Advanced Materials
- MSRIT- Faculty development programme
- MSRIT- Technical talk on MAVs and many more

Academic Excellence:

- Currently promoting R&D and consultancy in the research centre
- Induction of new University Syllabus, BOE, BOS as Dean
- Worked at various academic capacities-Lecturer, Asst Professor, Professor, Principal-in-Charge, Associate Dean and Associate Director
- Passionate to teach Thermal Engineering courses, Energy Engineering, Production Engineering Courses and Composite Tribology

Projects :[Select]:

- Design and Development of Mulberry Cutting Machine 1996, K.S.C.S.T-UG
- Design and Development of Battery Assisted Bicycle, 1997, K.S.C.S.T-UG
- Design and development of a Universal Machine for Agriculture, UMAG, Featured in Top 20 of Project Competition conducted by National Research and Development Corporation at IISc Bangalore, 2009-UG Project Competition
- Design and Development of “Development and Integration of Heat Pipes for Casted Led Street Light” Joint project with Avni Energy Solutions-Avasarala Automation Technologies- Centre for Emerging Technologies[®], Jain University,2011-PG
- Design and Development of a Heat Sink for 9 Watt MR16 down Light-Joint project with Avni Energy Solutions-Centre for Emerging Technologies[®], Jain University,2011-PG
- A Comparative Study of thermal behavior of A 9 Watt LED lighting system with CNT, Thermoelectric and Fin for Heat Transport- Joint project with Avni Energy Solutions- Centre for Emerging Technologies[™], Jain University,2012-PG
- Formulation and Development of a thermal paste for heat transfer

through CNT route-PG

- Heat transfer studies on thermal heat sink with capillary tubes-PG

Co-curricular Activities:

- Organized Training on Hydraulics and Pneumatics for 3 weeks at FESTO controls India, Bangalore.
- Training on Hydraulics at Bosch Rexroth for three days, Peenya, Bangalore
- Six –Sigma Course at the CET, Jain University

Industrial Training:

- CNC machines programming at CADEM Technologies
- Training on Hydraulics at Bosch-Rexroth, Peenya, Bangalore
- Training on Tribology conducted by VTU.
- Training on six sigma
- Training on IPR and related issues.
- Training on FEA at ANSYS corporation
- Training on Mechatronics at FESTO controls pvt. ltd, Bangalore
- Training on Solar PV Technologies, Power Plants, Economics and related topics at KPC, Bangalore Conducted by Orbutus Consulting Agency, New Delhi

Workshop/Conference/Symposia:

- Attended a talk on PV-Solar-Opportunities by Govindasamy Tamizmani on 13th May 2010 at Jain Global Campus
- One day workshop on White Space Finding at CMS, Near Atria Hotel, Bangalore on 30th April 2010.
- One day workshop on ‘Conservation of energy and Management’ at JSSATE Bangalore 27th April 2010 at Jain Campus J.C.Road, Bangalore.
- Attended a talk on PV by Dr.Joy Mukhopadhyay on 25th April 2010 at Jain Campus, J.C.Road, Bangalore.
- Attended a talk on PV by Dr.S.R.C.Satyanarayana on 24th April 2010.
- One day workshop on Awareness on TEQIP Ph-II at MSRIT, Bangalore on 15th April 2010.
- One day workshop on PV at TUV Rheinland ,Bangalore, on 25th March 2010
- Training on Mechatronics at Festo Didactic Centre Bangalore (15

Hobbies and Interests

Days)

- Workshop on CAED at MCE Hassan, conducted by VTU on 14th Sept 2006.
- Industrial Hydraulics Bosch Rexroth, during Feb 28th to Mar 4th '2006
- Micro & Smart systems during Jan 16th to Jan 21st '2006
- Three-day workshop on Hydraulics and Pneumatics at Mico-Bosch, Bangalore from 29th to 31 Aug 2005.
- 15 day workshop on Intellectual Property Rights at IGIT from 16th April to 5th May 2005.
- Reforms in Conduct of Examination Process, VTU during Apr 4th & 5th '2004.
- Short term training programme on FEM during Oct-Dec '2001
- NBA's Accreditation Awareness Workshop during Oct 5th 2001
- Introduction to Computer graphics during Sep'2001 (one month)
- Diploma in ACAD, Prajwal systems during Oct 2000 to Jan 2001
- Business Pro, Genesis Software solutions during Nov 3rd to Dec 20th, 1999
- Workshop codes of practice in Engg drawing & M/C drawing at PESCE during Nov 13th & 14th '1999
- Modern computational Mathematical techniques to analysis random response data at SJCIT during Aug 16th to Aug 28th 1999
- Fourier Wavelets Analysis in Engg. & Technology at SJCIT during May 19th to May 21st 1999
- Seminar on I.C engine & related fields at BLDEA college of Engg & technology during Nov 22nd & Nov 23rd '97.
- Three day workshop on Agile Manufacturing from 14th to 16th June 1996.
- Introduction to Futurology at UVCE, Bangalore during Apr 11th to Apr 12th '89
- Listening to Music, Singing Songs
- Table Tennis, Chess

Reference

1. Dr. K. Venkatesh

Director , CIIRC, Jyothy Institute of Technology

Address:

#445/A, II Cross, Ideal Homes Township

Rajarajeshwari Nagar, Bangalore-560095

Tel: 09845358417

Email: igit@rediffmail.com

2. Dr. C. Divakar

Scientist (Retired) ,NAL

Bangalore

Mob:09900222463

All the information provided above is true to the best of my knowledge and belief.

Dr. K. Gopalakrishna