

# Dr. Gopalakrishna Keshava Narayana

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

Email: [kgopimn@gmail.com](mailto:kgopimn@gmail.com), [kgopimn@rediffmail.com](mailto:kgopimn@rediffmail.com)

Mobile:09448797660, 08026655974

## Personal Profile



Fathers Name: Keshava Narayana

Mothers Name: B.V.Rathnamma

AGE: 53 Yrs

DOB: 30<sup>th</sup> 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**

## Work Experience

**1<sup>st</sup> July2007- Till Date**

### **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:**

<b>Sl No</b>	<b>Title of the paper</b>	<b>Journal</b>	<b>Impact Factor</b>
1	Design and development of a gauging system for Ball cage component of Constant Velocity joint assembly	Proc. IMechE Part B: J Engineering Manufacture, 1-6, I Mech E 2015 sagepub.co.uk/journalsPermissions.nav, DOI: 10.1177/0954405414563422	1
2	Performance Evaluation of an IC Engine using Oxyhydrogen as a fuel Supplement	Journal of Scientific & Industrial Research, CSIR, INDIA JSIR- 74, 2015	0.7
3	Effect of heating of test pin above ambient temperatures on tribological behavior of two-phase and three-phase polystyrene composites	Journal of Thermoplastic Composite Materials 201X, Vol XX(X) 1-14 sagepub.co.uk/journalsPermissions.nav, DOI: 10.1177/0892705713513288 jtc.sagepub.com 2013	1.25
4	Tribological Studies on	Journal of Thermoplastic	1.25

	Effect of Mixture of Fillers in Polystyrene Matrix Composites	Composite Materials, 00(0) 1–17 2012 sagepub.co.uk/journals DOI: 0.1177/ 0892705712470262	
5	Tribological Studies of Polymer Based Ceramic Metal Composites Processed at Room Temperature”,	Wear, V266, pp 878-883, 2009	2.109 (5 Year avg)
6	Bulk Temperature Estimation of a Polymer Composite Pin	Wear, V 268, pp 346-351, 2010	2.109 (5 Year avg)
7	Coolant Lubricity and Coolant Lube Compatibility with Regard to Slideway Behavior	Journal of the Brazilian Society of Mechanical Sciences and Engineering, V 30, No 4, pp 281-285, 2008	0.22
8	“Design and Development of Advanced Linear Reciprocating Tribometer	Wear, V267, pp 1111-1116, 2009	2.109 (5 Year avg)
9	Development of Novel additives for slideway lubricants	Industrial Lubrication & Tribology Vol.67, Issue .2, 2016	0.5
10	Studies on Wear Behavior of Aluminum and Copper Particulate Filled Polymer Composites	International Conference on Advanced Composites at IISc,2011	
11	Studies on Wear Behavior of Particulate Filled Polymer Composites	World Tribology Congress 2009,Sept 6-11, Kyoto, Japan	
12	The Potential of MEMS in Indian Automotive Sector	National Conference on MEMS , CPRI, Bangalore	
13	A Review of Thermal Management of LED Lighting Systems	National Conference on Thermal Engineering and Allied(NCTAE2012), 20 <sup>th</sup> and 21 <sup>st</sup> January, 2012, GAT Bangalore	
14	A study on integration of acetone charged copper pipes (ACCP) to MR16 indoor lighting solutions	Journal of CPRI Vol. 9, No1, March 2013, Pp.163-168	

- |    |  |  |  |
|----|--|--|--|
| 15 | Heat Transfer Analysis of a 7.5 W LED load with passive and active cooling for constant luminance applications   | CPRI<br>Vol. 9, No4, Dec 2013,<br>Pp.583-592   |  |
| 16 | Review on Mechanical Properties of Sisal and Banana Reinforced Composites  | International Journal of Engineering Research and General Science,<br>Volume 3, Issue 5,<br>September-October,<br>2015<br>ISSN 2091-2730 | 3.843<br>Indexed in<br>Google<br>Scholar,<br>Copernicus,<br>DOAJ,<br>EBSCO,<br>Research<br>Gate,<br>Scribd<br>Springer |
| 17 | Plating of Acrylonitrile-Butadiene-Styrene(ABS) Plastic: A review  | J. Mater. Sc<br>DOI:1007/s 10853-015-9668-7, 2015  |  |
| 18 | Study of Mechanical Properties of Nickle electroplated ABS Plastics developed by FDM Process-Poster Presentation | National Conference on Advanced Functional Materials at D.S. University  | 2015   |

**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

**Journal Referee:**

Journal of Thermoplastic Composite Materials since 20-8-2014

**Doctoral Guidance:**

Currently Guiding five Doctoral Scholars, 3 M.Tech Students

**Funded Projects:**

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

**Books:**

Coauthored a Monograph on Micro Aerial Vehicles released in the **Indian Technology Congress** held at Nimhans Convention Centre on 21<sup>st</sup> Aug 2014 organized by Institution of Engineers

**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:**

- Composite paste to buildup surfaces and the process of making paste  
No:4903/CHE/2012 Dated: 26<sup>th</sup> Nov 2012
- Design and development of low cost thermal paste  
Regn.No: HQ/IPR/FA/12057/2012 4<sup>th</sup> Jan 2013
- Development of additive based lubricants for sliding surfaces  
Regn.No: HQ/IPR/FA/12059/2012 4<sup>th</sup> 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 26<sup>th</sup> 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<sup>®</sup>, 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<sup>®</sup>, 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<sup>™</sup>, 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 13<sup>th</sup> May 2010 at Jain Global Campus
- One day workshop on White Space Finding at CMS, Near Atria Hotel, Bangalore on 30<sup>th</sup> April 2010.
- One day workshop on ‘Conservation of energy and Management’ at JSSATE Bangalore 27<sup>th</sup> April 2010 at Jain Campus J.C.Road, Bangalore.
- Attended a talk on PV by Dr.Joy Mukhopadhyay on 25<sup>th</sup> April 2010 at Jain Campus, J.C.Road, Bangalore.
- Attended a talk on PV by Dr.S.R.C.Satyanarayana on 24<sup>th</sup> April 2010.
- One day workshop on Awareness on TEQIP Ph-II at MSRIT, Bangalore on 15<sup>th</sup> April 2010.
- One day workshop on PV at TUV Rheinland ,Bangalore, on 25<sup>th</sup> March 2010
- Training on Mechatronics at Festo Didactic Centre Bangalore (15 Days)
- Workshop on CAED at MCE Hassan, conducted by VTU on 14<sup>th</sup> Sept 2006.
- Industrial Hydraulics Bosch Rexroth, during Feb 28<sup>th</sup> to Mar 4<sup>th</sup> ‘2006
- Micro & Smart systems during Jan 16<sup>th</sup> to Jan 21<sup>st</sup> ‘2006
- Three-day workshop on Hydraulics and Pneumatics at Mico-Bosch, Bangalore from 29<sup>th</sup> to 31 Aug 2005.
- 15 day workshop on Intellectual Property Rights at IGIT from 16<sup>th</sup> April to 5<sup>th</sup> May 2005.
- Reforms in Conduct of Examination Process, VTU during Apr 4<sup>th</sup> & 5<sup>th</sup> ‘2004.



## Hobbies and Interests

- Short term training programme on FEM during Oct-Dec '2001
- NBA's Accreditation Awareness Workshop during Oct 5<sup>th</sup> 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 3<sup>rd</sup> to Dec 20<sup>th</sup> 1999
- Workshop codes of practice in Engg drawing & M/C drawing at PESCE during Nov 13<sup>th</sup> & 14<sup>th</sup> '1999
- Modern computational Mathematical techniques to analysis random response data at SJCIT during Aug 16<sup>th</sup> to Aug 28<sup>th</sup> 1999
- Fourier Wavelets Analysis in Engg. & Technology at SJCIT during May 19<sup>th</sup> to May 21<sup>st</sup> 1999
- Seminar on I.C engine & related fields at BLDEA college of Engg & technology during Nov 22<sup>nd</sup> & Nov 23<sup>rd</sup> '97.
- Three day workshop on Agile Manufacturing from 14<sup>th</sup> to 16<sup>th</sup> June 1996.
- Introduction to Futurology at UVCE, Bangalore during Apr 11<sup>th</sup> to Apr 12<sup>th</sup> '89
  
- Listening to Music, Singing Songs
  
- Table Tennis, Chess

## Reference

### 1. Dr. K. Venkatesh

Director & CTO, School of Engineering and Technology, Jain University

**Address:**

#445/A, II Cross, Ideal Homes Township  
Rajarajeshwari Nagar, Bangalore-560095

Tel: 09845358417

Email: [igjit@rediffmail.com](mailto:igjit@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**