#### Dr. L. Ravikumar,

Professor, Institutional Coordinator Research and Development Coordinator-TEQIP-III Former HOD-Department of Mechanical Engineering Department of Mechanical Engineering, BMS College of Engineering, Bengaluru-560019.

#### Residential Address:

No 28.A, Shiva krupa, 10 th Main, Hampinagara, RPC layout Vijayanagara, Bangalore-560104

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#### Academic Achievements

- ➤ Advisor R&D BMSCE Institutional Coordinator- Research and Development 2017 to 2020
- Nodal officer –Academic TEQIP-III
- Coordinator TEQIP-II
- Subject Expert –DRDO –CEPTAM Board
- NBA Evaluator
- ➤ HOD Mechanical Engineering(April 2015 to 2017)
- ➤ Member BOG, BMSCE(faculty representative)2013-2016
- Subject expert-Mechanical Engineering-PhD studies, Bangalore University2016-18
- Chairman, BOE, BOS Mechanical Engineering (2015-17),
- ➤ Member LIC, VTU, Belgaum (2010)
- Member BOS Mechanical Engineering. Visveswaraya Technological
   University, Belgaum, Karnataka, 2005-2007
- ➤ Member BOE PG(Machine Design), Bangalore University 2008-2010

- EDUSAT- Invited Lecture-Design of Machine Elements-II
- Member BOS Mechanical Engineering, SIT Tumkur 2008-2009
- Chaired a technical session at an International conference and National Conferences
- Offered faculty position at NIT Surathkal and NIT Jalandhar
- > Invited as judge for the students technical paper presentation at various institutions
- Visiting Student Fellowship, NAL, Bangalore for P.G. Studies, 1994

#### **Administrative Activities at BMSCE**

- ➤ Institutional Coordinator- Research and Development 2017 to till date
- Nodal officer –Academic TEQIP-III
- ➤ HOD-Mechanical Engineering (April 2015-2017)
- Coordinator-II, TEQIP-II
   (Principal Member for The Preparation Of TEQIP Institutional
   Development Proposal (IDP))
- Member For The Preparation Of TEQIP Institutional Concise Proposal(CIP) TEQIP phase1
- ➤ Deputy chief Coordinator for the VTU valuation center 2000,2001, 2007
- Coordinator- Theory examinations: BMS college of Engineering
- ➤ MEMBER BOE, BOS at different universities and Institutes

### Educational Qualification

| SI.<br>No. | University                                | Degree | Year | Field of specialization                           |
|------------|---|--------|------|---|
| 1          | Indian Institute of Technology Kharagpur  | Ph.D   | 2004 | Structural Dynamics<br>(Aerospace<br>Engineering) |
| 1          | Bangalore University                      | M.E    | 1995 | Machine Design                                    |
| 2          | Bangalore University                      | BE     | 1990 | Mechanical<br>Engineering                         |
| 3          | Board of Technical<br>Education Karnataka | DME    | 1986 | Mechanical<br>Engineering                         |

### Employment Records (Starting from present position)

### Academic

| SI.<br>No. | University/College               | Designation         | Period          |
|------------|----------------------------------|---------------------|-----------------|
| 1          |                                  | ICRD                | 2017-till date  |
|            | D.M.O. O. II                     | HoD                 | April 2015-2017 |
| 2          | B.M.S. College of<br>Engineering | Professor           | 2010-till date  |
| 3          |                                  | Associate professor | 2007-2010       |
| 4          |                                  | Assistant Professor | 2004 – 2006     |
| 5          |                                  | Lecturer            | 1994 – 2004     |

### Industrial

| SI.<br>No. | Industry                                     | Designation      | Period    |
|------------|--|------------------|-----------|
| 1          | UCAM Limited, BEL Industrial Area, Bangalore | Trainee Engineer | 1990-1991 |
| 2          | HMT-IV Tumkur                                | G. App. Trainee  | 1991-1992 |

## Research Projects

Total Numbers : SIX (2006-18)

Total amount received : 70.25 lakhs

#### **Research Project ongoing** 2015-2018

- Development of Carbon Fiber Reinforced Plastic (CFRP) torque transmission tube" CVRDE (16.90 Lakhs)
- Performance Studies of Semi Active Journal Bearing (6 lakhs)

#### Research Projects executed 2006-2014

1) Damping and Stiffness Characteristics of Non-Newtonian Fluids in squeeze Film Dampers used as External Damping Medium

Ref No 8023/RID/RPS-15/2011-12

Amount Sanctioned: 10.750Lakhs

 Temperature Effects on Evaluation of Damping and Stiffness Characteristics of Magneto-Rheological Fluids used as External Damping Medium AR & DB File No: DARO/08/1041575/M/I/23-12-2010

Amount Sanctioned: 16.840Lakhs

3) Flutter Instability of Machine Components with/without Flaws Subjected to Follower Loads

AICTE File No: 8023/RID/BOR/RPS-86/2005-06

Amount received: 10 Lakhs

4) Evaluation of Damping and Stiffness Characteristics of Magneto-Rheological Fluids used as External Damping Medium"

No: DARO/08/1041391/M/I 28<sup>th</sup> Dec 2006

Amount received: 9.984 Lakhs

#### Patents Applied

- Bump foil squeeze film damper with floating shims in the constrained space.
   (applied with patent office) No. 2451/CHE/2015, Date 08/05/2015
- 2. Bearings comprising smart materials. No. 1461/CHE/2014, Date-20/03/2014

### Consultancy Project Handled

Stress analysis of carrousel and valve arrangements for LPG line M/S FABS Limited, Bangalore

Cost: Rs. 25,000/-

| Details of Research work Supervised |                      |   |          |
|-------------------------------------|----------------------|---|----------|
| Name of<br>Candidates               | Registered under VTU | Area of Specialization  | Status   |
| H.P Jagadish                        | VTU                  | Evaluation of Damping and<br>Stiffness Characteristics of<br>Magneto-Rheological Fluids<br>used as External Damping<br>Medium                           | Awarded  |
| G.Saravanakum<br>ar                 | VTU                  | Temperature Effects on<br>Evaluation of Damping and<br>Stiffness Characteristics of<br>Magneto-Rheological Fluids<br>used as External Damping<br>Medium | Awarded  |
| Raghu Yograj                        | VTU                  | Semiactive Journal bearing  | Awarded  |
|                                     |                      | Flutter analysis of delaminated composite panels subjected to various loads.  | On going |

### M.Sc. Engineering by Research

| Name of Candidates  | Registered under VTU | Area of Specialization   | Status    |
|---------------------|----------------------|--|-----------|
| Gururaj G.<br>Nayak | VTU                  | Dynamic Stability Analysis of<br>Columns Subjected to<br>Conservative and Non-<br>Conservative Loads | Completed |
| Sandesh S           | VTU                  | Nonlinear torsional transient vibrations   | completed |
| UG, PG              | VTU                  | Guided Several Projects  |           |

### Publications

### **International Journals**

1. "Feasibility and performance studies of Semi Active Journal Bearings", Procedia technology, Vol 25, pp1154-1161 Elsevier, 2016.

- 2. "Magnetorhelogical fluid and grease based squeeze film dampers- A Comparison", International Journal of Mechanical Engineering and Material Science. Vol 8(1)49-53 2015
- 3. "Effect of L/D Ratio and the Temperature on MR Fluid Squeeze Film Damper Performance", Asian Journal of Engineering and Applied Technology, Vol. 3 No. 2, pp.37-41, 2014.
- 4. "Effect of Temperature and Electric Field on the Damping and Stiffness Characteristics of ER Fluid Short Squeeze Film Dampers", Journal of Advances in Tribology.1-10, Vol 2013
- 5. "Effect of Temperature on the Performance of Squeeze Film Damper Lubricated With Magnetorheological Fluid", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-3, Issue-5, 160-164, 2013.
- 6. "Dynamic stability analysis of column with localized flaw subjected to follower loads" International Journal of Advanced Mechatronics and Robotics Vol 3 No 2 71-84, 2011.
- 7. "Calibration of stiffness and damping characteristics of magnetorheological fluid long squeeze film damper in terms of Reynolds number", Journal of Mechanical Engineering Science Vol 224(10),2121-2128, 2010.
- 8. "Dynamic characteristics of MR fluid short squeeze film damper in terms of Reynolds number", Journal of Aerospace Sciences and Technologies Vol 62(2), 141-151, 2010.
- 9. "Dynamic instability characteristics of doubly curved panels with circular cutouts subjected to follower edge load". Aircraft Engineering and Aerospace Technology vol 177(1), 52-61, 2005.
- 10. "Vibration, buckling and dynamic instability behaviour of laminated composite cross-ply curved panels with central circular cutout subjected to partial inplane edge loading". *International Journal of Structural Stability and Dynamics*. Vol 5(1), pp 1-20, 2005.
- 11. "Vibration, buckling and dynamic instability behaviour of doubly curved panels with central circular cutout subjected to a non-uniform partial edge loading. *Int. Journal of Advances in Vibration.* Vol 4(2), 2005.

- 12. "Dynamic instability characteristics of laminated composite doubly curved panels subjected to partially distributed follower edge loads". *International Journal of Solids and Structures*. Vol 42(8), pp 2243-2264, 2005.
- 13. "Dynamic stability analysis of isotropic/laminated composite plates with circular cutout subjected to partial follower edge load". *Journal of Aerospace Engineering and Technologies*. Vol 56(4), 226-239, 2004.
- 14. "Tension buckling and parametric instability characteristics of doubly curved panels with circular cutout subjected to non-uniform tensile edge loading". *Thin Walled Structures*, 42(7), 947-962, 2004.
- 15. "Dynamic instability characteristics of doubly curved panels subjected to partially distributed follower edge loading with damping". *Proc. of Institution of Mech. Engrs. IMechE Part C. U.K. Journal of Mechanical Engineering Science.* 218, 1-15, 2004.
- 16. "Dynamic instability characteristics of laminated composite plates subjected to partial follower edge load with damping". *International Journal of Mechanical Sciences*, 45(9), 1429-1448,2003.
- 17. "Tension Buckling and vibration behaviour of laminated composite curved panels subjected to partial edge loading", *Composite Structures*, 60, 171-181, 2003.
- 18. "Tension Buckling and vibration behaviour of curved panels subjected to non-uniform in-plane edge loading", *International Journal of Structural Stability and Dynamics*, 2(3), 409-423, 2002.

#### **National Journals**

- 1. "Comparative Study of M.R. Fluid Journal Bearings and M.R. Fluid Squeeze film Dampers for Static and Dynamic Characteristics" Indian Journal of Tribology, Issue 2, Volume 4, July-December 2009.
- 2. Buckling behaviour of laminated composite cylindrical curved panel subjected to biaxial non-uniform edge loading", J. Inst. of Engineers(India)Aerospace Engineering, Volume 87, pp 12-16 May 2006

#### International Conferences:

- 1. An investigation of special magnetorheological fluid squeeze film dampers. Proceedings of ICTACEM 2014, International Conference on Theoretical, Applied, Computational and Experimental Mechanics, December 29-31, 2014, IIT Kharagpur, India\ICTACEM-2014/235
- Magnetorheological fluid and grease based squeeze film dampers A COMPARISON. International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (October 16-18, 2014).PTU Punjab
- Effect of Temperature on the Dynamic Characteristics of Magnetorheological Fluid Long Squeeze Film Damper", International Conference ASIATRIB 2014, Agra, 17-20<sup>th</sup> February 2014
- 4. Damping and stiffness characteristics of grease based squeeze film damper, International Conference ASIATRIB 2014, Agra, 17-20<sup>th</sup> February 2014
- 5. Performance Analysis of Magnetorheological Fluid Squeeze Film Damper Used as External Damping Medium", International Conference "AMMMT 2013", SIT Tumkur, during 2-4, May, 2013.
- 6. Effect of temperature and electric field on the damping and stiffness characteristics of ER fluid squeeze film dampers", International Conference on Advanced Manufacturing and Automation, "INCAMA 2013" Kalasalingam University, Srivilliputur, during March 28-30, 2013.
- 7. Dynamic stability analysis of column with localized flaw subjected to follower loads, AFTMM, Punjab Technological University, Jalandhar, October 2011.
- 8. Theoretical analysis of static and dynamic characteristics of MR fluid rectangular squeeze film dampers, ICTACEM 2010, Dec-2010, IIT-KGP.
- 9. Effect of temperature on static and dynamic characteristics of MR fluid squeeze film dampers, December-2010, ICIT, Ranchi.
- 10. Vibration and Buckling behaviour of laminated composite curved panel subjected to biaxial non-uniform edge loading, ICOVP-2009,19-23 Jan 2009, IIT Kharagpur.

- 11. Comparative study of Magnetorhelogical fluids journal bearings and squeeze film dampers for static and dynamic characteristics, International conference on Industrial Tribology, Nov 6-8, 2008, ICIT 2008, New Delhi
- 12. Flutter instability analysis of plate with damage subjected to follower forces, International conference on Theoretical, applied, Computational and Experimental Mechanics. ICTACEM-2007, Indian Institute of Technology, Kharagpur. December 27-29, 2007.
- 13. Instability Analysis of Columns with Damage under Distributed Follower Load, Jan 28-30, 2006, Fatigue damage and Analysis, XIV NASAS, VNIT Nagpur.
- 14. Dynamic stability characteristics of cantilever plate subjected to varying follower load with damping, International conference on Structural Engineering Convention SEC-2005, Dec. 14-16, 2005, IISc, Bangalore.
- 15. Dynamic stability characteristics of cantilever plate subjected to varying follower load with damping. 8<sup>th</sup> International conference on Shell Structures, SSTA, Oct 12-15, 2005, Gdansk- Jurata, Poland.
- 16. Effect of Aspect ratio and Boundary conditions on Tension Buckling Behaviour of Curved panels Subjected to Follower Edge Loading with Damping. ICTACEM-2004, IIT-Kharagpur.
- 17. Flutter Behaviour of a Plate with Circular Cutout Subjected to Non-Uniform Follower Force. Accepted for ASEM-04 Seoul, Sept. 2004.
- 18. Flutter Behaviour of Laminated Composite Plate with a Circular Cutout Subjected to Non-Uniform Follower force. ICASI and XIII NASAS, July 14-17<sup>th</sup> 2004 at IISc., Bangalore.
- 19. Dynamic instability characteristics of rectangular plates subjected to intermediate partial follower edge load. SEC-2003, Dec. 12-13, 2003 at IIT, Kharagpur.
- 20. Dynamic instability characteristics of laminated composite plate plates subjected to intermediate partial follower edge load. INCCOM-2 & XII NASAS, Sept. 5-6, 2003 at IISc., Bangalore.
- 21. Buckling behaviour of laminated composite cylindrical curved panel subjected to biaxial non-uniform edge loading, 54<sup>th</sup> AGM-AeSI & International Seminar, Jan 21-22, 2003 at Kolkata.

22. Tensile buckling and vibration behaviour of curved panels, 2nd International Conference on Structural Stability and Dynamics (ICSSD). December 16-18, 2002, at NUS, Singapore.

#### **National Conferences/symposium**

- 1. Effect of temperature on the Dynamic characteristics of MR fluid squeeze film damper Jun 2011, MSRIT, Bangalore.
- 2. Static and Dynamic Characteristics of Magneto-rheological Fluid Pure Translatory Squeeze Film Damper April 2010, SSCE, Bangalore.
- 3. Performance characteristics of pure translational parallel surface MR Fluid Squeeze film dampers, May 2009, IEM Dept. BMSCE.
- 4. Calibration of stiffness and damping characteristics of MR fluid Squeeze film in terms of Reynolds number, Nat DMME-09, Malnad College of Engineering, March-2009, Hassan.
- 5. Study on smart autotronics, ETIME-2008, 28-29, August, 2008, BMSCE, Bangalore.
- 6. Vibration analysis of stiffened laminated plates by finite element approach, ETIME-2008, 28-29, August, 2008, BMSCE, Bangalore.
- 7. Vibration and buckling analysis of plate with damage subjected in-plane loads, ETIME-2008, 28-29, August, 2008, BMSCE, Bangalore.
- 8. Behaviour of electro- rheological fluids in dampers:-an overview. ETIME-2008, 28-29, August, 2008, BMSCE, Bangalore.
- 9. Performance characteristics of a mr fluid spherical squeeze film damper in a spherical seat, ETIME-2008, 28-29, August, 2008, BMSCE, Bangalore.
- 10. Fracture mechanics based assessment of embedded delamination in laminated composite panels, ETIME-2008, 28-29, August, 2008, BMSCE, Bangalore
- 11. Theoretical investigation of stiffness and damping characteristics of MR fluid squeeze film dampers, NCETM, TBI-KIET, Ghaziabad, 27-28, June 2008.

- 12. Dynamic Instability Analysis of Columns, panels subjected to Non Follower and Follower Load, National conference on Advances in Civil Engineering,21-22, March 2008, ACE-2008, Bhatkal
- 13. Flutter instability characteristics of doubly curved panels subjected to varying follower load with damping, CEMCT-06, GNDEC, Ludhiana, 24-25, Nov. 2006
- 14. Non-linear torsional vibration analysis, NATCON.ME-2006, Sri. Sddaganga Institute of Technology, Tumkur, 26<sup>th</sup> & 27<sup>th</sup> May 2006.
- 15. Coupling stiffness sensitivity analysis on Torsional Transient Vibrations, National conference on Emerging trends in Mechanical Engineering (ETIME-2006), BMS College of Engineering, 10-11, Feb 2006.
- 16. Dynamic stability analysis of cantilever column with damage, National conference on Advances in Mechanical Engineering , AIME-2005, 20<sup>th</sup>- 21<sup>st</sup> Jan. 2006. JMIU-New Delhi
- 17. Flutter characteristics of cylindrical panels subjected to follower forces with damping, National conference on composite component and construction (NCCCC), 12-13<sup>th</sup> Sept. 2005, JNTU, Kakinada, Andra pradesh.
- 18. Effect of Aspect ratio and Boundary conditions on Tension Buckling Behaviour of Curved panels Subjected to Non-Uniform In-Plane Edge Loading 18<sup>th</sup> National Convention of Aerospace Engineers, Nov-17-19, 2004
- 19. Dynamic instability characteristics of laminated angle-ply plates subjected to intermediate partial follower edge load. ETSMC-2003, Nov. 1-2, 2003 at NIT, Rourkela.
- 20. Buckling and vibration behaviour of doubly curved panels subjected to non-uniform biaxial loading (Compression/Tension). Wave Mechanics and Vibration (WMVC-2003), March 15-16, 2003 at Jalpaiguri.
- 21. Degenerated modes in Vibration Problems. 45<sup>th</sup> ISTAM international congress, December 26-29, 2000, Sivakasi.

#### Conference/ workshops Organized

| SI.<br>No | Year | Conference/Short term Courses organized | Organization/<br>Venue | Dates             |
|-----------|------|---|------------------------|-------------------|
| 1         | 2000 | STTP on Mechatronics                    | BMSCE                  | 12-15 Dec<br>2000 |

| 2  | 2006 | National Conference on Emerging trends in Mechanical Engineering         | BMSCE | FEB 10&11               |
|----|------|--|-------|-------------------------|
| 3  | 2006 | Work shop on Role analysis and role effectiveness                        | BMSCE | Sept. 1, 2              |
| 4  | 2007 | Workshop on English Learning and Computer Awareness February 19-24, 2007 | BMSCE | February 19-<br>24      |
| 5  | 2008 | National Conference on Emerging trends in Mechanical Engineering         | BMSCE | AUG 28 & 29             |
| 6  | 2013 | Identification of Slow Learners  | BMSCE | Aug 20, 2013            |
| 7  | 2014 | FDP on Theoretical,<br>Computational and Applied<br>Mechanics            | BMSCE | 16-24, June,<br>2014    |
| 8  | 2015 | Curriculum Design and Development of Mechanical Engineering              | BMSCE | 5&6, June,<br>2015      |
| 9  | 2015 | Automobile Mechanics and IC Engines                                      | BMSCE | 30&31, Oct.,<br>2015    |
| 10 | 2016 | Environmental Management Frame Work-2016                                 | BMSCE | 29/02/16 to 04/03/2016  |
| 11 | 2016 | International Conference – ICAMA   | BMSCE | 15-17, June<br>2016     |
| 12 | 2016 | CAMD with Solidworks and GD&T  | BMSCE | 8 – 12,<br>August, 2016 |

# Short term Training Programme/ workshops /seminars attended

| SI.<br>No | Year | Conference/Short term Courses organized                                 | Organization/<br>Venue | Dates                 |
|-----------|------|---|------------------------|-----------------------|
| 1         | 1998 | CAD/CAM/Rapid prototyping for near net shape manufacturing. at          | IISc-<br>Bangalore     | Aug. 03 – 07,<br>1998 |
| 2         | 1998 | Finite element method   | IISc-<br>Bangalore     | Sept. 21-<br>25,1998  |
| 3         | 1999 | Experimental methods of stress analysis                                 | IIT- Kharagpur         | Jan. 04–08,<br>1999   |
| 4         | 1999 | Management of manufacturing enterprises: Recent trends and developments | IIT-Mumbai             | May 25 – 29,<br>1999  |
| 5         | 1999 | Mathematical models for multi criteria decision making in               | BMSCE -<br>Bangalore   | July 03 – 17<br>1999  |

|     |      | Engineering and industry         |                |                           |
|-----|------|----------------------------------|----------------|---------------------------|
|     |      | Advanced microprocessor and PC   | UVCE-          | July 19 –                 |
| 6   | 1999 | training                         | Bangalore      | Aug. 8,1999               |
|     |      |                                  | IISc-          | Sept 11- 22,              |
| 7   | 2000 | Mechatronic system design        | Bangalore      | 2000                      |
|     |      |                                  | -              | 12-15 Dec                 |
| 8   | 2000 | STTP on Mechatronics             | BMSCE          | 2000                      |
|     |      | Interpersonal Communication,     |                | Feb. 16-21,               |
| 9   | 2004 | February                         | IIT-Kharagpur  | 2004,                     |
| 40  | 0004 | Recent Advances in               | BMSCE-         | 2-13 <sup>th</sup> August |
| 10  | 2004 | Computational Techniques,        | Bangalore      | 2004,                     |
| 44  | 0004 | •                                |                | 30 Sept & 1 <sup>st</sup> |
| 11  | 2004 | The Quality Lever                | CII, Bangalore | Oct 2004                  |
| 40  | 0004 | Finite Element analysis and      | UT O I d'      | 20 <sup>th</sup> to 24 th |
| 12  | 2004 | identification in Rotor Bearing, | IIT-Gawahati   | Dec.2004,                 |
|     |      | Failure analysis of Engineering  |                | 31 Jan. to                |
| 13  | 2005 | materials and Residual life      | VNIT, Nagpur   | 11 <sup>th</sup> Feb.,    |
|     |      | Assessment                       | , 31           | 2005                      |
| 4.4 | 0005 | Aluminium alloy Composite        | BMSCE,         | 17-18                     |
| 14  | 2005 | Materials                        | Bangalore      | Feb,2005                  |
| 4.5 | 2005 | Fool Toochor                     | BMSCE,         | 01-04, Sept               |
| 15  | 2005 | Feel Teacher                     | Bangalore      | 2005                      |
| 16  | 2006 | Advanced Vibrations              |                | 3-7, July                 |
| 10  | 2006 | Advanced Vibrations              | IIT-Bombay     | 2006                      |
| 17  | 2006 | Role analysis and Role           | BMSCE,         | 1-2, Sept.                |
| 17  | 2000 | effectiveness                    | Bangalore      | 2006                      |
| 18  | 2006 | Computer aided Engineering       | BMSCE          | 4-6, Sept.                |
| 10  | 2000 | Drawing                          |                | 2006                      |
| 19  | 2007 | Managerial Capacity Building     | SPFU,          | 10-14 July                |
| 13  | 2007 | Managenal Capacity Building      | Bangalore      | 2007                      |
| 20  | 2007 | Computer Aided Machine Drawing   | BMSCE          | 5-6,Oct 2007              |
| 21  | 2009 | Engineering Noise and Vibration  | IISc,          | 13-24, July               |
| ۷ ا | 2003 | Control                          | Bangalore      | 2009                      |
| 22  | 2010 | Spacecraft Attitude Dynamics and | IIT-Bombay     | 17-21,May                 |
|     | 2010 | Control                          | II I -DOITIDAY | 2010                      |
| 23  | 2010 | Summer School in Tribology       | liPM, Gurgaon  | 21-24, June,              |
|     | 2010 |                                  | w, Surgaon     | 2010                      |
| 24  | 2010 | Research & Development and       | MCE Hassan     | 3 <sup>rd</sup> July 2010 |
|     | 2010 | Innovation Initiate              | MOE Habball    | _                         |
| 25  | 2011 | Navigation control and Guidance  | IIT-Bombay     | 13-17 <sup>th</sup> June  |
|     |      | ~                                | Donnbay        | 2011                      |
| 26  | 2011 | Recent developments in Design of | NIT-Calicut    | 04-09 <sup>th</sup> July  |
|     |      | Press Tools, Jigs and Fixtures   | 20             | 2011                      |
| 27  | 2011 | Fracture Mechanics and Fatigue   | NIT- Surthkal  | 8-12, August              |
|     |      |                                  |                | 2011                      |

| 28 | 2013 | Teaching Methodologies                                      | SPFU.GoK,<br>Bangalore | 16&17, Dec<br>2013     |
|----|------|---|------------------------|------------------------|
| 29 | 2014 | Intelligent Machines and Systems                            | BMSCE                  | 20-24, Jan.<br>2014    |
| 30 | 2015 | Curriculum Design and Development of Mechanical Engineering | BMSCE                  | 5&6, June,<br>2015     |
| 31 | 2015 | Assessment of Quality of Teaching Learning Process          | BMSCE                  | 29/07/2015             |
| 32 | 2015 | Leadership in University                                    | NUS,                   | 29/09/15 to            |
|    |      | Management  | Singapore              | 01/10/2015             |
| 33 | 2016 | Environmental Management Frame Work-2016                    | BMSCE                  | 29/02/16 to 04/03/2016 |
| 34 | 2016 | 3 <sup>rd</sup> World Summit on Accreditation               | Delhi                  | 18-20, March<br>2016   |
| 35 | 2016 | Fatigue and Fracture Mechanics                              | BMSCE                  | 25-07-16 to 05-08-2016 |

### Areas of Interest

- Structural dynamics
- > Experimental stress Analysis
- Mechanical vibrations
- > Strength of materials
- Machine Design

### Subjects Taught in the last five years:

- Experimental stress Analysis
- > Mechanical vibrations
- Strength of materials
- Machine Design
- Computer aided Engineering drawing

#### **Books Reviewed:**

Mechanical Vibrations – Pearson publications, 1993

### Personal Profile

Date of Birth 05-05-1968

Nationality Indian

Dr. Ravikumar L