

FACULTY PROFILE

Name : **M. S. Hebbal**



Designation : **Professor, Head and P.G. Coordinator**

Department : **Mechanical Engineering**

Employee ID : **TMD001**

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Orcid ID : **0000-0002-4288-7370**

Scopus ID : **13805490500**

Vidwan Id : **147815**

Researcher ID (Web of Science) : **Nil**

Google Scholar ID : **ThzBluoAAAAJ**

Qualification : **Ph.D.**

Professional Experience

Teaching experience : **18 years**

Industry experience : **18 years**

Administrative Responsibilities : *Head of the Department, Coordinator PG, BOS*

Teaching : **P. G. (Machine Design)**

No. of Projects Guided

UG : **10**

PG : **15**

Research

Interest Area : *Machine Design*

No. of Research Scholars

Pursuing : **2**

Journals

1. Hebbal M.S., V. B. Math, B. G. Sheeparamatti, "A Study on

Reducing the Root Filet Stress in Spur Gear Using Internal Stress

Relieving Features of Different Shapes", International Journal of

Recent Trends in Engineering, Vol. 1, No5, May 2009

2. Hebbal M. S., B. G. Sheeparamatti, J. S. Kadadevarmath, "FEM

Simulation of Novel Thermal Microactuator" International

Journal of Recent Trends in Engineering (Electrical &

Conferences

- Electronics), Vol. 1, No. 4, June 2009 pp-79-81.
3. Hebbal M. S., Sheeparamatti B. G., Rajeshwari Sheeparamatti, Math V. B., Kadadevaramath J. S., "Simulation of Biosensor using FEM", On-line Journal; Journal of Physics: Conference Series Vol. 34, 2006, pp 241-246 (International MEMS Conference 2006) <http://www.iop.org/EJ/toc/1742-6596/34/1>
 4. Hebbal M. S., Paramanand Nandihal, V. B. Math, "Bending stress analysis of profile shifted gear: A Parametric study" invited to submit extended version of the work to the special issue of "International Journal of Design Engineering"
- :
1. Hebbal M. S., V. B. Math, B. G. Sheeparamatti, "The reduction of root fillet stress in spur gear using circular and elliptical stress relieving features", International Conference, US National Congress on Computational Mechanics, San Francisco, USA, 22-26 July 2007.
 2. Hebbal M. S., Math V.B., Kerur S.B., "A survey of factors influencing the location of critical sections in spur gear using FEM", International conference US National Congress on Computational Mechanics, San Francisco, USA, 22-26 July 2007.
 3. Hebbal M. S., Math V.B., Kerur S.B., "Comparative study of root fillet stress with different rim thickness for one two three and five teeth FE models", International conference US National Congress on Computational Mechanics, San Francisco, USA, 22-26 July 2007.
 4. Hebbal, M.S., B.G. Sheeparamatti, J. S. Kadadevaramath, Rajeshwari Sheeparamatti, "Modeling and Simulation of Micro cantilever Beams for sensing and Actuating Applications" International Conference, US National Congress on Computational Mechanics, San Francisco, USA, 22-26 July 2007
 5. Hebbal M.S, Sheeparamatti B.G, Rajeshwari Sheeparamatti, Math V.B, Kadadevaramath J. S., "Simulation of Biosensor using FEM", (oral presentation) proceedings of the International Conference on MEMS (IMEMS-06), NTU Singapore during 9th to 12th May 2006
 6. Hebbal M. S., B. G. Sheeparamatti, P. V. Hunagund, "MEMS in Human Machine interface: Design and Modeling approach", Proceedings of International conference on Human Machine Interfaces (ICHMI) 2004, at IISc Bangalore. Dec 20-23 2004. pp.207-215
 7. Hebbal M. S., Sheeparamatti B.G., Kadadevaramath J. S., "FEM modeling of MEMS based sensor for sensing Antibody/Antigen" Proceedings of International Conference on materials, structures and systems organized by Institute of Smart Structures and Systems (ISSS), IISc Bangalore July 28-30, 2005. pp SD 34-39.
 8. Hebbal M. S., V. B. Math, S. B. Kerur, C. M. Veerendrakumar, "A Study on Factor Influencing the Location of Critical Section in Spur Gear" National Conference, RADE-2007, 22-24 Feb 2007, Paper No. FEA-01, MIT Manipal- 587104
 9. Hebbal M.S., V. B. Math, S. B. Kerur, C. M. Veerendrakumar,

“An Approach to the redistribution of root fillet stress in spur Gear” National Conference, RADE-2007, 22-24 Feb 2007, Paper No. FEA-03, MIT Manipal- 587104

10. Hebbal M. S., Sheeparamatti B.G, Kadadevaramath J.S, “FEM simulation of microcantilever based thermal micro actuator”, National Conference, RADE-2007, 22-24 Feb 2007, Paper No. MEM-01, MIT Manipal- 587104
11. Hebbal M.S., V. B. Math, S. B. Kerur, C. M. Veerendrakumar, “The redistribution of root fillet stress in spur Gear using elliptical holes”, National Conference for research Scholars-2007, 12-14 March 2007, BEC-Bagalkot- 587102
12. Hebbal M. S., Math V. B., Paramanand, “Bending stress analysis of profile shifted thin rim gears: a parametric study”, National conference on emerging trends in engineering and technology & applications”, 29th -30th April, 2009, SS EC, Anekal, Bangalore.

Invited Talks : 03
Conferences/ Symposiums/ : Conferences
Workshops/ Training
Programs Attended

- 1 International conference on “Computational Mechanics” San Francisco, from 22-26 July 2007, organized by University of California Berkeley United State of America
- 2 National conference on “Recent Advances in Design Engineering”, 22-24 Feb. 2007, organized by Manipal Institute of Technology Manipal
- 3 National Conference on “World Class Manufacturing Practices”, 2-3 April 2007, organized by Basaveshwar Engineering College Bagalkot
- 4 National conference for “Research Ccholars”, 12-13 March 2007, organized by Basaveshwar Engineering College Bagalkot

Workshops/Training Programs

- 1 One week FDP on “Engineering Seismology and Seismic Hazard Assessment”, 12-16 Feb. 2007, Indian Institute Technology Madras.
- 2 Three days Workshop on “Programmable Logic Control; Supervisory Control and Data Acquisition”, 21-23 Dec. 2006, Prolific Systems and Technologies Privet, Ltd.
- 3 Three days Workshop on “Mathematical modeling of Engineering Problems”, 8-10 Sept. 2006, Malnad College of Engineering Hassan.
- 4 Two week training program on “HYPERMESH”, 28th July to 11th Aug. 2006, Swamy Design Solutions Privet Ltd. Bangalore.
- 5 One week FDP on “Applied Mathematics”, 03-08 April 2006, Basaveshwar Engineering College, Bagalkot.
- 6 One week FDP on “Vision R & D”, 20-25 March 2006, Basaveshwar Engineering College, Bagalkot.

- 7 One week FDP on “Recent Trends in Applications of Finite Element Analysis”, 06-11 March 2006, Basaveshwar Engineering College Bagalkot.
- 8 Two days Seminar on “Intellectual Properties Rights” 17-18 Feb. 2006, Basaveshwar Engineering College Bagalkot.
- 9 Two weeks FDP on “CAD, CAM, CAE” 18th to 22nd July and 22nd to 31st Aug, 2005, VTU Belgaum (conducted by design Tech., Pune).
- 10 Two weeks FDP on “Industrial Approach for Technical Institution and Management Information System”, 08-19 Dec. 2003, BVVS Polytechnic, Bagalkot.
- 11 Two weeks FDP on “Futuristic Material and Their Application”, 18-30 Aug. 2003, Basaveshwar Engineering College, Bagalkot.
- 12 Training Programme on “Pro Engineer”, 21st July to 2nd Aug. 2003, Amitron CAD-CAMCAE Center, Dharwad.
- 13 One week FDP on “Finite Element Analysis”, 24-28 Nov. 1997, Manipal Institute of Technology Manipal.