

FACULTY PROFILE

Name : Dr. M. S. Hebbal



Designation : Professor
Department : Mechanical Engineering
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Qualification : PhD
Professional Experience
 Teaching experience : 18 years
 Industry experience : 18 years
Administrative Responsibilities : Coordinator of BOS and Former Head of the Mechanical Engineering Department
Teaching : PG Faculty
No. of Projects Guided
 UG : 10
 PG : 15
Research
 Interest Area : Machine Design
Journals (with citations) :

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.Kadadevaramath, and "FEM Simulation of Novel Thermal Microactuator" *International Journal of Recent Trends in Engineering (Electrical & 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

Conferences

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- 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 ", Inter National 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., Dr.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., Dr.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 : 4

Conferences/ Symposiums/ Workshops/ Training Programs Attended :

<i>Sl. No.</i>	<i>Conference</i>	<i>Organised By</i>	<i>Period</i>
1.	International conference on Computational Mechanics San Francisco	University of California Berkeley United State of America	22nd to 26th July 2007
2.	National conference on Recent Advances in Design Engineering	Manipal Institute of Technology Manipal	22nd to 24th Feb. 2007
3.	National Conference on World Class Manufacturing Practices	Basaveshwar Engineering College Bagalkot	2 nd and 3rd April 2007
4.	National conference for research scholars	Basaveshwar Engineering College Bagalkot	12th and 13th March 2007
5	Engineering Seismology and Seismic Hazard Assessment	Indian Institute Technology Madras	12th to 16th Feb-2007
6	Programmable Logic Control; Supervisory Control and Data Acquisition	Prolific Systems and Technologies Privet, Ltd.	21st to 23rd Dec- 2006
7	Mathematical modeling of Engineering Problems	Malnad College of Engineering Hassan	8 th to 10th Sep 2006
8	HYPERMESH	Swamy Design Solutions Privet Ltd. Bangalore	28th July to 11th Aug. 2006
9	Applied Mathematics	Basaveshwar Engineering College	3 rd to 8 th April 2006
10	Vision R&D	Basaveshwar Engineering College	20th to 25th March 2006
11	Recent Trends in Applications of Finite	Basaveshwar Engineering College	6 th to 11th March 2006

	Element Analysis	Bagalkot	
12	Intellectual Properties Rights Studies	Basaveshwar Engineering College Bagalkot	17th and 18th Feb. 2006
13	CAD,CAM,CAE Training program	VTU Belgaum (conducted by design tech, Pune)	18th to 22nd July and 22nd to 31st Aug, 2005
14	Industrial Approach for Technical Institution and Management Information System	BVVS Polytechnic Bagalkot	8 th to 19th Dec. 2003
15	Futuristic Material and Their Application	Basaveshwar Engineering College Bagalkot	18th to 30th Aug. 2003
16	Pro Engineer	Amitron CAD-CAMCAE Center Dharwad	21st July to 2nd Aug. 2003
17	Finite Element Analysis	Manipal Institute of Technology Manipal	24th to 28th Nov. 1997