

CURRICULUM VITAE

Name : Dr. Shivakant N. Kurbet
Designation : Professor & Head Dept.of Mech.Engg
Date of Birth : 15-08-1960
Caste : **Hindu [Panchamashali] Lingayat**
Place of Birth : **Basapur (Belgaum Dist)**
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Sl. No	Designation	Date of Appointment
1.	Professor (Placement Officer)	12-07-2003 Till date
2.	Asst. Professor	19-06-1992
3.	Lecturer	28-02-1984

Qualification

	Specialization	Institute	Year of Award
Ph.D	Design (CAD, CAM CAE)	I.I.T, Madras	2003
M.Tech	Production	I.I.T, Madras	1990
B. E	Mechanical	B.E.C, Bagalkot	1983

Areas of Interest/Research:

Title of the Thesis (Ph.D) : **Finite Element Analysis of the Dynamics of IC Engine.**
Title of M.Tech thesis : Electrochemical grinding studies on HSS with Al_2O_3 , sic Grinding wheel.

Academic:

Subject taught	UG/PG
Engineering Graphics	UG
Machine Drawing	UG
Machine Design I &II	UG
Plant Layout & Material Handling	UG
Engg. Metrology &Instrumentation	UG
Finite Element Analysis	PG
Composite Materials	PG
Product Development and Design	PG

Soft Skills:

MS, Windows XP, UNIX OS, Mechanical softwares like, Solid Edge, IDEAS MS 08, ANSYS 11.0, ABAQUS, LSDYNA

PUBLICATIONS:**INTERNATIONAL JOURNAL:**

1. **S.N.Kurbet** and R.Krishnakumar "A Finite Element study of Piston Tilt effects on Piston Ring Dynamics in IC Engines Proc Instn Mech Engrs (IMECHE) Part K.2004, pp 107-117
2. **S.N.Kurbet** and R.Krishnakumar Finite Element Modeling of Piston-Ring Dynamics and Blowby estimation in Four cylinder Diesel Engine Journa of Automobile Engg. (IMECHE).2007, pp 1405-1414
3. R.R.Malagi and **S.N.Kurbet** "A Comprehensive Model to Study Dynamic Motion of Piston and Friction and Lubrication in IC Engines" Journal of Tribology Trans ASME Tribo-08-1024 (Under review)
4. R.R.Malagi and **S.N.Kurbet** "Finite Element Study of Piston Ring During Running Conditions for an Internal Combustion Engine" Journal of Tribology Trans ASME Tribo-08-1054 [Under review **This work is taken in collaboration with Indian Piston Rings Ltd. MM Nagar Chennai**]
5. S.V.Gorbal, **S.N.Kurbet** and K.K.Appukuttan "Design and Evaluation of Hydropneumatic Friction Damper Suspension System" Proc Inernational Journal of Materials Machines and Manufacturing Engineering Article Ref.IJMMME-JPD2810.2010 (Under print)
6. S.V.Gorbal, **S.N.Kurbet** and K.K.Appukuttan Design and Evaluation of pneumatic Friction Damper Suspension System by using FEA Approach" Proc.RI publication (Under Review)
7. S.V.Gorbal, **S.N.Kurbet** and K.K.Appukuttan. "Two Dimensional Vibration Isolations for a Passenger Seat Using Semi-Active Pneumatic and Hydropneumatic Friction Damper suspension System" AES Journals In Engineering, Technolog, Management Humanitie and social Sciences (Under review)
8. R.R.Malagi and **S.N.Kurbet** and Gowrishankar N. "Finite Element Study on Piston Assembly Dynamics in Multicylinder Internal Combustion Engine"SAE International 2011-01-1075 Published 12.04.2011
9. .V.Kuppasta and **S.N.Kurbet** "Finite Element Analysis of Crankshaft Vibration and Its Effect on Engine Noise"
10. .V.Kuppasta and **S.N.Kurbet** "Finite Element and MBD Analysis of Connecting Rod to Predict the Engine Vibration"

NATIONAL JOURNAL:

1. **S.N.Kurbet** and Mudas "A study on Plant location of Ceramic Industry" Industrial Engg. Journal, 2000, pp 233-239.

INTERNATIONAL CONFERENCE

1. **S. N. Kurbet** and S. S. Hiremath "Experimental Investigations about the Performance of a Two Wheeler with two Stroke SI Engine for Fuel Economy and lean Burning", 4th Asian- Pacific International Symposium on Combustion and Energy Utilization, Bangkok,Thailand December 8-11, 1997 Page No. 700-706
2. S.S.Hiremath and **S.N.Kurbet** "Experimental Investigations on a Lambretta Engine by Inserting Different Carburetors to Evaluate the Matching Feasibility in View of road Test" 4th Asian-Pacific International Symposium on Combustion and Energy Utilization,Bangkok, Thailand December 8-11, 1997 Page No.707-713.
3. **S. N. Kurbet** and S. S. Hiremath "Development and Testing of Low Cost GEN SET for fuel Economy and Lean Burning" 4th Asian-Pacific International Symposium on Combustion and Energy Utilization, Bangkok, Thailand December 8-11, 1997 Page No.714-718
4. **S. N. Kurbet** and S. S. Hiremath "Performance of a LPG Fueled Two Wheeler with Four stroke SI Engine-An Overview on Road Test" 4th Asian- Pacific International Symposium on Combustion and Energy Utilization, Bangkok, Thailand December 8-11, 1997 Page No.1014-1018.
5. **S. N. Kurbet** and S. S. Hiremath "Experimental Studies on Performance of a Two Stroke SI Engine Two Wheeler with Modified Dual Intake Manifold and Throttling Systems for Fuel Economy and Emission Control" 4th Asian-Pacific International Symposium on Combustion and Energy Utilization, Bangkok, Thailand December 8-11,1997 Page No. 1019-1024.
6. **S.N.Kurbet** and R.Krishnakumar "Mechanics and Stress Analysis of Piston Ring In Multibody Single Cylinder Internal Combustion Engine-FE Analysis" Automotive &Transportation Technology Congress&Exhibition, Barcelona, Spain October 1-3, 2001 Page No, 368-373
7. **S.N.Kurbet** and R.Krishnakumar "Finite Element Modeling of Piston-Ring Dynamics and Blowby Estimation in Single-cylinder IC Engine" ICED of ASME 2002 Fall Technical Conference , New Orleans, Louisiana, USA Sept 8-11,2002
8. **S.N.Kurbet** and M.Holi "Finite Element Analysis of Luminal Spline in Relation to Osteoporosis" WC 2003, World Congress on Medical Physics and Biomedical Engg. 24-29, Aug, 2003 Sydney, Australia, Published
9. **S.N.Kurbet** and R.R.Malagi :A Review on IC Engine dynamics Emphasis on Lubrication and Friction Power losses. Naples, Italy SAE ICE 07,Sept 16-20, 2007.
10. **V.V.Kuppasta and S.N.Kurbet "Review on piston and piston ring dynamics to study IC Engine Noise and its experimental validation" TEAMTECH at IISc Bangalore on 22-23 Sept 2008**
11. S.V.Gorbal,**S.N.Kurbet** and K.K.Appukuttan "Characteristics study on Semi-Active Hydro-Pneumatic Friction Damper"Proc of International conference on Frontiers in mechanical Engineering,FIME 2010, 20-22 May 2010,at NITK Suratkal

NATIONAL CONFERENCE

1. C.S.Ramesh, Prashant Marikatti, and **S.N.Kurbet**- "Blood Flow Simulation in Coronary arteries using FEA" Proceedings of NATCOM ME-2004,MSRIT Bangalore

2. C.S.Ramesh, Prashant Marikatti, and **S.N.Kurbet**-“Finite Element Analysis of Bio Medical Stent”- Proceedings of NATCOM ME-05,Gousia College of Engg.Ramanagaram,3 March, 2005
3. Shivalinga Mukannavar and **S.N.Kurbet**-“Review on Design and Development of Connecting Rod”- Proceedings of NATCOM ME-05,Gousia College of Engg.Ramanagaram,3 March, 2005
4. **S.N.Kurbet** and V.V.Kuppast “Finite Element Analysis of Oral Implantology (Accepted)” National Conference on “ Globally Competitive Eco-Friendly Technologies in Mechanical and Mechatronics Engineering (GETME-2005)”.
5. S.H.Madiwalar and **S. N. Kurbet** “Buckling Response of Rectangular Laminates with central circular cutouts – A parametric study using finite element method” National Conference on Composite Component construction from 12-13th Sept’2005 at JNTU College of Engineering, Kakinada. pp 98-103.
6. S.V.Gorbal and **S.N.Kurbet** “Theoretical and experimental determination of single point cutting tool life”. NCRS 2007, 12-13 March, BEC Bagalkot
7. S.V.Gorbal and **S.N.Kurbet** “Theoretical and experimental determination of single point cutting tool life”. NCRS 2007, 12-13 March, BEC Bagalkot.
8. S.V.Gorbal and **S.N.Kurbet** “Wall Climbing Robot” World class Manufacturing Practices-2-3 April 2007.
9. **S.N.Kurbet** and S.V.Gorbal : Vehicle Speed Sensing Type Four Wheel Steering (4WS) NCRS 2007 12-13 March, BEC Bagalkot.
- 10.V.V.Kuppasta and **S.N.Kurbet** :Flexibility in Manufacturing and Data management NCRS-07 12-13 March 2007 BEC Bagalkot
11. S.V.Gorbal, **S.N.Kurbet** and K.K.Appukuttan “Investigation of Pneumatic friction Damper Suspension System by using FEA” Proc National conference on Advances in Mechanical engineering NAME-2010,Sept 2010 at JNNC Shimoga
- 12.S.V.Gorbal, **S.N.Kurbet** and K.K.Appukuttan, “ Design and Evaluation of Pneumatic Friction Damper” The 2010 National Conference on Approaching Scholastic Horizons in Mechanical Engineering,NCAHME-10,23-24 April 2010 at SSEC ANekal Bengaluru 2010.
- 13.S.V.Gorbal, **S.N.Kurbet** and K.K.Appukuttan “Mechatronic Based SemiActive Pneumatic Friction Damper Suspension System” The 2010 National Conference on Approaching Scholastic Horizons in Mechanical Engineering,NCAHME-10,23-24 April 2010 at SSEC ANekal Bengaluru 2010.
- 14.S.V.Gorbal, **S.N.Kurbet** “ Vehicle Speed Sensing in four wheels”NCRS-2007,12-13 March 2007 at BEC Bagalkot Karnataka

VISITS ABROAD:

- **Presented a paper titled “Finite Element Modeling of piston ring dynamics and Blow by Estimation in Single Cylinder Engine” in the International conference organized by ASME at New Orleans, Louisiana, USA. Sept 8-11, 2002.**

- Presented a paper titled "Review on Effects of Piston and Piston Ring Dynamics Emphasis with Oil Consumption and Frictional Losses in Internal Combustion Engines" in ICE 2007 8th International Conference on Engines for Automobile, Spet 16-20,2007 @ Capri, Naples, Italy.
- Personal Visits to Thailand, Malaysia and Singapore

PROFESSIONAL MEMBERSHIPS:

Type of Membership	Name of society	Membership year
FIE	Institution of Engineers	2003
MSAE	Society of Automotive Engineers	1999
MISTE	ISTE	1990

ADMINISTRATIVE RESPONSIBILITY:

Nature of Work (Chairman, Coordinator, member etc.)	Worked for (University, College, etc.)	Period
Coordinator Karnataka State Council for Science and Technology	College	From 2003 till date
NSS Program Coordinator	College [scheme of Karnataka University Dharwar]	1992 - 1997
Procurement officer TEQIP	College	From 2004 till date
Staff secretary of Kannada cultural association	IIT Madras, Chennai	2000-2002
HOD, PG in Machine Design	PG section of the Department	From 2003 till date
In charge Head of the Department	Department	Aug -Dec 2003
Program Coordinator TEQIP	College	Aug -Dec,2006
Department Association Coordinator	Mech Dept	1985 - 86
Project Coordinator	Confederation of Indian Industry, Bombay	From 2006 till date
Project coordinator for COLLABCAD Software training and consultancy	NIC New Delhi	From 2006 till date
Faculty Adviser	Mech Dept	2007-08
Program Coordinator	College	2008 Till now
Head of the Department	Mech Dept	March 2010 Till date

There were two offers simultaneously in July 1998

- 1. NSS Program Coordinator for VTU**
- 2. PhD selection from IIT Madras, Chennai**

Second option was selected

Worked as Subject Expert/Resource person:

- 1. Subject experts for appointment of lecturers in BLDE college of Engg. and Technology, Bijapur**
- 2. Subject experts for promotions of faculty in BLDE college of Engg. and Technology, Bijapur**
- 3. Resource person to give a talk on the subject at National seminar on "precision Engg. in Manufacturing" at BIET Davanagere**
- 4. Judge for Students Technical Paper presentation at BVB College of Engg. and Technology, Hubli**

AWARDS:

- For having guided projects under Students Projects Program of KSCST seminar/Exhibition in the years 1995, 1996, 2004, 2008

PROJECTS GUIDED:

- A total of 53 **UG** projects and 57 **PG** projects
- Six candidates have registered for PhD and one M. Sc Engg by research in VTU
- **One PhD and one MSc Engg by research awarded and guiding 04 PhD scholars**

GRANTS RECEIVED:

- A project worth of **Rs.8.00 lakhs** has been sanctioned under Research Promotion Scheme of AICTE
- Project proposal worth of 25 Lakhs is under preparation to submit to DST
- Total projects worth around **80,000.00** grants received from KSCST Bangalore fro 1990-2007

PROGRAMS ORGANIZED:

- 1. One week short term course on "Recent Trends on the Application of Finite Element Analysis and its Applications" for Engg. College faculty in 2005**
- 2. Organized State Level KSCST Students Projects exhibition/Seminar in August 2005**
- 3. One week Short term Training program on "COLLABCAD" software of NIC New Delhi for Engg.College faculty in 2006.**
- 4. Three days workshop on Mechatronics and Robotic Training Kit and software for Engg.College faculty in 2006**
- 5. A Course on UG Software for Mechanical, Automobile Engg. Students in 2006**

6. One month Certificate Course on AUTOCAD software for Diploma and ITI students in 2007
7. Three days workshop on "Tractor and Tractor drawn Implements for Farmers in May, 2007
8. Three weeks workshop on "Water Pump Set repair and Maintenance" for unemployed youths in the Villages around Bagalkot in Nov,2007
9. Two weeks Software training program on " A Course on CATIA V5" for SC & ST students under TEQIP April 15-29, 2008
10. One week workshop on "Computer Aided Engineering Drawing" for the faculty of Government Engineering colleges in Karnataka [Pipe line]
11. One week workshop on "Computer Aided Machine Drawing" for the faculty of Government Engineering colleges in Karnataka [pipe line]
12. Three Days workshop on "Management and Entrepreneurship" for Engg. College faculty in Aug 2008

PATENTS:

- Two projects entitled
 "Pomegranate seeds extractor" patent Application No.101/CHE/2009
 and
 "A platform sanitary code for railway coach" (Green Platform)
 Patent Application No.102/CHE/2009
 TEQIP has approved both and sanctioned Rs 1.72 lakh applied for patenting
- A project entitled **"HILL HOLDER"** for four wheelers is developed and yet to be submitted for Patent (There is an invitation from TATA Motors Pune to incorporate this project in **NANOCAR**)734/CHE/09

SOCIAL WORK:

Worked as NSS [National Service Scheme] officer of the college from 1992-97 and best satisfied practices are

- Health awareness camp at Gaddanakeri village to pass the message, the bad effects of Gutka consumption. A survey was conducted after one month found 90% of the Gutka consuming people discontinued the bad habit.
- AIDS awareness program was conducted at Yadahalli village
- Helping hand for EYE operation camp at Bagalkot organized by LIONS CLUB
- **Conducted 5 Human Resource development training programs for High school students and trained nearly 350 students in rural areas of Gokak Taluk voluntarily**

Applied for DTE (Director of Technical Education in Karnataka)

As per C&R 2007 and amendment made in 2008 for the DTE post though there were good number of Govt and Govt aided engineering colleges available with highest qualification persons the same was not considered

The possible method of recruitment:

1.

15 b. ii) posts requiring technical qualifications

Three years contract as per KCSR ,1977 page No 259 and 260 article 15 b appoint to the following categories of posts any person who in its opinion is able to discharge the duties of such post on such terms and conditions as may be determined by agreement "provision for appointment of retired government servants and for appointment by contract"

2.Refernce of Dr.K.Balaveerddy as DTE from 1997-2002 (Approximate period) may also be considered

The details shown above are true to the best of knowledge and belief.

(Dr. S. N. Kurbet)