

CURRICULUM VITAE OF PROFESSOR

UNIVERSITY/ INSTITUTION: VTU/BIET, Davangere, Karnataka

1.) Name : Dr.K.Sadashivappa

2.) Educational Qualification :

Graduation & above	Subject	Class	Year	University
BE	Production	I	1984	Mysore
M.Tech	Production	I	1990	Mysore
Ph.D	Mechanical	-	1997	IIT, Madras

Subjects taught with specializations : Production Engineering subjects, Mechatronics, Mechanical measurements and metrology, composites, fluid power, management and entrepreneurship, plant layout, MEMS, world class manufacturing.

3.) Date of Birth :

Month	Date	Year
02	06	1962

4.) Positions held :

Post	From	To	Institution
Lecturer	January 1985	June 1996	BIET
Asst. Professor	July 1996	February 2004	BIET
Professor and HOD	March 2004	Till date	BIET

5.) A) Research publications (give numbers) : List Attached

- a) Referred Journals : International
- b) Other Journals : Nil
- c) Conferences : National and International - List Attached
- d) Books : AICTE CEP course materials

Books chapter	Publication	Year, level
Micro opto mechatronics	AICTE CEP	1998, for Engineering Teachers
Micro Electro Mechanical System Technology	AICTE CEP	1999, for Engineering Teachers
Micro smart sensor	AICTE CEP	2000, for Engineering Teachers
Introduction to stereolithography	AICTE CEP	2001, for Engineering Teachers

B) Research done: Significant contributions

1. Development of hot air jet for cutting glass plates. various parameters like air temperature, velocity, plate thickness etc., are studied. Jet diameter was optimized
2. Development of metal matrix composites. ZA27 garnet reinforced composite material was developed and characterized.
3. Analysis and experimental studies on high speed internal grinding spindles with modified design.
4. Development of wood plastic composites and property evaluation
5. Machining of MMC and GFRP.

6. Micromachining of window glass.

6.) Ph.D's Guided :

Name	Title of thesis	Year	University
E.S.Prakash	Experimental investigations on Thermal cutting of plate glass using hot air jet.	1997	Kuvempu
Prasanna Kumar M	Development and characterization of ZA27 garnet reinforced composite materials	2003	Kuvempu
Thippeswamy Ekbote	Analysis and optimization of fiber reinforced polymer composite leaf spring	4004	VTU (Thesis submitted)
K C Devendrappa	Development of wood plastic composites and property evaluation	2004	VTU (Viva completed)
Jagannatha N	Modeling analysis and experimental investigation of abrasive hot air jet machining for brittle materials	2005	VTU (thesis submitted)
Rajaneesh NM	Machining of MMC (ZA	2006	VTU (In progress)
Muruges MC	Experimental and theoretical investigation of machining epoxy based composite	2006	VTU (In progress)

7.) Awards & Recognitions

	Year	Name
International	-	-
National	1990	Senior research fellowship from CSIR New Delhi
	1999	A letter awarded by AICTE, for completing R & D Project on thermal cutting of plate glass exemplary well
State	-	-

8.) Membership & Fellowship of professional Bodies: (dates)

1. Life member of ISTE, LM 23562, 1997
2. Member of Institution of Engineers (India) Kolkota, M/226351/4

9.) Visits abroad (dates) : (details: Agency, with whom on what and degree/publications)

- a.) Through Scholarships/ Fellowships : -
- b.) Academic Meetings/conference presenting paper/ presiding/ invited speaker: -

10.) Research projects : (Period, Agency, amount)

- a) Individual :
 1. Experimental investigations on Thermal cutting of plate glass using hot air jet, 1997 to 2000, AICTE, Rs 3 Lakhs.
 2. Development and characterization of ZA27 garnet reinforced composite materials, 2003 to 2004, IEI, Rs 0.4 Lakh
 3. Creep facility, Rs 8.5 lakhs granted by VTU R and D fund 2010
 4. Modernisation of CIM lab Rs.14 lakhs, granted by AICTE New Delhi 2011
- b) Special programs like SAP, FIST if you were :

Co-ordinator / Dy Co-ordinator

Co-ordinated

1. ISTE Sponsored STTP on Computer Integrated Manufacturing (CIM) 2002
2. ISTE Sponsored STTP on Micro Machining & MEMS 2003.

11.) Other significant contributions :

a) Administrative position held :

1. Assistant co-ordinator for IGNOU study centre, 1311, 1998 – 2000
2. Exams superintendent at IGNOU study centre, 1311, 1998 – 2000
3. External deputy chief superintendent for VTU Exams, 2000 – 2001
4. Head of IP Engineering department, BIET, Since 2004
5. Chairman, BOE IP/IM of VTU 2010

b) Members of University authorities :

Member of IP Board BOS, VTU, 2006.

c) National International Committees / Assignments : -

d) Special efforts for curriculum development, teaching, evaluation, etc., : -

e) Any other : -

Research publications :

Referred Journals : International/National

Sl No	Title of Paper / Report / Book	Author (s)	Name, Volume, number of journal and year of publication	Page no	
				From	To
1	On the efficiency of axial piston motor considering piston from deviation	Sadashivappa. K Singaperumal M Narayanaswamy K	Int.J of Mechatronics, UK, Vol 6, No 31996	283	301
2	Piston efficiency and friction measurement in hydraulic cylinder in dynamic condition considering from deviations on piston	Sadashivappa. K Singaperumal M Narayanaswamy K	Int.J of Mechatronics, UK, March 2001, Mechatronics 11	251	266
3	Non conventional cutting of plate glass using hot air jet experimental studies	Sadashivappa. K E S Prakash Singaperumal M Vins Joseph	Int.J of Mechatronics, UK, March 2001,		
4	ANALYSIS AND PARAMETRIC OPTIMIZATION OF ABRASIVE HOT AIR JET MACHINING FOR GLASS USING TAGUCHI METHOD AND UTILITY CONCEPT	N. Jagannatha, S.S. Hiremath and K. Sadashivappa	International Journal of Mechanical and Materials Engineering (IJMME), Vol. 7 (2012), No. 1	9	15
5	Effect of temperature on wear rate of Si epoxy eglass polymer composite materials	Basava T , N. Jagannatha, AN Harirao, K. Sadashivappa.	IJ on Manufacturing and material science, Vol 1, No. 2, 2011		
6	Machining of soda lime glass using abrasive hot air jet : An experimental study	N. Jagannatha, S.S. Hiremath , K. Sadashivappa, Arun KV	Machining science and technology today, Vol16(4), Accepted		
7	Effect of spindle speed on thrust force and delamination	MC Murugesh and Sadashivappa	Manufacturing technology, Vol 10, issue	12	19

	factor when drilling glass fiber/epoxy composite laminates		7 July 2011, ISSN 0972-7396		
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Conferences : National and International

1.	Effect of form errors on the hydraulic lock in axial piston pumps and motors	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc of VII All India Fluid power conf., Bengaluru 1992	109	114
2.	Effect of form errors in piston pumps and motors	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc of 15 th AIMTDR conf., Coimbatore, 1992	220	223
3.	Investigation on axial piston motor having piston with form errors	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc of IPROMM, Bengaluru 1995	35	44
4.	Effects of form deviations of pistons on efficiency of hydraulic pumps/motors	Sadashivappa. K	FPSI Madras chapter, 1995		
5.	Influence on form deviation of dynamic friction in hydraulic cylinders	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc of NACOMM, Durgapur, 1996	F7	F12
6.	Dynamic characteristics of a axial piston motor in deep sea simulated environment	Sadashivappa. K Singaperumal M E S Prakash	Proc of Fluid power seminar, 1998, Bengaluru		
7.	Basic preparation of production drawings	Sadashivappa. K	Proc. AICTE – ISTE summer school, 1998		
8.	Computer aided strip layout and die set for blanking and piercing operations	Sadashivappa. K Somashekhar Hiremath	Mechsoft 1998, Dayanand sagar college, Bengaluru		
9.	Qualitative analysis of micro drilled non conductive material drilled by electro chemical spark machining	Sadashivappa. K Somashekhar Hiremath	Proc. Of National conf. on Quality control in metallurgical industries, PSG Tech., Sept 1999	34	40
10.	Strain measurement in glass plate during thermal cutting	Sadashivappa. K E S Prakash	Conf.on precision engg. Copen 2000, IIT, Madras	117	122
11.	ESCM – A new approach for precision micro drilling on non conductive materials	Sadashivappa. K Somashekhar Hiremath Singaperumal M Y Vrushabhendrapa	Copen 2000, IIT Madras, Jan 2000	123	128
12.	Prediction of temp. distribution in plate glass during thermal cutting and surface finish of cut surfaces	Sadashivappa. K Singaperumal M E S Prakash Vins Joseph	19 th AIMTDR conf., IIT, Madras, Dec 2000	179	184
13.	Some performance aspects of micro hydraulic actuators	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc.of first IF to MM micro mechanisms symposium, Tokyo, 1993	161	171
14.	On the torque loss in axial piston motors considering form errors in piston	Sadashivappa. K Singaperumal M Narayanaswamy K Elanchezhiyan	Proc. of 9 th world congress on TOMM Milan, Italy, 1995	965	969
15.	Influence of form deviations on the dynamic performance of micro hydraulic actuator	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc. of 10 th ASPE annual meeting, Austin 1995	309	312
16.	Effect of piston deviation on frictional aspects of hydraulic motor in hyperbaric environment	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc. of Int. colloquium Tribology, Germany, 1996	2217	2222
17.	Characteristics of hydraulic motor in hyperbaric environment	Sadashivappa. K Singaperumal M Narayanaswamy K	Proc. of fluid power Symposim, Yokahama, Japan, 1996	512	523

18.	Thermal cutting of plate glass	Sadashivappa. K Singaperumal M	Proc. of ASPE annual meeting, California, 1996, Vol 14	551	556
19.	Eccentricity measurement of piston in hydraulic cylinders in dynamic conditions	Sadashivappa. K Singaperumal M Narayanaswamy K Bhaskar Dixit C S E S Prakash	Int. conf on Ultra precision manufacturing engg., 1997, Germany		
20.	Precision fabrication and testing of an improved air blast atomizer for aircraft combustor	Sadashivappa. K Singaperumal M Narayanaswamy K B S Samaga	Int. conf on Ultra precision manufacturing engg., 1997, Germany		
21.	Influence of form deviation on frictional characteristics of a micro axial piston motor	Sadashivappa. K Singaperumal M Narayanaswamy K	11 th Int. colloquium Tribology ostfildern, Germany, 1998		
22.	A compact portable air jet gun for thermal cutting of plate glass	Sadashivappa. K Singaperumal M E S Prakash	13 th ASPE annual meeting, USA, 1998 Vol 18		
23.	Influence of coolant temp. on surface finish in turning operation	Sadashivappa. K Singaperumal M E S Prakash	13 th ASPE annual meeting, USA, 1998 Vol 18	104	107
24.	A study on thermal strain on plate glass during thermal cutting	Sadashivappa. K Singaperumal M E S Prakash	Proc. of 14 th ASPE meeting, USA, 1999	184	187
25.	Micro drilling of non conducting material using electro chemical spark machining	Sadashivappa. K Somashekhar Hiremath	Proc. of 14 th ASPE meeting, Oct 1999, USA, Vol 20	188	191
26.	Experimental study on glass cutting speed using hot air	Sadashivappa. K E S Prakash	S10, OPTO 2000, Germany 2000		
27.	A modern machining methods for cutting micro profiles on conducting materials	Sadashivappa. K Somashekhar Hiremath	S9, 4 th Int. conf. OPTO 2000, Germany		
28.	Wear behavior of different mating parts	Sadashivappa. K J Shivakumar	15 th annual meeting ASPE USA, Oct 2000		
29.	Non straight profile cutting on glass using hot air jet	Sadashivappa. K E S Prakash	15 th annual meeting ASPE USA, Oct 2000		
30.	Theoretical Analysis of rigidity and critical speed of a high frequency internal grinding spindle,	D.Ramesh Rao Sadashivappa K	AIMTDR Conferences, December 2004, VIT, Vellur		
31.	Solid modeling, fabrication and testing of a digital pneumatic servovalve,	Sadashivappa. K D.E.Umesh	National Conf. on advances in manufacturing Tech., AMTEG 2005, Pune Inst. Of Engg and Tech, Pune, 21-22 Jan 2005		
32.	Material Characterisation and mechanical properties of ZA alloy metal matrix composite,	Sadashivappa. K M Prasanna Kumar G P Prabhukumar	Recent Trends in Mechanical Engineering, July 2004, Koparagaon		
33.	A study of the dry abrasion	Sadashivappa. K	Int. Conf. at Banaras	17	19

	and mechanical properties of Zinc-Aluminium alloy with reinforced garnet particles	M Prasanna Kumar G P Prabhukumar	Hindu University, Varanasi, Uttarpradesh, December, 2004		
34.	Analysis and optimization of a composite mono leaf spring for heavy duty truck suspension by finite element method	Sadashivappa. K Thippeswamy Ekbote D Ramesh Rao	Banaras Hindu University, Varanasi, Uttarpradesh, Feb 20 – 23, 2007		
35.	Analysis on optimization of a composite monoleaf spring for heavy duty truck suspension by FEM,	Thippeswamy Ekbote Sadashivappa. K	Conference on recent advances in composite Materials 20 – 23 February 2007, BHU Varanasi		
36.	Mechanical properties of wood filled epoxy	K C Devendrappa Sadashivappa. K	Composites ICAMT – 08, February 6 – 8, 2008, IIT Madras		
37.	Experimental Investigation of flexural strength of wood power filled epoxy composites,	K C Devendrappa Sadashivappa. K	International Conf. on ISTAM -08, Dec 27-30, 2008 at Osmania Univ. Hyderabad		
38.	Mechanical characterization of wood plastic composites under wet condition	K C Devendrappa Sadashivappa. K	Int Conf on COPEN 6, Dec 11-12 2009, PSG tech Coimbatore		
39.	Experimental investigation on flexural properties of wood polymer composites under wet conditions	K C Devendrappa Sadashivappa. K	Int. conf. on RETMAC 2010, Feb 14-15, 2010, NITK Surathkal		
40.	Experimental investigation on fracture properties of wood polymer composites under wet conditions	K C Devendrappa Sadashivappa. K	Int. conf on FIME 2010, May 22-24, 2010 NITK Surathkal		
41.	Experimental investigations of mechanical properties of wood filled epoxy composites	K C Devendrappa Sadashivappa. K	National conf. on AMMP 07 , Oct 5-6, 2007, UBDTEC, Davanagere		
42.	Vibrational characteristics of wood filled epoxy composites	K C Devendrappa Sadashivappa. K	National Conf. on MITM 07, Dec 24-25, 2007, Indore		
43.	A study on effect of air temp. on MRR of abrasive jet machining.	N. Jagannatha, S.S. Hiremath , K. Sadashivappa	Int. conf. on ICAME 2007, Oct 24-26, 2007, MIT Manipal	81	
44.	Static and modal analysis of mono leaf composite spring for light passenger vehicle suspension	Thippeswamy Ekbote Sadashivappa. K	International Conf. on ISTAM -08, Dec 27-30, 2008 at Osmania Univ. Hyderabad		
45.	Optimal design and analysis of mono leaf composite spring by finite element analysis	Thippeswamy Ekbote Sadashivappa.	IEEE Int conf. ICAESM March 30-31, 2012, Tamilnadu		
46.	Analysis of mono leaf reinforced glass/epoxy composite spring used in light passenger vehicle suspension for its ststic and	Thippeswamy Ekbote Sadashivappa.	Int. conf on FIME 2010, May 22-24, 2010 NITK Surathkal		

	modal characterisation				
47	Machinability aspects of polymer epoxy composites- a review	MC Muruges and Sadashivappa	AMMP 07, UBDT EC DAVANAGERE, 2007		
48	Mechanism of translaminar fracture in glass fabric polymer composites	MC Muruges and Sadashivappa	ICOST, Dhule Maharashtra, Jan 2011		