

Curriculum Vitae of Bangalore Somashekar Ajay Kumar



Brief Summary

Born on October 01st 1957, Bangalore, State of Karnataka. He received his Bachelors Degree in Mechanical Engineering from the University of Bangalore (1980), Master of Technology from the University of Bangalore, Bangalore (1982) and Ph.D., in cryogenically treated cutting tools, from University of Bangalore, Bangalore (2009). He has having teaching experience of 34 Years and currently working as Professor, Department of Mechanical Engineering, Bangalore Institute of Technology, Bangalore, India since 1982 and has published **25** papers in international and national peer reviewed journals and proceedings of conferences. Also guided more than 100 projects (B.E.) & 15 in M.E & 15 in MBA of KSOU, Mysore.

Personal Details

01. NAME	:	Dr. B. S. AJAYKUMAR
02. DATE OF BIRTH	:	1 st October 1957
03. QUALIFICATION	:	B.E. (Mechanical Engg.), M.Tech. (Production Engg.) Ph.D. (Cryogenically treated cutting tools)
04. NAME OF UNIVERSITY	:	B.E. (Bangalore University), 1980
Graduation / Post - graduation / Doctorate		M.E (Bangalore University), 1982 Ph.D. (Bangalore University), 2009
05. SEX / MARTIAL STATUS	:	Male / Married
06. NATIONALITY / RELIGION		Indian / Hindu
07. WIFE'S NAME		Mrs. Manjula
08. FATHER' S NAME		Sri. Somashekar
09. MOTHER'S NAME		Smt. Seethamma

10. **ADDRESS FOR COMMUNICATION**
(Residential Address : Bangalore) Dr. B. S. AJAYKUMAR
#168, KARTHIK, II main road,
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Karnataka State, India.
- Office / College Address Dr. B. S. AJAYKUMAR
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13. COMPUTER-LANGUAGES KNOWN; Microsoft office,excel..
14. **PROJECT WORK DONE AT B. E., M. E. & Research (UG / PG / Ph.D.) LEVEL :**
- B.E. :** “*Evaluation of performance of Oxtrike rickshaw*” guided by Prof. Saravanan,
Professor, Department of Mechanical Engineering, R V College of Engineering,
Bangalore, Karnataka, India ,sponsored by KSCST-Cell (IISc).
- M.E.:** “*Section Sensitivity of Thin wall A-11 Castings by Counter Gravity Process*” guided by
Dr. M.P Chowdaiah, Professor, UVCE, Bangalore, Karnataka, India.
- Ph.D.:** “*Cryogenically treated cutting tools*” guided by Dr. S Gopalprakash, Professor, UVCE,
Bangalore, Karnataka, India.
15. **COUNTRIES VISITED (FOREIGN VISITS) :Singapore, Malaysia, Thailand**
Maldivies Nepal

16. **MEMBERSHIP OF PROFESSIONAL BODIES :**

- a) Life member of the Indian Society for Technical Education (ISTE), LM.
- b) Fellow Member of the Institution of Engineers (IEI),
- c) Life Member of Indian Welding Society, LM- and general secretary for Bangalore chapter

17. **EDUCATIONAL / ACADEMIC QUALIFICATIONS :**

Sl. No.	Class / exam passed	Division / Class obtained / %	Year of Passing	School / Board / College / University Studied
1	S.S.L.C.,	I Class	1973	Govt. High School, Karwar, North Canara Dist. Karnataka State.
2	P.U.C.,	I Class	1975	Govt. Junior College, Chickmangalur Dist. Karnataka State
3	B.E., (Mechanical Engg.)	I Class	1980	R.V College of Engineering, Bangalore
4	M.Tech.(Production engg. & System Technology)	I Class	1982	UVCE Bangalore
5	Ph.D	Cryogenically treated cutting tools- Bangalore University		

18. **EMPLOYMENT DETAILS : (WORK EXPERIENCE / RESEARCH EXPERIENCE) :**

Academic / Teaching Experience :

working in Bangalore Institute Technology, Bangalore, since Oct. 1982 in Department of Mechanical Engineering.

- Total Teaching Experience: **34 yrs.**

Total Research Experience : 33 years

19. **SUBJECTS TAUGHT IN THE VARIOUS COLLEGES WHERE WORKED / WORKING :**

Subjects handled both at UG/PG - Manufacturing Process – I, II, & III, Operational Management, Organizational behavior and Professional communication, Industrial Management, Management & Entrepreneurship, Elements of Mechanical Engineering

Materials management , Financial Management and Costing, World class Manufacturing, Project management, Quantitative techniques in decision making, Quality and Reliability engineering, Total Quality management, Industrial engineering and Statistical Quality control, Advance joining process, Management Technology, Simulation and modeling, Mechanical measurements and Metrology

20. **NATURE OF WORK DONE IN ACADEMIC INSTITUTIONS / RESEARCH INSTITUTIONS :**

- Taught many of the Mechanical & Management theory subjects,
- Incharge - Forging & Foundry Lab, Machine shop
- Administrative works as Placement co-ordinator, Alumni co ordinator, MANTHAN college magazine co ordinator and Student Welfare Officer
- NBA files preparation, updation,
- Handled various labs in the various colleges & doing departmental works & College, Work. IA tests duties, Exam duties,
- Counseling the students, talking with their parents during the parents-teachers meeting,
- Motivating and helping the faculties in the department to do R & D work, publish papers,
- Paper setting, External examiner, Internal examiner, Moderator,
- Arranging of seminars. Conducting guest lecturers / expert lectures,
- Development of laboratory manuals for performing the practical's,
- Project work guidance for B.E. students,
- As external guide for guiding project works in other engineering colleges,
- As a Squad Chief / Chairman in VTU examinations,
- As Chief Superintendent & Deputy Chief Superintendent in the college for conducting VTU exams.

- Board of studies Member for UG,PG and Ph.D Programmes at Dept of Mech engineering,UVCE,Bangalore since 3 years, and also BOE Member .at different Autonomous institution

21. **SPECIAL ACHIEVEMENTS :**

- Guided more than **130** project works in the final year B.E. in various engineering colleges.
- Recognized as a **Guide** for **MBA** of Karnataka State Open University, Mysore Guided more than **15 projects** in Materials management Techniques, Finance and Industrial Engineering Applications Handled classes for **KSOU** Students in MIS and Organizational Behavior and Professional Communication subjects
- **Board of Studies Member** for Dept of IEM at Dr.AIT,Dept of Mech U.V.C.E Bangalore.
- **Board of Examiner** to Review the papers for VTU and U.V.C.E
- **Guided Inventory management and Quality control Projects for engineering students** who carried out Work at Toyota kirloskar plant at Bidadi and Mico-Bosch Plant at

Audugodi plant Bangalore

- **Coordinator** to conduct **National level Swimming Competition** Conducted by BIT and Sponsored by VTU.
- Written four Text books for Engineering students:

NAME OF THE FACULTY MEMBER	NAME OF THE BOOK	NAME OF THE PUBLISHER	YEAR OF PUBLICATION
B.S.AJAYKUMAR	FINANCIAL MANAGEMENT AND ACCOUNTING	POOJA PUBLICATIONS	MAY 1998
B.S.AJAYKUMAR.	MANAGEMENT AND INFORMATION SYSTEMS	POOJA PUBLICATIONS	NOV 1999
B.S.AJAYKUMAR	ENGINEERING ECONOMY	SUBASH PUB	APR 2002
B.S.AJAYKUMAR	MANAGEMENT AND ENTREPRENEURSHIP	SUBASH PUBLICATIONS	SEPT 2008

22. **SEMINARS / WORKSHOPS ATTENDED, PRESENTED & PARTICIPATED**

- [1] **Restructuring Technical Education to meet the Global Industrial Needs**, seminar held on 17 and 18 Nov 06, at BIT, Bangalore.
- [2] **Workshop on Human Resource Development**, Faculty Development Program Held on 20 and 21 Feb 04, at BIT, Bangalore
- [3] **Workshop on Latest Trends in Manufacturing Processes**, Faculty Development Program held in March 2009, at BIT, Bangalore.
- [4] **Workshop on Entrepreneur Development Process** held in July 2010, at BIT, Bangalore.

23. **Publications in National & International Journals / Conferences / Symposiums /**

Books / Patents / Monographs

No. of International Journals	:	12
No. of International Conferences	:	12
No. of National Conferences	:	118
Total No. of Paper Publications	:	30+

National Conferences

- [1] K.S. Ravi Kumar, T.V. Sreerama Reddy, **B.S. Ajay Kumar**, Dr.R. Venkatram, Dr. S Gopal Prakash and Dr.M.Venkataramareddy, “Effect of cryogenic treatment on tool life of coated carbides”, ETIME-06, BMS College of Engineering, 2006.
- [2] Chandrasekhar A and **B S Ajay kumar**, Mechanical and Micro structural characterization of an aluminum alloy tungsten inert gas welded butt joint, National Conference on Thrust Areas in Engineering, Global Academy of Technology, Bangalore, 20-21 Jan 2012.
- [3] Chandrashekar A, Yuvaraj Naik, Babu E R, Preethi K H and **B S Ajay kumar**, *Comparison of Mechanical & Microstructural behavior of Tungsten Inert Gas welded and Metal Inert Gas welded Aluminum alloy AA 5083*, National Conference on Emerging Trends in Mechanical Engg ETME’12, Rajarajeshwari College of Engg., Bangalore, 24-25 Feb 2012, pp 29-34.
- [4] Chandrashekar A, Babu E R, **B S Ajay Kumar** and P Raghothama rao, *Mechanical and Metallurgical Properties of Friction Stir Welding of Aluminum alloy AA5083*, East West Institute of Technology, Bangalore, Developments and opportunities in civil Engineering and Applied Sciences, DOCAM 2012, 18th -19th May -2012.
- [5] Chandrashekar A, Ananda kumar V, Chandramohan B S, **B S Ajay kumar** and P Raghothama rao, *Evaluation of Mechanical and Structural properties of Friction stir welded Aluminum Alloy*, Sri Venkateshwara College of Engineering and Technology, Tamilnadu, pp 148-150, 2012.

[6] Arjun kamath, Rohith G, Chandrashekar A and **B S Ajay kumar**, *Mechanical and Structural Characterization of an AA6061-T4 Tungsten Inert gas welded butt joint*, Sri Venkateshwara College of Engineering and Technology, Tamilnadu, pp 160-163, 23-24 Aug 2012.

[7] Chandrashekar A, Chandramohan B S, Ananda kumar V and **B S Ajay kumar**, *Behavior of MIG welded aluminum alloy –AA 5083*, National Conference on Recent Advances in Mechanical Engg. & their Impact on Indian Industries, Poojya Doddappa Appa College of Engineering and Technology, Gulbarga, 20-22 Sep 2012.

International Conferences

[1] Chandrashekar A, Ananda kumar V, **B S Ajay kumar** and P Raghothama rao, *Investigation of the Structural and Mechanical Properties of Friction stir welded Aluminum Alloy*, International Conference on Advancements & Futuristic Trends in Mechanical & Materials Engg., (AFTMME'12), Punjab Technical University, Punjab, 5-7 Oct 2012.

[2] Chetan Byrappa, Prashanth K.J, **Ajay Kumar B.S**, M.V. Chandrashekar “Development of PVDF films as a precision vibration sensing and damping equipment” Joint International Conf. on Advanced Materials-2011, ICAM 2011, BTL Inst. of Tech., India & University of Delaware, USA.

[3] A Chandrashekar, Anandkumar V, **B S Ajaykumar** , Babu E R , and H N Reddappa, *Friction Stir Welding of Butt Welded Aluminum alloy AA5083*, International Conference on Emerging Trends in Engineering and Technology, (ICETET'13), Marthandam college of Engg., Marthandam, Tamilnadu, 21-22 Feb 2013.

[4] Mayur.S, Pavan.K.M, Sachin.L.S, Chandrashekar.A and **B.S. Ajay Kumar**, *Effect of welding current on the Structural and Mechanical Properties of TIG welded*

Aluminium Alloy 5083, International Conference on Advances in Mechanical, Automobile and Aerospace Engg., Jawaharlal Nehru University, New Delhi, India, 21st & 22nd Sep 2013.

- [5] Chandrashekar A & **B S Ajay Kumar**, *Welding characteristics of Aluminium Alloy (5083) weldmets, using GMAW & GTAW*, International Conference on Advancements & Futuristic Trends in Mechanical & Materials Engg., (AFTMME'13), Punjab Technical University, Jalandhar, Punjab, 3rd -6th Oct 2013.
- [6] Chandrashekar A, Arunachalam.C, M V Sureshgowda and **B S Ajaykumar**, *Microstructure And Mechanical Properties Of Metal Inert Gas Welded Aluminium Alloy 5083*, First International Conference on Emerging Trends in Engineering and Technology – 2013, 4th -5th Oct 2013, Munnar, Kerala, India.

International Journals

- [1] Nadish Roy, Sachin Keshavan, Chandrashekar A, **B S Ajay kumar** and M Chowdegowda, *Metal Inert gas welding behavior in Al-Zn Based aluminum alloy 7075*, International Journal of Engineering and Manufacturing Science, ISSN 2249-3115, Vol.2, Jan-Jun 2012, Pp 22-30.
- [2] Yashpal D., Vijaya Kumar S.P., Chandrashekar A., **B.S. Ajay Kumar** and P. Raghothama Rao, *Mechanical and Structural Characterization of GTAW Butt Joints of AA5083 Aluminum Alloy*, International Journal of Engineering Research and Technology, Volume 5 Number 2, 2012, pp. 183-189.
- [3] Chandrashekar A, Ananda kumar V, **B S Ajay kumar** and P Raghothama rao, *Investigation of the Structural and Mechanical Properties of Friction stir welded Aluminum Alloy*, Asian Review of Mechanical Engg., (ARME), ISSN 2249-6289,

Vol-1, No-2, Jul-Dec 2012, Pp 41-44.

- [4] Chetan Byrappa, **Dr. Ajay Kumar B.S**, M.V. Chandrashekar, Anupama H
“Development of PVDF-Ultrasonic Sensor Based Aircraft Landing Gear Control
System” International Journal of Mechanical Engineering Research.ISSN 2249-
0019 Volume 2, Number 3 (2012), pp. 261-268.
- [5] Chetan Byrappa, **Dr. B.S.Ajaykumar**, Anupama.H – “Applications of PVDF” -
International Journal of Mechanical Engineering & Robotics Research (ISSN
2278- 0149) IJMERR /Vol. II/ No. 1/ January 2013.
- [6] Mayur.S, Pavan.K.M, Sachin.L.S, Chandrashekar.A and **B.S. Ajay Kumar**,
*Effect of Welding Current on the Mechanical and Structural Properties of TIG
Welded Aluminium Alloy AA-5083*,International Journal of Mechanical
Engineering and Research. ISSN No. 2249-0019, Volume 3, Number 5 (2013),
pp. 431-438.

Note: Typical Paper publications At National International Conferences as well
as national and International journals