

## Sreejith B



**Address:** Sreenilayam, Arangadath, Melur (P.O.), Koyilandy, Kozhikode – 673 306, Kerala

E-mail: sreejith@geckkd.ac.in

### Academic Qualifications:

Qualification	University	Institute
B Tech	University of Calicut	Government College of Engineering, Kannur
MBA	IGNOU, New Delhi	-
M Tech	-	IIT Madras
Ph D	-	IIT Bombay

### Areas of Interest:

Operations management, Maintenance Engineering and Management, Reliability Engineering

### Experience

#### Industrial:

Sl No	Name and Address of the Organisation	Post Held	Duration Of Service		Experience Y/M			
			From	To	T	R	Ind	Total
1	Grasim Industries Limited, Mavoor, Kozhikode, Kerala – 673 661	Mechanical Engineer	24.05.1995	09.06.1999	-	-	4 Y	4Y

## Teaching:

Sl No	Name of the Institution	Designation	Duration Of Service		Service	
			From	To	Years	Months
1	Government College of Engineering, Kannur, Kerala – 670 567	Lecturer	11.06.1999 FN	15.07.2003	4	1
2	Government Engineering College, Kozhikode – 670 563	Lecturer	16.07.2003 FN	30.10.2006	3	3
3	Government Engineering College, Kozhikode – 670 563	Associate Professor	31.10.2006 FN	19.07.2009	2	9
4	Government Engineering College, Idukki – 685 603	Associate Professor	20.07.2009 FN	10.06.2010 AN	-	11
5	Government Engineering College, Kozhikode – 670 563	Associate Professor	11.06.2010 FN	Still continuing	5	0

## Achievements

- Received award from 'The Society for Reliability Engineering, Quality and Operations Management (SREQOM)' for leadership and research excellence in "Prognosis of Rolling Element Bearings" on December 2010.
- Received appreciation award of National Service Scheme (NSS), Technical Cell, Kerala for the service as programme officer on February 2007

## Projects

- A research project entitled 'Savonious wind turbine with guide blades' was selected for financial assistance from TEQIP R&D Head and an amount of Rs. 85,000/- was sanctioned by the research guidance committee on 17<sup>th</sup> January 2014.

## Publications

### International Journals

1. A. K. Verma, B. Sreejith and A. Srividya, 'Bearing Defect Prognosis using Likelihood Parameters and Proportional Hazards Model', International Journal of Performability Engineering, ISSN 0973-1318, 6 (5), September 2010, 425 – 434, Available at

- <http://www.ijpe-online.com/p2-roller-bearing-defect-prognosis-using-likelihood-parameters-and-proportional-hazards-model.html#axzz2hPNQx1KH>
2. Srividya, A. K. Verma and B. Sreejith, 'Automated diagnosis of rolling element bearing defects using time domain features and neural networks', International Journal of Mining, Reclamation and Environment, ISSN 1748-0930 (Print), 1748-0949 (Online), 23 (3), 2009, 206 – 215. (Received 5 citations as per Google Scholar till 15th September 2014), Available at [http://www.tandfonline.com/doi/abs/10.1080/17480930902916437?journalCode=nsme20#.UlfM\\_oami5U](http://www.tandfonline.com/doi/abs/10.1080/17480930902916437?journalCode=nsme20#.UlfM_oami5U)
  3. Verma A.K., Sreejith B., 'Rolling Element Bearing Fault Diagnosis using Adaptive Morlet Wavelet Filter', International Journal of COMADEM, ISSN: 1363-7681, 12 (4), 2009, 25 – 32, (Received 2 citations as per Google Scholar till 15th September 2014), Details available at <https://getinfo.de/app/Rolling-Element-Bearing-Fault-Diagnosis-using-Adaptive/id/BLSE%3ARN259542650>
  4. Sreejith B., Verma A.K., Srividya A., 'A generalized model for simulation of rolling element bearing vibration signals', Communications in Dependability and Quality Management, ISSN: 1450 – 7196, 12 (1), 2009, 82 – 90, Details available at <http://scindeks.ceon.rs/article.aspx?query=ISSID%26and%267096&page=8&sort=8&stype=0&backurl=%2Fissue.aspx%3Fissue%3D7096>
  5. B. Sreejith, K. Jayaraj, N. Ganesan, C. Padmanabhan, P. Chellapandi and P. Selvaraj, 'Finite Element Analysis of fluid – structure interaction in pipeline systems', Nuclear Engineering and Design, ISSN: 0029-5493 , 227 (3), February 2004, 313 – 322. (Received 50 citations as per Google Scholar till 15th September 2014) Available at <http://www.sciencedirect.com/science/article/pii/S0029549303003601>

### **National Journal**

1. B. Sreejith, A. K. Verma, A. Srividya and S. V. Lakha, "Rolling element bearing fault detection using time-domain features and neural networks", Indian Journal of Tribology, 4(2), 7-13, 2009.

### **International Conferences**

1. Sreejith B., Verma A.K. and Srividya A., Comparison of Morlet wavelet filter for defect diagnosis of bearings, in proceedings of 2nd International Conference on Reliability, Safety and Hazard (ICRESH 2010), Print ISBN: 978-1-4244-8344-0, 14-16 December 2010, Navi Mumbai, India, pp 406 – 411. Available at : [http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5779584&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs\\_all.jsp%3Farnumber%3D5779584](http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5779584&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D5779584)
2. B. Sreejith, A. K. Verma and A. Srividya, Using log-likelihood values for condition monitoring of rolling element bearing, Proceedings of 22nd

International Congress on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2009), 9 - 11 June, 2009, San Sebastian, Spain, pp. 121-128, (Received 2 citations as per Google Scholar till 15th September 2013).

3. B. Sreejith, A. K. Verma, and A. Srividya, "Fault diagnosis of rolling element bearing using time-domain features and neural networks," in Proceedings of the IEEE Region 10 Colloquium and 3rd International Conference on Industrial and Information Systems (ICIIS '08), E-ISBN : 978-1-4244-2806-9, Print ISBN: 978-1-4244-2806-9, vol. 409, pp. 1–6, Kharagpur, India, December 2008. (Received 43 citations as per Google Scholar till 15th September 2014), Available at : <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=4798444>
4. A. K. Verma, A. Srividya and B. Sreejith, "Fault detection for condition based maintenance of rolling element bearings using Haar discrete wavelet transform", in proceedings of the International Conference on Reliability Safety and Quality Engineering (ICRSQE 2008) published by Macmillan India Limited, ISBN 0230 – 63441 – 9, pp. 360 – 368, Mumbai, India, January 05 – 07, 2008.
5. B. Sreejith, A. K. Verma and A. Srividya, "Fault detection using Morlet wavelet filter for condition based maintenance of rolling element bearings", in proceedings of the International Conference on Reliability Safety and Quality Engineering (ICRSQE 2008) published by Macmillan India Limited, ISBN 0230 – 63441 – 9, pp. 494 - 501, Mumbai, India, January 05 – 07, 2008.

### **National Conferences**

1. Ajeesh A. S., Bidhin Raj K., Manu Murukesan, Jinshah B. S. and Sreejith B., "CFD analysis of Savonious wind turbine with overlapped blades", in proceedings of the 2<sup>nd</sup> national conference on emerging trends in Engineering (NET 2014), pp. 229 – 234, Kozhikode, India, August 29 – 30, 2014.
2. Jinshah B. S., Sreejith B., "Savonious wind turbine with guide blades", in proceedings of the 4<sup>th</sup> national technological congress Kerala (NATCON 2014), pp. 39 – 44, Wayanad, India, February 20 - 21, 2014.

### **Presentations**

#### **International Conferences**

1. B. Sreejith, A. K. Verma, and A. Srividya, "Maintenance forecasting of bearings using Weibull proportional hazards model", presented at 8th triennial conference of Asia Pacific Operational Research Societies (APORS), December 6 – 9, 2009, Jaipur, India.

2. Sreejith B., Verma A.K. and Srividya A., Detection of localized defects in rolling element bearings using time domain analysis of vibration signal, presented at fourth International Conference on Quality, Reliability and Infocom Technology (ICQRIT 2009), 18-20 December 2009, Delhi, India.
3. A. Srividya, A. K. Verma, B. Sreejith and S. V. Lakha, "Defect Diagnosis of Rolling Element Bearings using Morlet Wavelet Filter", in Proceedings of the 11th International Conference on Quality and Dependability (CCF 2008), Sinaia, Romania, 24-26, September 2008.
4. B. Sreejith, A. K. Verma and A. Srividya, "Optimization of Morlet wavelet filter using kurtosis for fault diagnosis of rolling element bearings", presented at 40th Annual convention of Operational Research Society of India, New Delhi, India, December 04 – 06, 2007.

### **National Conferences**

1. Ciju Paul, B. Sreejith and V. Pugazhendhi, "Applications of spike energy in condition monitoring of antifriction bearings", Extended conference on advances in Mechanical Engineering, Palakkad, India, March 2005.
2. Sreejith B., "Modern trends in eddy current testing", Advances in manufacturing technology (AMT 2003), Palakkad, India, February 15 -16, 2003.

### **National Conference Co-ordinated**

1. Second national conference on Energy and Sustainable Technologies (NET 2014), August 29 – 30, 2014 at Government Engineering College, Kozhikode, India sponsored by TEQIP.

### **Faculty Development Programmes Co-ordinated**

1. Teaching – a multi tasking service, Government Engineering College, Kozhikode, March 17 -21, 2014, sponsored by TEQIP.
2. Pollution and its control – strategies and techniques, Government Engineering College, Kozhikode, February 07 – 19, 2005, sponsored by DTE, Kerala.

### **Faculty Development Programmes attended**

1. Renewable and unconventional energy for sustainable future, Government Engineering College, Kozhikode, Sponsored by TEQIP, July 22 – 26, 2013.
2. Tools for Engineering Research, Government Engineering College, Kozhikode, Sponsored by TEQIP, March 25 – 29, 2013.
3. Advances in Design Optimization, Government Engineering College, Kozhikode, Sponsored by TEQIP, March 18 – 23, 2013.

4. E-waste management, Government Engineering College, Kozhikode, Sponsored by TEQIP, March 12 – 16, 2013.
5. Role of power electronics in energy conservation, Government Engineering College, Kozhikode, Sponsored by TEQIP, February 26 - March 2, 2013.
6. Institutional leadership for Government Engineering Colleges, Kozhikode and Kannur, Indian Institute of Management Kozhikode, Sponsored by TEQIP, February 20 – 22, 2013.
7. CAD/CAM/CAE & CNC/Robotics programming, Government College of Engineering, Kannur, Sponsored by DTE, February 1 – 6, 2010.
8. System simulation tools, Government Engineering College, Kozhikode, Sponsored by DTE, February 20 - March 5, 2005.
9. Faculty development programme in entrepreneurship, National Institute of Technology, Kozhikode, December 28, 2003 – January 9, 2004.
10. Computational methods in heat transfer and fluid flow analysis, Government College of Engineering, Kannur, Sponsored by DTE, February 17 – March 1, 2003.
11. Internet and e-commerce, College of Engineering, Chengannur, Sponsored by ISTE, December 18 – 30, 2000
12. Engineering applications of natural fibres, Government College of Engineering, Kannur, Sponsored by DTE, December 4 – 16, 2000.
13. Maintenance Engineering and Management, Government College of Engineering, Kannur, Sponsored by DTE, February 22 – March 6, 2000.
14. Induction training programme for teachers, College of Engineering, Thiruvananthapuram, Sponsored by DTE, November 22 – December 3, 1999.

### **Training Programmes / Workshops attended**

1. CEP course on 'Energy Management,' Indian Institute of Technology Bombay, November 18 – 22, 2013.
2. IIC workshop on 'Advanced research for high tech R & D', Government Engineering College, Kozhikode, September 5 – 7, 2013, Sponsored by TEQIP.
3. CEP course on 'A novel paradigm for reliability modeling in software,' Indian Institute of Technology Bombay, April 5 – 9, 2008.
4. Workshop on 'Linux Fundamentals', Kanwal Rekhi School of Information Technology, Indian Institute of Technology Bombay, August 19 -20, 2006
5. Orientation training course for the programme officers of the National Service Scheme, NSS TOC, Kalamassery, July 22 – 31, 2003.

## Membership of Professional Bodies

Sl. No	Name And Address of Professional Body	Type of Membership	Date and Year of Registration	Membership No.
1	Indian Society for Technical Education (ISTE)	Life Member	03.05.2000	LM 28441
2	Institution of Engineers (India)	Life Associate Member	17.05.2001	AM/087431/3
3	Operational Research Society of India (ORSI)	Life Senior Member	10.03.2009	0822/B/09/M L

## Positions of Responsibility

- Head, Department of Mechanical Engineering, Government Engineering College, Kozhikode, from 2015
- Teacher Association (PTA), Government Engineering College, Kozhikode, from 2014-2015
- UG Dean, Government Engineering College, Kozhikode, 2014-2015
- Appellate Authority for providing information under RTI act 2005, Government Engineering College, Kozhikode from 23.10.2013
- Department academic coordinator, TEQIP, Government Engineering College, Kozhikode, from 2013 to 2014
- Centralized Valuation Camp Director, University of Calicut at GEC, Kozhikode, from 2012 to 2015.
- Coordinator (Mechanical Engineering), Centralized Valuation Camp, University of Calicut at GEC, Kozhikode, from 2011 to 2015.
- Member of the Inspection Committee constituted for inspection of the conduct of Laboratory Examinations at Engineering Colleges under University of Calicut. From 2010 to 2014.

- Time Table co-ordinator, Department of Mechanical Engineering, Government Engineering College, Kozhikode, 2010 - 2014
- Placement Officer CGPC, Government Engineering College, Kozhikode, 2010-2013
- Member, College Council, Government Engineering College, Kozhikode, 2010-2013
- HOD, General Engineering Department, Government Engineering College, Idukki, 2009 – 2010
- Programme Officer, National Service Scheme (NSS), Government Engineering College, Kozhikkode, 2003-2006

### **Additional Academic / Professional Activities**

- Served as referee for International Journal of Systems Assurance Engineering and Management (IJSA)
- Served as referee for
  - o Second International Conference on Materials, Mechanics and Management, IMMM2014, College of Engineering, Trivandrum, December 17 – 19, 2014
  - o Second National Conference on Energy and Sustainable Development (NET 2014), Government Engineering College, Kozhikode, August 29 – 30, 2014
  - o Third International Conference on Materials for the Future – Innovative Materials, Processes, Products & Applications (ICMF 2013), Government Engineering College, Thrissur, November 6 – 8, 2013.
- Delivered lectures on
  - o 'Reliability Engineering' on 12<sup>th</sup> March 2014 FN, and 'Life Testing and Reliability Estimation' on 12<sup>th</sup> March 2014 AN, during the STTP on 'Hybrid Renewable Energy Sources and Systems' sponsored by DTE, at Government Engineering College, Wayanad.
  - o 'Advances in Reliability Engineering' during 24<sup>th</sup> and 27<sup>th</sup> of July 2013 at Government College of Engineering, Kannur under Visiting Faculty Programme
  - o 'Total Productive Maintenance' on January 27, 2005 during the Short Term Course on 'Energy and Environment Conservation for Sustainable Development' conducted at GEC, Kozhikode sponsored by DTE.
- Served as external examiner for evaluation of M Tech Thesis
  - o Government Engineering College, Thrissur – 2014 and 2015
- Chaired a technical session in the second national conference on Energy and



Sustainable Technologies (NET 2014) conducted at Government Engineering College, Kozhikode during August 29 – 30, 2014.

- Provided consultancy service to Government Mental Hospital, Kozhikode regarding clean, safe and efficient energy utilization at kitchen and other utilities during December 2011.

#### **Laboratories Developed at Government Engineering College, Kozhikode**

- Instrumentation lab with latest test benches and instruments and introduction of some new experiments during the period 2003-2006

#### **Other achievements**

- Qualified internal auditor for ISO 9000:2000

Dr. Sreejith B.