

Name

**SHRAVANKUMAR B. KERUR**  
**Principal & Professor**  
Department of Mechanical Engineering  
Biluru Gurubasava Mahaswamiji Institute  
Of Technology, Mudhol – 587 313



**Work Experience**

**: 2 years Industry**  
**19 years Teaching**

### Education

Qualification	Specialization	Institute	Year of award
Ph.D.	Aerospace Engineering	Indian Institute of Technology, Kharagpur	2013
M. Tech.	Machine Design	Basaveshwar Engineering College, Bagalkot	2006
B. E	Industrial Production Engg	Basaveshwar Engineering College, Bagalkot	1996

**Areas of interest**

**Strength of Materials, Machine Design, FEA, Composite/Smart Materials, Vibration, Fluid Structure Interaction**

**Subjects Taught for:  
M.Tech. and B.E. Courses**

: Strength of Material, C Programming, Operations Research, Machine Design, Finite Element Methods, Fracture Mechanics, Mechanics of Composite Materials and Structures, Advanced Theory of Vibrations, Dynamics and Mechanism Design, Computer Graphics

**Projects Sanctioned:** VGST K-FIST (L1) Rs. 20,00,000, 2014-15, Grant from Govt. of Karnataka to establishing Smart Composite Structures Research Center (SCSRC)

Publication in International Journals : 09

Publication in International Conferences : 14

Projects guided for M.Tech. (Last Three Years): 27

Projects guided for B.E. (Last Three Years) : 10

KBITS Projects selected (Last Three Years) : 03

KBITS Projects applied this years : 05

Workshops conducted (Last Three Years) : 05

Workshops attended as Resource Person : 10  
(Last Three Years)

Hobbies: Reading books, Travelling, watching movies and cartoons & sports.

### List of Publication in International Journals:

1. **Kerur, S.B. and Ghosh, A.**, Geometrically nonlinear bending analysis of piezoelectric fiber Reinforced composite (mfc/afc) cross ply plate under Hygrothermal environment (Part-I), *Journal of Thermal Stresses*, 36:12, 1255-1282, 2013, DOI: 10.1080/01495739.2013.818887
2. Prabhuraj Kumbar, **S.B.Kerur** and Shankar H. Sanni, Experimental Validation Of Geopolymer Concrete Flexural Beams Using Ansys, *International Journal of Advances in Management, Technology and Engineering Sciences*, Vol. 2, Issue 9(VI), pp. 102-106, June 2013 ISSN:2249-7455.
3. Nagaraj Kantli and **S.B.Kerur**, Static Analysis of Composite Spur Gear, *International Journal of Advances in Management, Technology and Engineering Sciences*, Vol. 2, Issue 9(VI), pp. 1-4, June 2013 ISSN:2249-7455.
4. **Kerur, S.B. and Ghosh, A.**, Active Control of Geometrically Non-Linear Transient Response of Smart Laminated Composite Plate Integrated with AFC Actuator and PVDF Sensor, *Journal of Intelligent Material System & Structures*, Vol. 22(11), pp. 1149-1160, July 2011.
5. **Kerur, S.B. and Ghosh, A.**, Active Vibration Control of Composite Plate Using AFC Actuator and PVDF Sensor, *International Journal of Structural Stability and Dynamic*, Vol. 11(2), pp. 237-255, 2011.
6. **Kerur, S.B. and Ghosh, A.**, Active Vibration Control of Geometrically Nonlinear Smart Composite Shell (*Under Review, ASME Journal of Vibration and Acoustics*).
7. **Kerur, S.B. and Ghosh, A.**, Active Control of Geometrically Non-Linear Transient Response of Smart Laminated Composite Plate/shell Integrated with MFC Actuator and PVDF Sensor Under Hygrothermal Environment (*Communicated*)
8. **Kerur, S.B. and Ghosh, A.**, Geometrically nonlinear bending analysis of piezoelectric fiber Reinforced composite (mfc/afc) angle ply plate under Hygrothermal environment (Part-II) (*Communicated*)
9. Nagaraj Kantli and **S.B.Kerur**, Dynamic Analysis of Composite Spur Gear, (*Communicated*)

### List of Publication in International Conferences:

1. **S. B. Kerur**, Nagappa R Siddgonde, Ravikant B Mulage, “Numerical Analysis of Low Velocity Impact on Woven Fabric Laminated Composite Plates” NIER-International Conference on Emerging Trends in Engineering and Technology (ICET-15), 6th June Mysore, 2015
2. Anvesh A katti ,Manjunath B Yalwar, **S.B.Kerur**, “Geometrically Nonlinear Analysis of Laminated Composite Plate under Thermal

- Environment”, International Conference on Advances in Engineering Research (ICAER), 17th May 2015 Bangalore.
3. Murgayya S Basavankattimath, **S.B.Kerur**, “Static Analysis of Nano Beam”, International Conference on Developments in Engineering Research (ICDER), 26th April 2015 Salem.
  4. Vijay Simha K., Malkanagouda Patil, **S. B. Kerur**, “Post Buckling Analysis of Composite Panel”, *International Conference on Mechanical And Production Engineering (ICMPE)*, 29<sup>th</sup> June 2014 Pune.
  5. Sangameshwar Patil, Prabhuling Sarasambi, **S. B. Kerur**, “Dynamic Analysis of Composite Bracket”, *International Conference on Mechanical and Production Engineering (ICMPE)*, 29<sup>th</sup> June 2014, Pune.
  6. Prabhuling Sarasambi, Sangameshwar Patil, **S. B. Kerur**, “Buckling Analysis of Composite Structures”, *International Conference on Mechanical and Production Engineering (ICMPE)*, 29<sup>th</sup> June 2014, Pune.
  7. G.S. Patil, and **Kerur, S.B.**, Geometrically Nonlinear Analysis of Composite Plate, *Proceedings of the ICRIEECME 2014 Conference on Recent Innovations in Electrical, Electronics, Computer and Mechanical Engineering, 1<sup>st</sup> June, 2014, Bangalore, India*
  8. M. S. Patil, and **Kerur, S.B.**, Dynamic Analysis of Composite Spur Gear, *Proceedings of the ICRIEECME 2014 Conference on Recent Innovations in Electrical, Electronics, Computer and Mechanical Engineering, 1<sup>st</sup> June, 2014, Bangalore, India*
  9. **Kerur, S.B. and Ghosh, A.**, Active Vibration Control of Geometrically Nonlinear Smart Composite Shell, *Proceedings of the ASME 2013 Conference on Smart Materials, Adaptive Structures and Intelligent Systems*, September 16-18, 2013, Snowbird, Utah, USA, SMASIS2013-3248.
  10. Nagaraj Kantli and **S.B.Kerur**, Static Analysis of Composite Spur Gear, *International Research Conference on Innovative Strageries in Commerce, Managenment, Engineeringg, Technology and Social Sciences*, 10-11 June, 2013 Shree Damodar College, Margao, Goa, INDIA.
  11. Prabhuraj Kumbar, **S.B.Kerur** and Shankar H. Sanni, Experimental Validation Of Geopolymer Concrete Flexural Beams Using Ansys, *International Research Conference on Innovative Strageries in Commerce, Managenment, Engineeringg, Technology and Social Sciences*, 10-11 June, 2013 Shree Damodar College, Margao, Goa, INDIA.
  12. **Kerur, S.B. and Ghosh, A.**, Geometrically Nonlinear Transient Response of Active Fiber Composite Smart Plate, *Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics*, December 27-29, 2010, IIT Kharagpur, India, ICTACEM-2010/257.

13. **Kerur, S.B. and Ghosh, A.**, Vibration Control of Geometrically Non-Linear Composite Smart Plate with AFC Actuator and PVDF Sensor, *Proceedings of International Conference on International Conference on Vibration Engineering & Technology of Machinery*, December 13-15, 2010, IIT Delhi, VETOMAC-VI-AB00124.
14. **Kerur, S.B. and Ghosh, A.**, Active Control of Geometrically Nonlinear Transient Response of Smart Laminated Composite Plate Integrated With AFC Actuator and PVDF Sensor, *Proceedings of the ASME 2010 Conference on Smart Materials, Adaptive Structures and Intelligent Systems*, September 28 - October 1, 2010, Philadelphia, Pennsylvania, USA, SMASIS2010-3647.

**Projects guided for M.Tech. (Last Three Years):**

Sl. No	Student Name	Name of the Project Title	Academic Year	Co-Guide
1	Mr. Anand Sharanappa (2BA10MMD01)	Finite Element Analysis of Smart Composite Beams using ANSYS	2011-12	
2	Mr. Mahadeva Reddy (2BA10MMD04)	Finite Element Analysis of Composite Plates	2011-12	
3	Mr. Manojkumar Ambalagi (2BA10MMD05)	Finite Element Analysis of Composite Shells	2011-12	
4	MD Javeed Akhter (2BA10MMD06)	Dynamic Analysis of Single-walled & Double-walled Carbon Nanotubes using Finite Element Method.	2011-12	Mr. V. Senthilkumar NAL, B'Lore
5	Sachin Kudate (2BA10MMD13)	Static Analysis of Composite Plate	2011-12	
6	Mr. Sangamesh (2BA10MMD14)	Dynamic Analysis of Single-walled & Double-walled Carbon Nanocones using Finite Element Method.	2011-12	Mr. V. Senthilkumar NAL, B'Lore
7	Mr. Santosh B. Aswade (2BA10MMD15)	Finite Element Analysis of Smart Composite Plates using ANSYS	2011-12	
8	Mr. Goutam S. Gachhinakatti (2BA11MMD03)	Finite Element Analysis of Smart Composite Plate under Thermal Environment	2012-13	Prof. S.J. Sanjay
9	Mr. Gurulingappa Hosamani (2BA11MMD04)	Crack Investigation of Human Teeth using Finite Element Analysis	2012-13	Dr. Nivedita Mankani
10	Mr. Nagaraj Kantli (2BA11MMD05)	Static Analysis of composite Spur Gear	2012-13	
11	Mr. Prabhuraj Kumbar (2BA11MMD06)	Finite Element Analysis of Geo Polymer concrete flexural Beam	2012-13	Prof. Shankar Sanni
12	Mr. Sangamesh Sheelvant (2BA11MMD09)	Finite Element Modeling & Analysis of Human Lumbar Spine	2012-13	Dr. Ravindra Kulkarni

13	Mr. Shivakumar Nulvi (2BA11MMD11)	Static Analysis of Smart Composite Beam under Thermal Environment	2012-13	Prof. S.J. Sanjay
14	Mr. Anand Yalawar (2BA12MMD01)	Material Nonlinear Analysis of Composite Plate using Ansys	2013-14	
15	Mr. G.S.Patil (2BA12MMD06)	Geometric nonlinear Analysis of Composite Plate Using Ansys	2013-14	
16	Mr. Malakanagouda Patil (2BA12MMD10)	Dynamic analysis of Composite Spur Gear	2013-14	
17	Mr. P.G. Sarasambi (2BA12MMD11)	Buckling Analysis of Composite Plates under Thermal Environment using Finite Element Approach	2013-14	
18	S.B.Herkal (2BA12MMD12)	Finite Element Analysis of Composite Shell Panels	2013-14	
19	S.H.Patil (2BA12MMD13)	Transient Analysis of Composite Beams and Plates – A parametric Study Using Finite Element Method	2013-14	
20	Vijay Simha K (2BA12MMD18)	Post Buckling Analysis of Composite Shell Panels Using Finite Element Method	2013-14	
	Akhilesh V. Math (2BA 12 MPY 02)	Post – Buckling Analysis of Composite plate using FEM	2013-14	Dr. G. B. Rudrakshi
21	Muragayya B.S.	Finite Element Analysis of Micro/Nano Cantilever beam	2014-15	
22	Nagappa R Siddgonde,	Numerical Analysis of Low Velocity Impact on Fiber Reinforced Laminated Composite Plates	2014-15	
23	Ravikant B Mulage	Numerical Analysis of Low Velocity Impact on Fiber Reinforced Laminated Composite Shell panels	2014-15	
24	Anvesh A katti	Geometrically Nonlinear Analysis of Fiber Reinforced Laminated Composite Plates Under Thermal Environment	2014-15	
25	Manjunath B Yalwar	Buckling Analysis of Delaminated Fiber Reinforced Composite Plates	2014-15	
26	Mallikarjun Handi	Buckling Analysis of Fiber Reinforced Composite Plates with Hole	2014-15	
27	Shivakumar	Post Buckling Analysis of Delaminated Fiber Reinforced Composite Plates	2014-15	
28	Muttappa Domanal	Numerical Study on Static Behavior of Fiber Reinforced Composite Panels	2015-16	
29	Shreekant Patil	Numerical Study on Nonlinear Bending Behavior of Fiber Reinforced Composite Plates	2015-16	
30	Krishna Nalagi	Numerical Study on Bending and Free Vibration Behavior of Fiber Reinforced Composite Plates	2015-16	
31	Bakshi	Transient analysis of Composite fuselage using MATLAB	2016-17	
32	Pattar	Dynamic analysis of Composite wing using MATLAB	2016-17	
33	Somashekhar	Finite element analysis of Sugarcane seed sowing machine	2016-17	
34	Chandrashekhar	Experimental investigations of	2016-17	

		composite beams.		
35			2016-17	

- Submission on 30<sup>th</sup> June, 2017

**Projects guided for B.E. (Last Three Years):**

Sl. No.	Students' Name	Name of the Project Title	Academic Year	Co-Guide
1	Praful M. (2BA09ME064) Vinod H (2BA09ME117) Ravindra Khot (2BA09ME079) Santosh Khot (2BA09ME084)	Static Analysis of Composite Belleville Spring	2012-13	Dr. V. B. Math
2	Onkar Hegde (2BA10ME029) Anup (2BA10ME009) Hanumant (2BA10ME027) Davalsab (2BA10ME019)	Pedal Operated Water Pump (KSCST Approved)	2013-14	
3	Ninganagouda (2BA10ME058) Naveen M. (2BA10ME056) Veeresh R. (2BA10ME108) Kumar K. (2BA10ME028)	Dynamic analysis of Composite Belleville Spring	2013-14	
4	Mr. Krishna Chavan (2BA11ME046) Mr Amol Patil (2BA11ME007) Mr pramod Shiragur (2BA11ME072) Mr Chandrashekar H (2BA11ME018)	Finite Element Analysis of Composite Cylinder and Gasket Under Thermal Environment	2014-15	
5	Mr Chandrashekhhar Malalli (2BA11ME019) Mr Sangamesh Toran (2BA11ME091) Mr Shrikanth Balihongal (2BA11ME105) Mr Suresh Awaradi (2BA10ME111)	Automation in Irrigation System	2014-15	

6	Mr Laxman Hundarad (2BA11ME048) Mr Kedar Kolaki (2BA10ME045) Mr Shreenivas Annigeri (2BA11ME102) Mr Prakash koti (2BA10ME071)	Analysis of Thermal Expansion of Rigid Beams in Composite Bar Using FEM	2014-15	
7	Mallikarjun Haragol (2BA 11 IP 008) and Others	Design and Fabrication of Motor Driven Automobile Jack	2014-15	Prof. S.S. Davangeri
8	Veeramani Purohit () & others	Energy harvesting using Piezoelectric materials	2015-16	Prof. H.R. Patil
9	Neelangouda Biradar (2BA12ME066) & others	Power Harvesting From LPG Stove Flame Using TEG	2015-16	Prof. K.Bhat
10	Amitanand D. Suralikerimath (2BA 12 ME 012) & others	Study on static deflection of Fiber reinforced composite plates using MATLAB	2015-16	
11	Shivabasappa Hugar (2BA 12 ME 102) & others	Static and Free Vibration analysis of Composite shell using ANSYS	2015-16	
12		Sugarcane seed sowing machine	2016-17*	

- Submission on 30<sup>th</sup> June, 2017

### Subjects Taught for M.Tech. and B.E. Courses:

Sl.No.	Subject Name	Course
1	Strength of Material	B.E.
2	C Programming	B.E.
3	Operations Research	B.E.
4	Machine Design I & II	B.E.
5	Finite Element Methods	B.E./M.Tech.
6	Fracture Mechanics	M.Tech.
7	Mechanics of Composite Materials and Structures	M.Tech.
8	Advanced Theory of Vibrations	M.Tech.
9	Dynamics and Mechanism Design	M.Tech.
10	Computer Graphics	M.Tech.

### Administration Responsibilities in the college:

Sl. No.	Nature of Work	Since Year

1	Warden, BEC Hostel	2012 - Till Date
2	Member, BEC-Entrepreneurship Development cell	2006-2008
3	Member, Infosys Campus Connect	2004-2006

### Workshops conducted:

Sl. No.	Name of the Work shop	Date
1	Introduction to Effective Writing Using Latex for M.Tech 2 <sup>nd</sup> Year and PhD Students	05-03-2013 to 09-03-2013
2	Introduction to Effective Writing Using Latex For M.Tech I year Students	20-04-2013 to 21-04-2013
3	Technical Talk by Dr. C M. Manjunath, Senior Principal Scientist & Group Head, NAL, Bangalore	9-10-2014 to 10-10-2014
4	Introduction to Effective Writing Using Latex for M.Tech 2 <sup>nd</sup> Year and PhD Students	05-11-1024 to 07-10-2014

### Workshops attended as Resource Person: (Last 3 Years)

Sl. No.	Name of the Work shop	Date
1	VTU SDP on Effective Writing Using Latex, VTU, Belagavi	14-06-2015 to 16-06-2015
2	VTU-VGST FDP on Recent Advances in Composite Materials” at Basavakalyan Engg College, Basavakalyan – 585 327	09-05-2014 to 12-05-2014
3	1 Day SDP on Fibre Reinforced Polymer Composites at Basaveshwar Engg. College, Bagalkot – 587 102	28-02-2014
4	3 Days SDP on Finite Elements in Engineering Applications at Basaveshwar Engg. College, Bagalkot – 587 102	21-02-2014 to 23-02-2014
5	Workshop on Advances in Mechanism Design at Bheemanna Khandre Institute of Technology, Bhalki-585328	14-05-2013 to 16-05-2013
6	HRD Training Programme for Iyr BE/MTech/MCA/MBA Students at Basaveshwar Engg. College, Bagalkot – 587 102	13-10-1012 to 14-10-2012 15-09-1012 to 16-09-2012

### Workshops/ Conferences attended as Participant: (Last 3 Years)

Sl. No.	Name of the Work shop	Date
1	Advance pedagogy at IIM Kozhikode	26-09-2016 to 28-09-2016
2	Management Capacity Enhancement Programme at IIM Inodre	15-11-2015 to 22-11.2015



3	<a href="#">Short Course on FRP Composites: Overview, Characterization, Analysis, Design and Applications</a> Dept of Mech Engg. IIT Hyderabad	10-07-2014 to 11-07-2014
4	Effective Leadership for Excellence by Intl. Academy for Competency Enhancement, Bangalore	08-02-2014 to 09-02-2014
5	Work shop Data Analysis and Statistical S/w at Basaveshwar Engg. College, Bagalkot – 587 102	22-11-2013 to 23-11-2013
6	Design, Modelling and Simulation of MEMS at Basaveshwar Engg. College, Bagalkot – 587 102	10-07-2013 to 12-07-2013
7	International Research Conference on Innovative Strategies in Commerce, Management, Engineeringg, Technology and Social Sciences, Shree Damodar College, Margao, Goa, INDIA.	10-06-2013 to 11-06-2013