

**JITENDRA BHASKAR**  
Associate Professor  
Mechanical Engineering Department  
HBTI Kanpur



**1. Professional Education:**

UG: **B.Tech** in Mech. Engg. G.B. Pant Univ. of Agril & Tech Pantnagar 1998

PG: **M E** (CAD/CAM) M.N.R.Engg. College, Allahabad 2001

**Ph D** pursuing from IIT Kanpur 2013

**2. Employment Record (Govt. Services)**

2003 - 2007 Assistant Professor (old scale rs 8000-13500) at G. B. Pant University of  
Agriculture & Technology PANTNAGAR, Uttrakhand

2007 - 2010 Assistant Professor (Old scale Rs 12000-18300 & new PB-3) at HBTI  
Kanpur

2010 – Continuing Associate Professor (new PB-4) at HBTI Kanpur

*Administrative Experience & other assignments:*

**Officiating Registrar of HBTI** (Sept 2009-April 2010),

Member selection committee at IIT, Kanpur & Rajasthan,

Warden of hostels, NSS Programme officer, Member T&P cell, Officer Incharge Vehicle  
at HBTI Kanpur, P.G. Coordinator of Mechanical Engineering Department,

World bank Procurement I/C (Phase 2), Member of SC/ST scholarship committee,

Incharge of CAD laboratory of the Department, Officer Incharge Guest House Jan 2011.

UPSEE counseling coordinator.

**Participation as Question Paper setter**

a. **PUBLIC SERVICE COMMISSIONS STATES:** Uttar Pradesh, Uttrakhand and  
Madhya Pradesh.

b. Kumaon Engg. College, Dawarhat (Almora), G.B.Pant Engg.College Pauri  
(Garhwal), MJP Rohilkhand Bareilly, Agra University, UPTU Lucknow, Uttrakand  
Technical University Dehradun, Indraprastha University Delhi, BIET, Jhansi.

**Member Professional body:** Associate Life member (LM-39235) of ISTE

**3. Teaching & Research Specialization:**

Dynamics of Machine, Vibrations, Composites, Smart Materials & Structures,  
CAD/ CAM, Finite Element Method, Geometric modeling,

**Courses Taught:**

**Under Graduate courses:**

Kinematics of Machine, Dynamics of Machine, Machine Design, Machine drawing, CAD, CAM, Machine Drawing, Power Plant Engineering, Non-conventional Energy sources system, Mechanical system design, Thermodynamics, Theory of fluid flow etc.

**Post Graduate Courses:**

Finite Element Method, Geometric modeling, Computer graphics and Geometric modeling, Simulation modeling and Analysis, Fracture mechanics, Advance mechanics of solid.

**4. M.Tech.Theses supervised:**

1. “*Meshfree analysis of elastic bar*” published in LAP Lambert Academic Publishing ISBN 978-3-8443-1294-2, Paperback, 92 Seiten by Jeetender Singh Kushwaha.
2. “*Evaluation of Mechanical Properties of Wood Plastic Composite*” by Mr Shamsul Haq in 2010
3. “*Failure Analysis of I<sup>st</sup> stage Gas Turbine Blade*” by Mr Basant Lal in 2010
4. “*Modelling of heel pad for shoes*” Mr Kamran Rasheed in Year 2011
5. “*Fabrication and Experimentation investigation of Mechanical properties of Bamboo fibre reinforced composite*” by Mr Habibur Rahman, Year 2013.
6. “*Fabrication and Experimentation investigation of Mechanical properties of Babool particulate composite*” by Mr S K Dohare in Year 2013.
7. “*Experimental Determination of Mechanical Properties of Recycled Tyre Rubber Particulate Composites*” by Mr Vipin Chaurasia Year 2014
8. “*Computer Aided Design, Fabrication and Analysis of Scaled Wind Turbine Blade*” by Mr Prateek Kumar Gupta in Year 2015.
9. “*Dynamic Characterization of Coconut Particulate Composites*” by Mr Satyendra Kumar in Year 2016

**5. Consultancy and Sponsored Research activities:**

1. **2007-08** TEQIP, world bank “A development of cart mounted sugar cane crusher with high performance and Hygiene” **Rs 60000/**
2. **March 2010**\_ AICTE: “Investigation on Gas turbine blade failure” sanctioned in 2010 Ref.no.8023/BOR/RID/RPS-99/2009-10 dated March 31,2010 Amount Rs 3,50,000=00
3. **2015**\_TEQIP-II “Shape Memory Alloy (SMA) wires embedded polymer composites: Fabrication& Characterization” Amount Rs 90,000=00 (one Lac)
4. **2015**\_TEQIP-II “Development of set-up for Fabrication of Metal Matrix Composites” Amount Rs 1,00,000=00 (one Lac)
5. **2015**\_TEQIP “Study of Dynamic responses of Selected seasonal Fruits during the process of Ripening for better Transportation” Rs1,20,000=00.
6. **2015**\_TEQIP “Development of 3 D Printing Machine” APPLIED FOR
7. **2015**\_TEQIP “Development of Fabrication facility for Polymer Composites” APPLIED FOR

**1. Reviewer of Journals:**

8. Journal of Materials & Environmental Science ISSN 2028-2508 **IMF 0.452** year 2012 (**SCOUPS**)
9. Journal of Reinforced Plastic and Composite (SAGE) The American society for composites. **IMF-0.9** 2012

2. **Book Reviewed:** *Mechanical Vibration* By Thammaiah Gowda, Jagadeesha T and D V  
Girish Publisher ISBN-13: 978-1-25-900617-3 **Tata McGraw Hill** Publisher Tata McGraw Hill  
**Book Edited:** “*Innovation in Materials, Design & Manufacturing*” Excel pvt. Ltd. New Delhi, 2015 ISBN 978-93-8469-47-2
3. **Short-term Courses/conference etc. organised / in during the past five years.**
  - a. **A two day refresher course** on “*Composite Material: Potential & Challenges*” during December 28-29, 2007.
  - b. **Faculty development programme** on “*Advances in Engineering Materials*” March 16-21, 2009.
  - c. **National conference** on Innovation in Materials, Design & Manufacturing during March 27-28, 2015 at HBTI Kanpur.
4. **Expert Lecture Delivered in seminar**
  - a) Delivered a lecture in a “*Prof. P.N. Tondon Memorial week-ends Lecture series* on “Modelling and Computing” during February 18 to March 18, 2012 organized by Department of Mathematics HBTI Kanpur.
  - b) Invited Talk on “*FEM in Engineering Applications*” on 13/10/2014 at Mech Engg Deptt, G.B.Pant University of Agriculture and Technology, PANTNARGR.
  - c) Invited Lecture on “*An Introduction on Finite Element Methods*” in TEQIP sponsored National conference (March 28, 2015) at HBTI Kanpur.
  - d) Invited Lecture on “*Computer Aided Design*” on November 02, 2015 at Indus Institute of Management & Technology, Kakwan Road Bilohur, Kanpur.
  - e) Invited Lecture on “*Smart Materials*” on 13/04/16 at Ajay Kumar Garg Engg. College Ghaziabad, UP.

## 6. List of Research Paper Published

### International Journal:

1. “*Evaluation and Testing of Mechanical properties of wood plastic composite*” by **Bhaskar J, Haq Shamsul and Yadaw S B** in International Journal of thermoplastic composite materials Volume 25 No 4, June 2012 (The American society for composites) ISSN 0892-7057. **IMF-0.750 2012**
2. *Evaluation of properties of propylene-pine wood Plastic composite*, by **Jitendra Bhaskar, Shamsul Haq, A K Pandey and N Srivastava** in Journal of Material & Environmental Science ISSN 2028-2508, 3(3) ( 2012) 605-612. **IMF 0.45**
3. *Water Absorption and Compressive Properties of Coconut Shell Particle Reinforced-Epoxy Composite*, by **J Bhaskar** and **V K Singh** in Journal of Materials & Environmental Science ISSN 2028-2508, 4(1) (2013) 113-118.
4. *Physical and Mechanical Properties of Coconut Shell Particle Reinforced-Epoxy composite*, by **J Bhaskar** and **V K Singh** in Journal of Materials & Environmental Science ISSN 2028-2508, 4(2) (2013) 227-232. **IMF 0.45**
5. *Tensile and Flexural strengths of Coconut Shell particle & Coir fibre Reinforced Composite*, by **J Bhaskar** and **V K Singh** in Journal of New Technology and Materials (JNTM) ISSN: 2170-161X, 03(01) (2013) 50-55. **IMF 0.45**

6. *Compressive behavior of Walnut(Juglans.L) shell particles reinforced composites*, by N Srivastava, V K Singh, **J Bhaskar** in Journal of Usak University Journal of Material Science (UUJMS) ISSN:2147-2785, 1(2013) 23-30.
7. **J Bhaskar**, Anand Kumar and Bishakh Bhattacharya, “Dynamic response of selected fruits using Laser Doppler Vibrometer (LDV) in Asia Pacific Journals (ISBN: 978-81930411-4-7) Vol-1, Issue-1. April 2015.

#### **International Conferences:**

1. Anand. Kumar and **J Bhaskar**, Tribological Performance Evaluation of Tin-Bronze as against Mild steel, ICRDME-2008, pp 400-404, SUSCET, Mohali, Punjab, Jan. 2008. (*International conference*)
2. **J Bhaskar**, Anand. Kumar and Vinay Pratap Singh, Non Uniform Rotational B-Splines (NURBS) for Object Modelling, ICRDME 2008, pp 644, SUSCET, Mohali, Punjab, Jan 2008. (*International conference*)
3. **J Bhaskar** and J Kushwaha, “Selection of dimensionless size of support domain in EFG” in ICAMB-2009 during December14-16, 2009 *International conference* held at VIT Vellore.
4. **J Bhaskar**, Anand Kumar and Bishakh Bhattacharya, “ Dynamic response of selected fruits using Laser Doppler Vibrometer (LDV) in Advancements & Recent innovations in Mechanical Production & Industrial Engineering organized at I.T.S Engineering College Noida on April 2015.
5. **J Bhaskar & Basant Lal**. “Investigations on failures of 1<sup>st</sup> stage Gas Turbine balde” in MRAEHEI 2015 organised by Jabalpur Management Association Jabalpur held Goa during October 26-27, 2015.
6. Chaurasia V. K., **Bhaskar J.**, Singhal S. K.,<sup>4</sup>Bhattacharya B. *Structural and Dynamic Properties of Waste Tyre Rubber Composites* published in proceeding at serial No 279 of International Conference **COPEN**<sup>9</sup> at IIT BOMBAY December 10-12, 2015.

#### **National Conferences:**

1. **J Bhaskar & V K Singh** “Experimental investigation of mixed mode stress field parameters under biaxial loading condition” Paper presented during National conference on Recent Advances in Mechanical Engineering at Noorul Islam College of Engineering, Tamilnadu.
2. **J Bhaskar & V K Singh** “NURBS for FEM” published at National conference on Recent advances in Mechanical Engineering (October 27-28, 2006) at Sri Jayachmrajendra college of Engineering, Mysore.
3. **J Bhaskar** and Anand. Kumar, Non Uniform Rational B-Spline Curves for CAD, STEM 2007, GBPUAT, Pantnagar, pp88-93, Oct, 2007
4. **J Bhaskar** and J Kushwaha, “ *Importance of dimensionless size of support domain in EFG*” in ETME during October 12-13, 2009 National conference held at MMMEC, Gorakhpur
5. N Srivastava, **J Bhaskar**, “*Mechanical characterisation of Walnut reinforced composite*” published at National conference on challenges & opportunities for

Technological Innovation in India (COTII-2013) at Ambalika Institute of Management & Technology, LUCKNOW during Feb 06, 2013.

6. S K Dohre, **J Bhaskar** N Srivastava, “*Low Grade wood flour composite*” published in National conference on Technological developments in Mech. Engg. (TDME-2013) organized by SRMS College of Engg & Tech. Bareilly, UP on April 20, 2013.
7. H Rahman, **J Bhaskar** N Srivastava, “*Bamboo Fibre Reinforced composite*” published in National conference on Technological developments in Mech. Engg. (TDME-2013) organized by SRMS College of Engg & Tech. Bareilly, UP on April 20, 2013.
8. **J Bhaskar** N Srivastava, “*Particulate wood composite: Potential & challenges*” published in National conference on Technological developments in Mech. Engg. (TDME-2013) organized by SRMS College of Engg & Tech. Bareilly, UP on April 20, 2013
9. Jatin Prakash Naik and **Jitendra Bhaskar**, “*Shape memory alloys: Their applications and future scope*” published in proceeding of Innovation in Materials, Design & Manufacturing March 27-28, 2015 pp:26-33, ISBN : 978-93-8469-47-2.
10. Prateek K Gupta and **Jitendra Bhaskar**, “*Design and development of scaled wind turbine blade*” published in proceeding of Innovation in Materials, Design & Manufacturing March 27-28, 2015 pp:34-39, ISBN : 978-93-8469-47-2.
11. V.K. Chaurasia, **Jitendra Bhaskar**, and S.K. Singhal “*Structural properties of waste tyre rubber composites*” published in proceeding of Innovation in Materials, Design & Manufacturing March 27-28, 2015 pp:154-160, ISBN : 978-93-8469-47-2.
12. J Bhaskar and Anurag Kumar Pandey “*Scope of shape memory alloy hybrid composites for self-healing: A Review*” published in National conference on advances in Material, Design and Manufacturing (AMDM-2016) held on January 30-31 at Allenhouse Institute Kanpur. ISBN: 978-81-904444-3-9.

#### **Seminar:**

1. Published a research paper “**Development in Wood Plastic Composite**” in All India Seminar organized by Department of Mechanical Engineering HBTI Kanpur and Institution of Engineers-Kanpur Local Chapter during August 24-25, 2012.

#### **7. List Program of Training/FDP/Training/Courses/Conferences Attended**

1. Participated in National Work Shop on “*Non-Destructive Testing*” held at PANTNAGAR on April 25 and 26, 2003.
2. Participated in AICTE sponsored Work Shop on “*Envirmental and Pollution Awareness in Hilly Area*” conducted by Department of Civil Engineering on October 01, 2004 at PANTNAGAR.
3. Participated in Short term training Programme on “*Advances in Digital Technology*” conducted by jointly Department of Computer Engineering & Electronics & Communication Engineering on April 6-26, 2004 at PANTNAGAR.

4. Participated in Short term training Programme on “**CAD/CAM**” conducted by National Institute of Technical Teacher Training (Ministry of Human Resource Department, Govt. of India) on December 06-10,2004 at Chandigarh.
5. Participated in Short term training Programme on “**Improving Industry Institute Interaction**” conducted by National Institute of Technical Teacher Training (Ministry of Human Resource Department, Govt. of India) during March 08-12,2004 at Chandigarh.
6. Participated in **Orientation Programme** for Programme officers of NSS sponsored by the Ministry of Youth Affairs and Sports. Govt. of India from January 04-13,2005 at TOC Lucknow.
7. Participated in **Refresher course** for Programme officers of NSS sponsored by the Ministry of Youth Affairs and Sports. Govt. of India from December 26-30,2005 at GBPUAT Pantnagar organized by TOC Lucknow.
8. Participated in two day refresher course on Advances in Materials & Material selection in design organized by department of Mechanical Engineering at HBTI Kanpur during March 10-11, 2007.
9. “Transportation of Oil & Gas through pipelines” during July 8-10,2009 organized by PETROFED at IIPM, Gurgaon.
10. Short term course on “Optimization techniques for Engineers” at HBTI Kanpur funded by AICTE during March 23-24, 2009.
11. Attended Short term course on “Micro Scale Engineering” at IIT Kanpur from Jan 03-08, 2011 organized by Dr P K Panigrahi, Mechanical Engineering Department.
12. Short term course on “Dynamics & Vibration” at IIT Kanpur from June 30-July 03, 2014.
13. Visiting Research Program-TEQIP (Winter) at IIT Kanpur from December 07-27, 2014.
14. Faculty Development Program at HBTI Kanpur March-07-12, 2014.
15. National Conference: Innovations in Materials, Design & Manufacturing -IMDM 2015 at HBTI Kanpur, March 27-28, 2015.
16. International conference:ARIMPIE-2015 at I.T.S. Engg. college Greater Noida April 10-11, 2015.
17. Visiting Research Program-TEQIP at IIT Kanpur June 2015.
18. State level Faculty Interaction Seminar under UP Govt. and TEQIP-II at HBTI Kanpur on June 8-9, 2015.
19. All India seminar on Advances in Engineering and Technology for Sustainable Development (AETS-D-2015) at GBPUAT Pantnagar (Session chair) June 12-13, 2015.
20. Short term course on Micro-manufacturing at IIT Kanpur on August 31-September 04, 2015.
21. International conference IC-MRAEHEI-2015 organized by South Asia Management Association and Jabalpur Management Association held at GOA October 26-27, 2015.

22. International conference on Precision, Meso, Micro and Nano Engineering (COPEN<sup>9</sup>)  
Organized by IIT Bombay December 10-12, 2015.
23. Workshop on “Outcome based education for NBA” organized by SFU Lucknow on  
July 1-2, 2016 at Lucknow.

Date:

**JITENDRA BHASKAR**