

## **Profile of Dr. Rajeev Kumar**

### **Professor, Mechanical Engineering Department**

- Presently Controller of Examination, Dr APJ Kalam Technical University, Lucknow since Oct 01, 2017.
- Completed Ph.D in “*Biomechanical characterization of external fracture stabilizing system by experimental and analytical method*” on Oct 22, 2016.
- M. Tech. in Mechanical Engineering (Solid Mechanics & Design) from IIT Kanpur under Quality Improvement Program (QIP) in 2006.
- B.TECH (Mechanical Engineering) from G. B. Pant University of Agriculture & Technology, Nainital in 1989.
- More than 22 years work experience in academics and about six year industrial experience.
- Served at various positions in Nuclear Power Corporation of India Limited at their different power projects. Actively contributed in the commissioning activities of Kakrapar Atomic Power Project, Gujarat and Kaiga Atomic Power Project, Karnataka as Scientific Officer SD.
- Served as Joint Controller of Examination at Uttar Pradesh Technical University, Lucknow from Apr 08, 2011 to Feb 03, 2015.
- Served as Additional Controller of Examination at Dr A P J Abdul Kalam Technical University, Uttar Pradesh, Lucknow from Feb 04, 2015 to Jan 27, 2016.
- Coauthored two textbooks titled “Manufacturing Processes” published by PHI Learning, New Delhi in 2014 and “Basics of Non-Destructive Testing” published by S.K. Kataria & Sons Publishers, New Delhi in 2013.
- Associate Life member of Institute of Engineers, Kolkata.

# RAJEEV KUMAR

## MECHANICAL ENGINEERING DEPARTMENT

1. FATHER'S NAME : Late Sri Kashi Prasad  
2. ADDRESS FOR CORRESPONDENCE : Type –IV B G 201, Institute of Engineering and Technology Campus, Sitapur Road, Lucknow- 226021 India.  
3. DATE OF BIRTH : December 07, 1965  
4. Email : [rajeev.kumar@ietlucknow.ac.in](mailto:rajeev.kumar@ietlucknow.ac.in)  
5. Contact no : 08004911322

### 6. EDUCATIONAL QUALIFICATIONS:

S.No.	QUALIFICATIONS	SUBJECT	YEAR	Division/ CGPA	COLLEGE/UNIV
1.	Ph.D, (Pursuing)	Mechanical Engineering	2016		Dr A P J Abdul Kalam Technical University, Lucknow
2.	M. Tech.	Mechanical Engineering (Solid Mechanics & Design)	2006 (QIP)	CGPA8.2 5 out of 10	IIT Kanpur
3.	B. TECH.	Mechanical Engineering	1989	CGPA 4.23 out of 5 (I DIV)	G B Pant University of Ag. & Tech., Nainital
4.	INTERMEDIATE	Hindi, English, Mathematics, Physics, Chemistry	1983	I DIV	U.P.BOARD, Allahabad
5.	HIGH SCHOOL	Hindi, English, Math Science, Sanskrit	1981	I DIV	U.P.BOARD, Allahabad

### 7. WORK EXPERIENCE: 28 years

#### (a)Teaching: (22Years)

**Institute of Engineering and Technology (I.E.T), Lucknow, U.P.**

Period : From Oct 22, 2016 - till date

Designation : Professor

Responsibilities : Teaching Undergraduate Engineering Students

#### (b) Industry: 6 years

**Nuclear Power Corporation of India Ltd.**

Period : From Aug 1994-1996

Designation : Scientist Officer/Engineer SD

Responsibilities : Commissioning & Maintenance of Nuclear Power Plant Equipment at Kaiga Atomic Power Plant, Karnataka

**Nuclear Power Corporation of India Ltd.**

Period : From Aug 1991- Jul 1994  
Designation : Scientist Officer/Engineer C  
Responsibilities : Commissioning & Maintenance of Nuclear Power Plant  
Equipment at Kakrapar Atomic Power Project, Gujarat

**Nuclear Power Corporation of India Ltd.**

Period : From Aug 1990- Jul 1991  
Designation : Engineer Trainee  
Responsibilities : Undergone training for Commissioning & Maintenance of  
Nuclear Power Plant at Madras Atomic Power Project,  
Kalpakkam.

**8. PUBLICATIONS****(a) JOURNALS**

1. Ragvendra Krishna, Shiwangi Yadav, **Rajeev Kumar**, H K Paliwal. *Development and analysis of side door intrusion beam of SUV*. Int J Mech Engg & Tech, 2018, 9(9): pp 915-922.
2. Shiwangi Yadav, Ragvendra Krishna, **Rajeev Kumar**, H K Paliwal. *Design & analysis of car front rail*. Int J Mech Engg & Tech, 2018, 9(9): pp 833-841.
3. Suruchi Singh, Anubhav Mishra, **Rajeev Kumar**, Arun Mital. *Determination of strength of hemp fibre composites used for joining aluminium tubular pipes*. Int J Mech Engg & Tech, 2018, 9(9): pp 737-748.
4. Anubhav Mishra, **Rajeev Kumar**, Arun Mital. *A study on leak tightness of composite sleeves butt joints*. Int J Mech Engg & Tech, 2018, 9(9): pp 730-736.
5. **Rajeev Kumar**, R C Gupta, Sanjay Mishra. *Stiffness characteristics of Joshi's external stabilizing system under axial compression: a finite element based study*. Int J Engg Res & App, 2014, 4(7): pp 43-47.
6. **Rajeev Kumar**, R C Gupta, Sanjay Mishra. *Experimental Testing of Joshi's External Stabilizing System (JESS) under axial compression*. Int J Engg Res & Tech, 2014, 3(4): pp 599-603.
7. **Rajeev Kumar**, Anupam Kumar Gupta, V P Sharma, Sanjay Kumar Mishra. *Strength of Joshi External Stabilizing System*. Journal of Orthopedic Surgery, Hong Kong 2011, 19(1): pp 72-75.
8. **Rajeev Kumar**, Sanjay Kumar Mishra, *Estimation of Force and Moments on Temporomandibular Joint during Mandibular Osteodistracted by Finite Element Model*. Calicut Medical Journal, 2011; 9(2): e2.
9. **Rajeev Kumar** & Prashant Kumar, *High Strength FRP Joints: An Experimental Study*, IE(I) Journal MC, 2008, 89: pp-16-19.
10. Prashant Kumar, Ritesh Kumar Singh, **Rajeev Kumar**, *Joining Similar and Dissimilar Materials with GFRP*, International Journal of Adhesion and Adhesives, 2007, 27: pp 68-76.

**(b) INTERNATIONAL CONFERENCE**

1. Anubhav Mishra, Suruchi Singh, Rajeev Kumar, Arun Mital, *Natural fiber based adhesive butt joints as a replacement to gas welded butt joints for thin tubes: An experimental study*. 1st International Conference on Contemporary Research in Mechanical Engineering with Focus on Materials and Manufacturing (ICCRME-2018). (IOP Conf. Series: Materials Science and Engineering 404 (2018) 012024)

2. Prashant Kumar & **Rajeev Kumar**, *Joining Materials with Glass Fiber Reinforced Plastics*, 19<sup>th</sup> Australian Biennial Conference on the Mechanics of Structures and Materials, Christchurch, New Zealand, Nov 29-01 Dec, 2006.

**(c) NATIONAL SEMINARS/CONFERENCES**

1. **Rajeev Kumar**, R C Gupta, V P Sharma, Sanjay Kumar Mishra, *Mechanical Properties of Joshi External Stabilizing System by Experimental Methods*. 56<sup>th</sup> Annual Conference of Indian Orthopaedic Association (IOACON) 2011, Ghaziabad, Dec 07-11, 2011.
2. Anupam Gupta, **Rajeev Kumar**, Sanjay Kumar Mishra, V P Sharma, *The stiffness of Joshi External Stabilizing System can be increased: results from a finite element based study*. 55<sup>th</sup> Annual Conference of Indian Orthopaedic Association (IOACON) 2010, Bhubaneshwar, Dec 09-14, 2010.
3. **Rajeev Kumar**, Sanjay Mishra, *Estimation of Forces and Moments on Temporomandibular Joint During Osteodistractor by Computer Model*, 54<sup>th</sup> Annual Conference of Indian Orthopaedic Association (IOACON) 2009, Bhubaneshwar, Nov 24-27, 2009.
4. Sanjay Kumar Mishra, Anupam Gupta, **Rajeev Kumar**, V P Sharma, *An Investigation of Mechanical Properties of Joshi External Stabilizing System (JESS)*, 53<sup>rd</sup> Annual Conference of Indian Orthopaedic Association (IOACON) 2008, Bangalore, Dec 2-7, 2008.
5. **Rajeev Kumar**, Shailendra Sinha, Kuldeep Sahay, B.B. Singh, *Effective Maintenance Strategies for Wind Energy Conversion System*, National Conference on Wind Energy Commercialization, MACT, Bhopal, March 5-6, 1999.
6. **Rajeev Kumar** & H. K. Paliwal, *Application of Wear particle Analysis as a Condition Monitoring Tool in a Thermal Power Plant*, All India Seminar on Condition Monitoring and Diagnostics of Mechanical Systems, Lucknow, India, March 6-7, 1998.

**(d) Book chapters in edited book/monograph**

1. Rajeev Kumar, R. C. Gupta, V. P. Sharma, Sanjay Mishra. ‘*Determination of axial and transverse stiffness of Joshi’s External Stabilizing System by experimental method*’, Biomechanics, J. Sahoo, R. K. Saxena, H. C. Das, A. K. Gosh, I K International Publishing House Pvt Ltd, 2014.

**7. ACADAMIC ACTIVITIES**

**(a) SHORT TERM COURSES/WORKSHOPS/FDP ATTENDED**

1. TEQIP-II sponsored three-day training program on *Pedagogy & Management capacity Enhancement Program for Teaching Staff* at Andaman & Nicobar Islands, Mar 17-19, 2017.
2. TEQIP-II sponsored one-week training program on *Internet of Things* at Hotel Renaissance, Lucknow, 2017.
3. Three-day training program in *Basic Course on ANSYS Mechanical* at Institute of Engineering & Technology, Lucknow, Mar 29-31, 2016.
4. Four-week faculty development program on *Probability and Statistical Tools for Researchers* at Institute of Engineering & Technology, Lucknow, Mar 30-Apr 28, 2009.
5. Four week faculty development program on *Research Methodology* at Institute of Engineering & Technology, Lucknow, Mar 30- Apr 28, 2009.
6. One week workshop on *Micromachining* at Indian Institute of Technology, Kanpur, Oct 07-11, 2008.

7. Three day workshop on *Computer Aided Engineering* at Harcourt Butler Technological Institute, Kanpur, June 08-10, 2007.
8. One week short term course on *Finite Element Analysis: Theory and Practice* at Motilal Nehru National Institute of Technology, Allahabad, Jan 29- Feb 3, 2007.
9. One week QIP course on *Recent Trends in Advanced Composites* at Indian Institute of Technology Kanpur, Oct 10-14, 2005.
10. Two week QIP course on *Product Development* at Instrument Design Development Centre, Indian Institute of Technology Delhi, New Delhi, Jun 02-14, 2003.
11. Three days *Teachers Learning Workshop on Product Development & Design* at BabuBanarasi Das National Institute of Technology & Management (BBDNITM), Lucknow, Sept 06-08, 2002.
12. One week QIP course on *Computer Aided Maintenance* at Industrial Tribology, Machine Dynamics and Maintenance Engineering center (ITMMEC), Indian Institute of Technology Delhi, New Delhi, Dec 08-13, 1997.
13. Nine days training program in *Management Development* at National Institute of Training in Industrial Engineering, Bombay, July 25-Aug 03, 1991.

**(b) RESEARCH**

Ph.D on “*Biomechanical characterization of external fracture stabilizing system by experimental and analytical method*” under the guidance of Dr.R.C. Gupta, Professor (Retd.), Mechanical Engineering Department, IET Lucknow completed on Oct 22, 2016.

**8. ADMINISTRATIVE ACTIVITIES**

- In charge Stores for five years, 1996-2001.
- In charge athletics for four years, 1998-2002.
- Warden Hostel Raman B for two years, 2002-2004.
- Deputy Dean Academics at IET Lucknow for two years, 2006-08.
- Dean Academics at IET, Lucknow for one and half year, from Aug 2008 to Jan 2010.
- Joint Controller of Examination at Uttar Pradesh Technical University, Lucknow from April 08, 2011 to Feb 03, 2015.
- Additional Controller of Examination at Dr A P J Abdul Kalam Technical University, Uttar Pradesh, Lucknow from Feb 04, 2015 to Jan 27, 2016.
- Currently Warden Hostel Ramanujam since Dec 2015.

**9. COURSE TAUGHT AT UNDERGRADUATE LEVEL**

- Engineering Mechanics
- Machine Drawing
- Machine Design
- Finite Element Method also at PG level
- Non-Destructive Testing
- Non-conventional Energy Resources

## **10. PARTICIPATION IN DR A P J ABDUL KALAM TECHNICAL UNIVERSITY**

### **ACTIVITIES:**

- Head Examiner, central evaluation for end semester examinations.
- Papers Setter of for university end semester examinations.
- Joint Controller of Examination from April 08, 2011 to Feb 03, 2015.
- Additional Controller of Examination from Feb 04, 2015 to Jan 27, 2016.

## **11 Membership of professional societies**

1. Life associate member of Institution of Engineers, Kolkata.

## **12 Books Published**

1. Basics of Non-Destructive Testing by Osama Lari and **Rajeev Kumar**, SK Kataria & Sons Publishers, New Delhi, 2013.
2. Manufacturing Processes by **Rajeev Kumar** and Maheshwar Dayal Gupta, PHI Learning Pvt Ltd, New Delhi, 2014.

## **13 Collaboration with outside world:**

11. Research collaboration with Dr Sanjay Mishra, School of Engineering Systems and IHBI, Queensland University of Technology, Brisbane, Australia and Dr V P Sharma, Department of Physical Medicine and Rehabilitation, CSM Medical University, Lucknow, UP, India regarding mechanical testing and characterization of bone fixation devices of Indian origin between 2008 and 2011. Based on the findings of experiments research papers were presented in various conferences and journals.
12. Collaborated with Mr Osama Lari, Faculty at IIMT Engineering College, Meerut in coauthoring a book titled “Basics of Non-Destructive Testing” which was published by S. K. Kataria & Sons publishers, New Delhi in 2013.
13. Collaborated with Mr Maheshwar Dayal Gupta, Faculty at Baba Saheb Bhimrao Ambedkar University, Lucknow in coauthoring a book titled “Manufacturing Processes” which was published by PHI Learning Pvt Ltd, New Delhi in 2014.

Rajeev Kumar  
Mechanical Engineering

I.E.T. Lucknow