

CURRICULUM-VITAE



Dr. Rajiv Kumar

**Assistant professor, School of Mechanical Engineering,
Shri Mata Vaishno Devi University, katra-182320**

Mobile No: 8377886330

Email Id: rajivattri20@gmail.com

CAREER OBJECTIVE

To add depth to my knowledge by taking challenging assignment and to contribute significantly towards the growth of the organization.

EDUCATIONAL QUALIFICATIONS

- **Ph.D.** in Mechanical Engineering on the topic 'Tribological Investigation of Natural Fibre Reinforced Polymer Composites' from **Shri Mata vaishno Devi University** in May, **2020**.
- **M.Tech.** in Mechanical Engg.(Industrial & Production) from **N.I.T. Kurukshetra** securing **9.65 CGPA** in 2012.
- **B.Tech.** in Mechanical Engg. from N.C. College of Engineering, Israna (Panipat) affiliated to **Kurukshetra University** securing **70.4%** marks with **Hons.** in 2006.
- **Class 12th** from **S.M. Hindu Sr. Sec. School**, Sonipat with **71.8 %** marks, affiliated to Board of School Education Haryana in 2002.
- **Class 10th** from **S.M. Hindu Sr. Sec. School**, Sonipat with **88.6%** marks, affiliated to Board of School Education Haryana in 2000.

TEACHING/INDUSTRY EXPERIENCE

Organization	Post	duration	Time (in years)	Description
N.C. College of Engg., Israna (Panipat)	Lecturer	29-08-2006 to 11-01-2008	~1.5 Years	Teaching

Infosys Technologies Ltd. (Pune)	Systems Engineer	14-01-2008 to 23-07-2010	~2.5 Years	Worked as a Systems Engineer in Infosys for their product Finacle.
Ajay Kumar Garg Engg. College, Ghaziabad	Assistant Professor	16-07-12 to 24-12-2014	~2.5 Years	Teaching
Shri Mata Vaishno Devi University, Katra	Assistant Professor	01-01-2015 to Till date	~8.8 Years	Teaching+Research

SUBJECTS TAUGHT

- Engineering Graphics
- Total Quality Management
- Disaster Management
- Metal Cutting & Machine Tools
- Manufacturing Processes-II
- Advanced Machining Processes

Foreign Academic Visits

- Australia (2016)
- Malaysia (2019)

Research Interests

- Development of Natural Fibre Reinforced Polymer Composites
- Mechanical and Tribological Characterization of Polymer Composites
- Development of Green Composites

Journal Publications (SCI-E/Scopus)- 16 Papers

Rajiv Kumar, Mir Irfan Ul Haq, Ankush Raina, Ankush Anand: *Industrial applications of natural fibre-reinforced polymer composites – challenges and opportunities*. International Journal of Sustainable Engineering 11/2018;, DOI:10.1080/19397038.2018.1538267

Rajiv Kumar, Ankush Anand: *Dry sliding friction and wear behavior of ramie fiber reinforced epoxy composites*. Materials Research Express 10/2018; 6(1)., DOI:10.1088/2053-1591/aae69b

Rajiv Kumar, Mir I. Ul Haq, Sanjay M. Sharma, Ankush Raina, and Ankush Anand. "Effect of water absorption on mechanical and tribological properties of Indian ramie/epoxy composites." *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology* 236, no. 9 (2022): 1871-1879.

Rajiv Kumar, and Ankush Anand. "Fabrication and mechanical characterization of Indian ramie reinforced polymer composites." *Materials Research Express* 6, no. 5 (2019): 055303.

- Bhat, Asrar Rafiq, **Rajiv Kumar**, and Prasanna Kumar S. Mural. "Natural Fiber Reinforced Polymer Composites: A Comprehensive Review of Tribo-Mechanical Properties." *Tribology International* (2023): 108978.
- Gupta, Sukesh, Mir Irfan Ul Haq, Sanjay Mohan, Ankush Anand, Ankush Raina, Varun Dutta, Karan Vohra, and **Rajiv Kumar**. "Evaluation of mechanical properties of ramie/banana reinforced hybrid composites." *Journal of Mechanical Engineering (JMEchE)* 1 (2019): 95-104.
- Sharma, Vipul, **Rajiv Kumar**, Karan Vohra, and Kapil Chopra. "Fabrication and mechanical characterization of walnut/polyester composites." *International Journal of Vehicle Structures & Systems* 10, no. 5 (2018): 381-383.
- Gupta, Avi, Sanjay Mohan, Ankush Anand, Mir Irfan Ul Haq, Ankush Raina, **Rajiv Kumar**, R. Arvind Singh, S. Jayalakshmi, and Mohd Kamal. "Tribological behaviour of Fe–C–Ni self-lubricating composites with WS₂ solid lubricant." *Materials Research Express* 6, no. 12 (2019): 126507.
- Rajiv Kumar**, and Ankush Anand. "Tribological behavior of natural fiber reinforced epoxy based composites: A review." *Materials Today: Proceedings* 18 (2019): 3247-3251.
- Bharti, Shalok, Varun Dutta, Sanjay Sharma, and **Rajiv Kumar**. "A study on the effect of friction stir processing on the hardness of aluminum 6000 series." *Materials Today: Proceedings* 18 (2019): 5185-5188.
- Mohan, Sanjay, Ankush Anand, Mir Irfan Ul Haq, Ankush Raina, **Rajiv Kumar**, and Mohd Kamal. "Development of a NIOSH based software tool for musculoskeletal disorders." *Indian Journal of Engineering and Materials Sciences (IJEMS)* 27, no. 4 (2021): 860-865.
- Javaid, Mohd, Abid Haleem, Ravi Pratap Singh, Shanay Rab, Rajiv Suman, and **Rajiv Kumar**. "Studies on the Metrological Need and Capabilities of 3D Scanning Technologies." *Journal of Industrial Integration and Management* (2022): 1-19.
- Mohan, Sanjay, Ankush Anand, Mir Irfan Ul Haq, Ankush Raina, and **Rajiv Kumar**. "Calcium fluoride a potential solid lubricant for green tribology and sustainability." In *Recent Advances in Mechanical Engineering: Select Proceedings of NCAME 2019*, pp. 587-595. Springer Singapore, 2020.
- Slathia, Smridh, Rahul Anand, Mir Irfan Ul Haq, Ankush Raina, Sanjay Mohan, **Rajiv Kumar**, and Ankush Anand. "Friction and Wear behaviour of AA2024/ZrO₂ composites: effect of graphite." In *Recent Advances in Mechanical Engineering: Select Proceedings of NCAME 2019*, pp. 597-601. Springer Singapore, 2020.
- Mir Irfan Ul Haq, Ankush Raina, Karan Vohra, **Rajiv Kumar**, Ankush Anand: *An Assessment of Tribological Characteristics of Different Materials under Sea Water Environment*. Materials today: proceedings 01/2018; 5(2):3602-3609., DOI:10.1016/j.matpr.2017.11.610
- Mir Irfan Ul Haq, ankush anand, karan vohra, Ankush Raina, Sanjay Mohan Sharma, **Rajiv kumar**: *Natural Systems and Tribology- Analogies and Lessons*. Materials today: proceedings 07/2017; 4(4)., DOI:10.1016/j.matpr.2017.05.031

Conference Attended

- “6th **International** Conference on Materials Processing and Characterization”, held at Victoria University, **Melbourne, Australia** during 5th -7th December 2016.
- 6th **International** Conference on Advances in Mechanical Engineering; Society of Mechanical Engineering Liveliness, Malaysia; Universiti Teknologi Mara, **Malaysia**, August, 2019

- **International Tribology Research Symposium** organized by **SRM Institute, Chennai**; SMVDU during 5th to 7th November 2020.
- **2nd International Conference on Mathematical, Engineering and Management Sciences (ICMEMS-2023)** held at **MNIT, Jaipur** during 21-22 May, 2023.
- **9th International Conference on Material Processing and Characterization (ICMPC)** at **GRIET, Hyderabad**, March, 2019.
- **5th International Conference on Recent Trends & Advancement in Engg. And Technology (ICRTAET)** at **SMVD University, Katra**, October, 2018.
- **International Conference on Mechanical Engg. and Allied Sciences (ICMEAS)** at **SMVD University, Katra**, Septemeber, 2018
- **National Conference on Renewable Energy and Sustainable Environment: Challenges and Remedies (CRESE-2018)**; at **School of Energy Management, SMVDU, Katra** during 24 April, 2018
- **National Conference and Workshop on “Advances in Biopolymers-2018”**, held at **University of Kashmir, Srinagar** during 30th -31st Oct., 2018.

Courses Attended

- 05 weeks **AICTE approved FDP on Foundation Program in ICT for Education** organized by **IIT Bombay** from 8th March- 12th April, 2018.
- One week **TEQIP-III Summer training programme on Active Learning Workshop** organized by **IIT Bombay** from 11-15th June, 2018.
- One week **QIP short term course “Materials Tribology: Fundamentals and Recent Advancements”** held at **IIT-BHU, Varanasi** during March, 2017.
- One week **Short Term Course on “Recent Trends in Automobile Engineering”** organized by **NITTTR Chandigarh** held during March, 2016.
- Two week **Industrial training at Exigo Recycling Pvt. Ltd., Panipat** during 01-14 August, 2022.
- **Implementation of NEP-2020 for University and College Teachers** organized by **Indira Gandhi National Open University, New Delhi** from 12-20 June, 2023.
- **10 Days National Adventure Camp** organized at **Atal Bihari Vajpayee Institute of Mountaineering & Allied Sports** sponsored by **NSS New Delhi** from 23-09-2022 to 02-10-2022.
- One day **workshop on Child Sexual Abuse** organized by **Sakshi NGO in collaboration with Ministry of Youth Affairs and Sports** on 28-11-2022.
- **Four Week MOOC (May- June 2020) on ‘Material Behaviour’** conducted by **Georgia Institute of Technology, USA**.
- One week **FDP on ROAD - Response Effectiveness, Organising Self, Attitudinal Shift, Decision Making** organized by **Indira Gandhi Delhi Technical University for Women- New Delhi** sponsored by **AICTE Training And Learning (ATAL) Academy** from 7-11 Sept., 2020.
- One week **FDP on Sustainable Product Design and Manufacturing** organized by **SMVDU (AICTE Sponsored)** from 18-24 March, 2021.
- One week **FDP on Rural Development through Rural Infrastructure Facilities** organized ny **NIT Raipur** from 22-26, Nov., 2021.

- Completed **08 module courses** developed by **NITTT** (AICTE guidelines) from Aug.-Oct., 2021.
- One Week **STC** (21st to 25th October 2019) on Engineering Optimization organized by **SMVDU** in collaboration with **JNTU, Hyderabad**.
- **MOOC** course on '**Disaster Preparedness**' conducted by **University of Pittsburgh**, July, 2022.
- 7 Day **FDP** (2nd to 8th July, 2019) on Universal Human Values for Student Induction organized by **IIT, Ropar**.

ADMINISTRATIVE RESPONSIBILITIES

- Faculty I/c Sports for University
- University NSS Coordinator
- Nodal Officer w.r.t. implementation of action plan of "Meri Maati Mera Desh" campaign at SMVD University
- Nodal Faculty/Principal Investigator for capacity building of students at SMVD University
- Member of different committees under University Social Responsibility (USR)
- Member of Internal committee for Administrative Audit of the Sections of the University (Finance Section & Guest House)
- Member Secretary for the committee of Unnat Bharat Abhiyan Activities

PERSONAL DETAILS

Name	:	Rajiv Kumar
Father's Name	:	Sh. Rajender Singh
Date of Birth	:	20-01-1985
Nationality	:	Indian
Sex	:	Male
Marital Status:	:	Married
Linguistic Ability	:	English, Hindi
Hobbies	:	Playing Cricket, Listening classical music, Reading poetry

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Rajiv Kumar