

# RESUME

**Dr. Yogesh Kumar** (*Ph.D. IIT Roorkee*)

*M.tech IIT Kharagpur, B.tech. Mechanical* [ykumar@pe.iitr.ac.in](mailto:ykumar@pe.iitr.ac.in) /  
[yogi.iitkgp1809@gmail.com](mailto:yogi.iitkgp1809@gmail.com) Call: +91-8949-586-005/+91-7820-832-452  
(WhatsApp)

---

## Employment

- Currently working as R&D officer in Ooms Polymer modified bitumen Pvt. Ltd. Kosi near Mathura, U.P.

## Academics

<i>Degree</i>	<i>University</i>	<i>Year</i>	<i>%/CGPA</i>
<b>Ph.D. (Polymer Engg.)</b>	<b>IIT Roorkee</b>	<b>2021</b>	<b>8.0</b>
<b>M.Tech. Mechanical (Specialization in Rubber Tech.)</b>	<b>IIT Kharagpur</b>	<b>2015</b>	<b>8.1</b>
<b>B.Tech. (Mechanical Engineering)</b>	<b>RTU, Kota</b>	<b>2010</b>	<b>65.47</b>

## Teaching Experience

- I have **three years** (2010-2013) teaching experience in the Mechanical Engineering branch at Poornima College of Engineering and Suresh Gyan Vihar University Jaipur before M.Tech.
- I have **eight months** (July 2015- Feb 2016) teaching experience in the Mechanical Engineering branch at Suresh Gyan Vihar University Jaipur (after M.tech).

## Ph.D. Thesis

- I have worked in the “Rheological study of Polymer modified bitumen/Asphalt binder” during my research work at IIT Roorkee. I have utilized different types of SBS polymer for binder modification to enhance their performance properties and resistance against permanent deformation during the service life of flexible pavements.

## Project and SCI papers

- **Yogesh Kumar**, et al. “Effect of molecular structure and concentration of styrene-butadiene polymer on upper service temperature rheological properties of modified binders”, Construction and Building Materials (2020), 249, 118790, [IF: 4.81]
- S. Singh, **Yogesh Kumar**, and Sham S. Ravindranath, “Thermal degradation of SBS in binder during storage: Influence of temp., SBS concentration, polymer type, and base binder”, Polymer Degradation and Stability (2018), 147, 64-75 [IF: 4.41]

- Publish paper in TRB conference title as “Limitation of rutting criteria ( $G^*/\sin\delta$ ) in quantifying property erosion in polymer modified binders during storage at elevated temperatures” Sumit K singh, Akanksha Pandey, **Yogesh Kumar**, Sham S Ravindranath. TRB conference USA 19-04367
- Work as project assistance for 3 months in a project sponsored by DRDO at Polymer and Process Engg. Deptt IIT Roorkee.

### **Membership of Professional societies**

- Lifetime member in Indian Road Congress
- Lifetime member in Society of Polymer Science and Material Research Society of India
- Associate member in American Chemical Society and Society of Rheology
- Young member in RILEM

### **Conferences / Seminars / Workshops**

- Presented a poster at a conference held in civil dept. IIT Roorkee
- Presented paper on “Rheological study of Polymer modified bitumen” in a National conference held in civil dept. IIT Roorkee.
- Mess committee member in Malviya Bhavan mess at IIT Roorkee.
- Attended a workshop by Anton Paar India on “Recent innovation in Rheology world”.
- Completed a summer course on “welding and distortion prediction and control of large ship structure units” in Ocean Engg. dept. IIT Kharagpur
- Participated in a National Conference on “Present Status and Future Prospects of Renewable Energy in RAJASTHAN” held by Kautilya Institute of Technology & Engineering
- Present paper on “Solar Energy – Availability in Rajasthan.”
- Participated in a National Conference on “Recent Trends in High Rise Building” held by Kautilya Institute of Technology & Engineering
- Completed a Course Lecture Series by Prof. Sir Michael Berry at Physics dept. at IIT Kharagpur
- Attended a seminar on “forum for Vedanta and science” at IIT Kharagpur
- Attended an IEEE SB workshop series for “Research Paper writing” at IIT Kharagpur
- Attended workshop on “future of engine intelligence” at IIT Kharagpur
- Got certificate “Indian Statistical Institute” Kolkata for the mathematical game at IIT Kharagpur
- Participated in a seminar on “Comet ISON” by “Breakthrough science society” at IIT Kharagpur

### **M Tech Project**

- **Polyurethane graphite composite coating over an aluminum substrate**  
The project mentioned above was completed under the combined guidance of Prof. Jinu Paul, **Mechanical Engineering Department**, and Prof. N C Das Rubber Technology IIT Kharagpur.

### **B Tech Project**

- **Effect of Turbocharger on the performance of Single Cylinder Diesel Engine**

The project was completed under Professor Devi Singh Kumari, Mechanical Engineering Department, PCE Jaipur.

### **Btech Internship**

- I had training at “Omax Autos Ltd. Haryana” June-July 2009 for 30 days.
- I had training at “Vipul Motors Ltd. Malviya Nagar Jaipur” July-August 2009 for 60 days.

### **Achievements & Awards**

- Participated in Research scholar day of RTC at IIT Kharagpur
- Got an award for poster making for drama competition at MMM hall at IIT Kharagpur
- Participate and earned a distinction in the Fine art Team selection at IIT Kharagpur
- Attended soft skill training program organized by IIT Kharagpur
- Core Team Member of a mentorship program of student Alumni group at IIT Kharagpur
- An active member of “KGP connection,” a convocation team at IIT Kharagpur
- Compiling team member of “Tech newsletter” at IIT Kharagpur
- Participated in 3 days workshop conducted by ANSYS software at IIT Kharagpur
- Coordinator of Conducting team of the seminar on student welfare group at IIT Kharagpur
- 2<sup>nd</sup> Rank in Table tennis interhall competition at IIT Roorkee.

### **Extra-Curricular Activities**

- Participated in a various activity held during spring fest and “kshitij” (annual fest) IIT KGP
- Participated in blood donation camp at PCE Jaipur and IIT Kharagpur
- Joined "SAMVADD" for pleasing personality at PCE Jaipur
- Participated in the science fair in AVM school Jaipur

### **Software Skills**

- Origin 8.5, MS Office, ANSYS 15, SOLIDWORKS, Auto CAD/CAM, MATLAB

### **Areas of Interest**

- Strength of Materials, Engineering Thermodynamics, Production Engineering
- Polymer subjects (Polymer Processing, Rheology, testing and characterization techniques)

### **Strengths**

- Self-Motivated, Team player, problem-solving, organization

### **Hobbies**

- Playing Badminton, table tennis, lawn tennis, Listening Soothing Music

### **Personal Profile**

Father name : Kamal Singh  
Date of Birth : 18/09/1990  
Address : D-45, Saraswati Nagar, Malviya Nagar, Jaipur, Rajasthan 302017

### **References**

1. **Dr. Praveen Kumar** (Professor, Civil Engineering, 94142307245, [praveenaeron@gmail.com](mailto:praveenaeron@gmail.com), IIT Roorkee )
2. **Dr. Sham S Ravindranath** (Assistant Professor, Polymer Engineering, IIT Roorkee, [sham708@gmail.com](mailto:sham708@gmail.com) 8171-878-886)
3. **Dr. N C Das** (Associate Professor, Rubber Technology Center, 9547086298, [ncdas@rtc.iitkgp.ac.in](mailto:ncdas@rtc.iitkgp.ac.in), IIT Kharagpur)