

# Curriculum Vitae

## Mayank Pokhriyal

Assistant Professor  
MED, Faculty of Engg. & Technology  
Gurukula Kangri (Deemed to be University), Haridwar  
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## Address

H. No. 802, Serv Priya Vihar  
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## Education

### National Institute of Technology, Uttarakhand

**Ph. D** Composite Materials **March 2017- Present**  
Dissertation: Processing of Natural Fiber Reinforced Biodegradable Composite  
**Supervisor:** Dr. Pawan Kumar Rakesh  
Current status : **Pursuing**

### Govind Ballabh Pant Institute of Engineering & Technology (Uttarakhand Technical University)

**M.Tech.:** Production Engineering; 81.12% **2013-2015**  
Dissertation: An investigation into thermo-mechanical behavior of Himalayan nettle fiber reinforced polyester composite.  
**Supervisor:** Dr. Lalta Prasad & Dr. K. K. S. Mer **Haridwar, UK**

### Gurukula Kangri (Deemed to be University), Haridwar

**B.Tech.** Mechanical Engineering ; 71.59% **Haridwar, UK**  
Dissertation: Hand Pump With Integrated Filter System. **2009-2013**

## Research experience

### Govind Ballabh Pant Institute of Engineering & Technology, Pauri Garhwal, UK

Master's Researcher (Jan. 2015 – June 2015)

- Worked on the chemical treatment of natural fiber for making of composite.
- Fabrication of composite panels using nettle fiber as reinforcement
- Mechanical, Thermal and Tribological tests were performed on the composites.

- Worked as a mentor for 4-person team of undergraduates for their final year project
- Got publication of proposed work in international SCI and Scopus indexed journals.

### Publications:

- **Mayank Pokhriyal**, Lalta Prasad, & H. P. Raturi. (2017). An experimental investigation on mechanical and tribological properties of Himalayan nettle fiber composite. *Journal of Natural Fibers*, 1-10. **(SCI)**
- H. P. Raturi, Lalta Prasad, **Mayank Pokhriyal** & Vineet Trith. (2017). An Estimating the Effect of Process Parameters on Metal Removal Rate and Surface Roughness in WEDM of Composite Al6063/SiC/Al2O3 by Taguchi Method. *Strojnícky Casopis–Journal of Mechanical Engineering*, 67(2), 25-36 **(SCOPUS INDEXED)**.
- Lalit Ranakoti, **Mayank Pokhriyal**, Ankur Kumar, Natural fibers and biopolymers characterization: A future potential composite material. *Strojnícky Casopis–Journal of Mechanical Engineering*, 68(1), 33-50. **(SCOPUS INDEXED)**.

### Conference papers and presentations:

- **Mayank Pokhriyal**, and Pawan Kumar Rakesh. "Mechanical and microstructural behaviour of NaOH treated Himalayacalamus falconeri fibers as biodegradable reinforcing material in polymer based composites." *Materials Today: Proceedings* (2022).
- Ankur Kumar, Lalit Ranakoti, P K Rakesh and **Mayank Pokhriyal**, Mechanical Properties of Wood Flour Reinforced Polymer Composites: A Review, International Conference on ASCADM- 2018, NIT Patna, 4-6th June 2018, 481-486.
- **Mayank Pokhriyal**, Lalta Prasad, Pawan Kumar Rakesh, Himanshu Prasad Raturi, Influence of fiber loading on physico mechanical properties of Himalayan nettle fabric reinforced polyester composite, AMPCO-2017, IIT Roorkee, India **(SCOPUS INDEXED)**.
- Lalta Prasad, Gaurav kumar, **Mayank Pokhriyal**, A comparative study on physical and mechanical behaviour of functionally graded composite materials reinforced with natural fillers, AMPCO-2017, IIT Roorkee, India **(SCOPUS INDEXED)**.
- H. P. Raturi, Lalta Prasad, **Mayank Pokhriyal**, A. Kumar, Study on Wear Behaviour of Al-Based Hybrid Metal Matrix Composites Reinforced with Al<sub>2</sub>O<sub>3</sub>/SiC Particles, I-DAD 2018,India. **(SCOPUS INDEXED)**
- **Mayank Pokhriyal**, Himanshu Prasad Raturi, Lalta Prasad and Sanjeev kumar Lambha. Tensile behavior and potential of natural bast fiber composites - A Review, Proceeding of the 1st National Conference on Recent

Advances in Sciences & Technology(NCRAST-2015), SIT Pithoragarh, August 22-23, 2015 (ISBN: 978-93-85437-03-8).

- Himanshu Prasad Raturi, **Mayank Pokhriyal** and Lalta Prasad. Parametric effects on metal matrix composite and hybrid metal matrix composite machining through WEDM –A Review, Proceeding of the 1st National Conference on Recent Advances in Sciences & Technology(NCRAST-2015), SIT Pithoragarh, August 22-23, 2015 (ISBN: 978-93-85437-03-8)
- **Mayank Pokhriyal**, Lalta Prasad and Himanshu Prasad Raturi, A review on influence of fiber loading and orientation on the mechanical properties of natural fiber reinforced composites, the 2nd National Conference on Recent Advances in Sciences & Technology(NCRAST-2016), SIT Pithoragarh, August 29-30, 2016. (ISBN:978- 93- 85777- 96-7)
- Himanshu Prasad Raturi, Lalta Prasad and **Mayank Pokhriyal**, investigation of cutting parameters on turning operation—a review, the 2nd National Conference on Recent Advances in Sciences & Technology(NCRAST-2016), SIT Pithoragarh, August 29-30, 2016. (ISBN:978- 93- 85777- 96-7)

### Training Programmes Attended

- **Innovation Ambassador Training** (Foundation Level) on 30 June-30 July 2021 conducted by MoE's Innovation Cell & AICTE in online mode nominated by Institute Innovation Council, Gurukula Kangri (Deemed to be University), Haridwar

### Short Term Courses

- FDP on “**Design , Optimization and Manufacture of Materials**” on Mar 7-12, 2022, organised by Department of Mechanical Engineering, SSN College of Engineering, Chennai, India.
- FDP on “**Inculcating Universal Human Values in Technical Education**” on Dec 27-31, 2021 organised by AICTE, New Delhi
- FDP on “**Design for Excellence: A Step towards Innovation**” on Sept 26-30, 2021, organised by Design Innovation Center, **IIT Roorkee**, India.
- ATAL FDP on “**Manufacturing Application of Automation and Robotics**” on July 26-30, 2021, organised by Graphic Era (Deemed to be University), Dehradun, India.
- ATAL FDP on “**Plastic Product & Mould Design**” on July 20-24, 2021, organised by CIPET, India.

- TEQIP -III sponsored One week Online short term course on **Microwave Material Processing: Opportunities and Challenges** on 14-18 December 2020 organized by Department of Mechanical Engineering, Govind Ballabh Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand.
- TEQIP -III sponsored One week Online short term course on **Recent Advancements in Micromanufacturing** on 23-27 November 2020 organized by Department of Mechanical Engineering, Govind Ballabh Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand.
- ATAL online FDP on **3D Printing & Design** from 30 November-4 December, 2020 Organized by **K.L.N. College of Engineering.**
- ATAL online FDP on **3D Printing & Design** from 16-20 November, 2020 Organized by **Mar Athanasius College of Engineering.**
- ATAL online FDP on **3D Printing & Design** from 9-13 November, 2020 Organized by **Indian Institute of Technology, Dharwad.**
- TEQIP -III sponsored One week online short term course on **Recent Developments in Mechanical Systems** on 7-11 September 2020 organized by Department of Mechanical Engineering, **National Institute of Technology, Srinagar (Garhwal)** Uttarakhand.
- ATAL online FDP on **Sustainability Engineering** from 26-30 October, 2020 Organized by **Indian Institute of Technology, Jammu.**
- ATAL online FDP on **3D Printing & Design** from 19-23 October, 2020 Organized by **Excel Engineering College.**
- ATAL online FDP on **Green Technology & Sustainability Engineering** from 5-9 October, 2020 Organized by **Punjab Engineering College.**
- ATAL online FDP on **Leadership & Excellence** 14-18 September, 2020 Organized by Faculty of Engineering & Technology, **Gurukula Kangri (Deemed to be University), Haridwar.**
- One week International FDP on **Research and Development in Materials Behaviour, Processing and Characterization Techniques** on June 9-14 2020, organized by Department of Mechanical Engineering, GLA Mathura, India in association with The Indian Institute of Metals( IIM), Mathura chapter and Panjab University, Chandigarh.
- TEQIP-II sponsored STC on **Advanced Manufacturing Technology** on June 8-12, 2015 organized by department of Mechanical Engineering, **G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand, India.**
- CDTE sponsored STC on **CNC and Reverse Engineering** on December 22-26, 2015, organized by 4i- Lab, **IIT Kanpur, India.**
- Five day Workshop on **Design Thinking for Innovative Products** on March 4-8, 2019, Organized by Design Innovation Center(DIC), National Institute of Technology, Uttarakhand.
- FDP on **Computer based product design and manufacturing** on Feb 9-13 2018, organised by E&ICT Academy, **IIT Roorkee, India.**

- TEQIP-III sponsored STC on **Material characterization by SEM, TEM, XRD and EBSD**, Oct 27-28, 2017, **GBPIET Pauri**, India.
- TEQIP-III sponsored STC on **Recent trends in electrical engineering with emphasis on renewable energy**, Nov 16-17, 2017 organized by **GBPIET Pauri**, India.

### Teaching experience

#### **Gurukula Kangri Vishwavidyalaya**

*Assistant Professor* (Nov. 2020 – Present)

- Taught UG courses
- Topic included: Principle and practices of Management, Strength of Materials, and Quality Control & Reliability Engineering.

#### **Govind Ballabh Pant Institute of Engineering & Technology, Pauri Garhwal, UK**

*Assistant Professor* (Oct. 2015 – May 2017)

- Taught UG and PG courses
- Topic included: Rapid Prototyping, Composite Materials
- Co-Guided 01 M.Tech. Student

### M.Tech. Thesis (Co- Supervised)

Vinod kumar kirmoliya, An experimental investigation on physico-mechanical properties of Rambans fiber reinforced polyester composite materials, M.Tech. Thesis(2017), Department of mechanical engineering, G.B. Pant Engineering College, Pauri Garhwal(Uttarakhand)

### B.Tech. Project Guided- 07

### Skills and Interests

**Software skills:** Proficient in Microsoft Office, Auto-CAD,

**Languages:** Fluency in Hindi and English: written and oral

**Other skills:** Knowledge of research methodologies, data and information collection, writing and presenting reports, time management

**Interests:** Traveling and cooking, Social Initiatives (Tree Plantation, clean Ganga )

### Professional membership

Life member- Asian Polymer Association

Life member –Institute of Scholars

### Declaration

I hereby declare that all the information provided by me in this application is factual and correct to the best of my knowledge and belief.