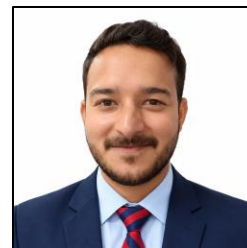


CURRICULUM VITAE

ATUL KUMAR

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PROFILE SUMMARY

Atul Kumar is an Assistant Professor at the College of Forestry, Ranichauri, VCSG Uttarakhand University of Horticulture & Forestry. He holds UGC and ICAR NET along with M.Sc. in Wood Science and Technology from the Forest Research Institute, Dehradun (2018), and a B.Sc. in Forestry from VCSG UUHF (2016). His academic and research interests centre on wood science and technology, bamboo processing, microwave-assisted processing, wood composites, wood preservation, and sustainable utilisation of forest-based biomass. His experience includes research projects supported by AICRP & ICFRE, teaching, student mentoring, academic training coordination, and institutional responsibilities.

RESEARCH INTERESTS / SPECIALIZATION

- Microwave-assisted processing of bamboo and wood-based materials.
- Wood science and technology, wood seasoning, preservation, and product development.
- Wood-based composites, including particleboard and wood-plastic composites.
- Formaldehyde emission and the effects of nanoclay in particleboard.
- Sustainable utilisation of forest resources and biomass; nature-based approaches to forest-fire risk reduction.
- Forest products, engineered wood, and emerging technologies for sustainable materials.

ADMINISTRATIVE, ACADEMIC & EXTENSION RESPONSIBILITIES

- Coordination and supervision of the All India Educational Tour for B.Sc. (Hons.) Forestry final-year students, including itinerary planning and institutional correspondence.
- Student orientation and discipline guidance for forest-range training at Uttarakhand Forest Training Academy, Haldwani.
- Student mentoring and coordination of academic activities, field visits, training programmes, and institutional events.
- Hostel-related responsibilities & student welfare/administrative coordination, as assigned Warden of Ganga Boys Hostel.
- Participation in various university representation and student-focused academic programmes.

RESEARCH / TECHNICAL TRAINING & PROFESSIONAL ACTIVITIES

- Certified training in “Advanced Technologies in Woodworking Machines and Applications,” Institute of Wood Science and Technology, Bengaluru.
- Forest training at Uttarakhand Forest Training Academy, Haldwani.
- Industrial attachment at Dovetail Woodcrafters (P) Ltd., Haldwani, covering timber seasoning, preservation, product manufacturing, boutique furniture, research and development, and technical problem-solving.
- Organised a seminar on “Green Cover Retention: The Critical Need, Policy & Practices” at the Institute of Wood Science and Technology, Bengaluru.
- Cleared SSB and was recommended by AFSB Mysore for the Indian Air Force.

RESEARCH THEMES / CURRENT ACADEMIC WORK

- Wood durability, treatability, seasoning, natural defects, and wood biodeterioration.
- Engineered wood products, adhesives, composites, and nanotechnology in wood science.
- Pine-needle biomass utilisation, bioenergy, briquetting, gasification, and value-added forest products.
- Relationship between Chir pine litter accumulation and forest-fire susceptibility in the Himalayan region.

PUBLICATIONS: RESEARCH PAPERS/ARTICLES/BOOK CHAPTERS

- Kukreti, S.B., **Kumar, A.** & Pradhan, A. Carbon sequestration by harvested wood products by direct inventory method: a case study. *J Indian Acad Wood Sci* (2026). <https://doi.org/10.1007/s13196-026-00419-3>

- Maithani, P., Mishra, K. & **Kumar, A.** Analysing the effect of bending process on microstructure of *Grevillea robusta* wood. *J Indian Acad Wood Sci* 23, 287–294 (2026). <https://doi.org/10.1007/s13196-025-00400-6>
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- Kumar, A., Bhatt, N., & Mamatha, B. S. (2026). LAC, resins, gums and dyes: Extraction, value addition, and industry linkages. In *Forest products utilization: Innovations, sustainability & future perspectives* (pp. 121–150). SS Publishing House. ISBN: 978-93-662659-1-9
 - Kukreti, S. B., Nautiyal, I., & Kumar, A. (2026). Policy and legal framework for forest products and utilization in India. In *Forest products utilization: Innovations, sustainability & future perspectives* (pp. 295–316). SS Publishing House. ISBN: 978-93-662659-1-9
 - Kumar, P., Magadum, S. K., Kumar, A., Singh, I., & Singh, N. (2025). Gene stacking and synthetic biology in agriculture. In *Advances in genetics and plant breeding: Innovations for sustainable agriculture* (pp. 98–105). AgriRoot ISBN: 978-81-995733-0-7
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- Sah, C. P., & Kumar, A. (2026, July). Pine needle biomass as a nature-based solution for wildfire risk reduction under climate change in the Himalayan region: Advances, challenges, and future perspectives. *BioThink E-Magazine*, 3(3), 55–68.
 - Bhatt, N., & Kumar, A. (2025, November). Biodiversity Hotspots in India. *AgroVaniki*, 1(1), 53–58. <https://forestrytopperslearning.akamai.net.in/study-material>
 - सिंह न०, कुमार अ०(२०२५), वन उत्पादों के माध्यम से ग्रामीण अर्थव्यवस्था को संबंधन, कृषि दर्पण, भाग-१, अंक-१, प्रष्ठ २२-२३