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Amit Kumar Rana received a Ph.D. in Mechanical Engineering from the Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103, India. He received an M.E. in mechanical engineering from Jadavpur University, Kolkata. He received his Bachelor of Engineering in Mechanical Engineering from Jalpaiguri Government Engineering College. Currently, he has been working in the department of mechanical engineering, Faculty of Science and Technology, at ICFAI University Tripura since 2020. Here, he is an Associate Professor & HOD in the Department of Mechanical Engineering of The ICFAI University Tripura, Pin-799210, India.

Dr. Amit Kumar Rana has over 17 years of experience in the teaching and research of mechanical engineering, as well as in the mechanical industry. After completing his Bachelor of Engineering (B.E.), at the start of his professional career, he worked in the industry. Previously he worked at the Academy of Technology, Hooghly, for 10.5 years; B. P. Poddar Institute of Management and Technology, Kolkata more than 1 year; and Batliboi Company, Kolkata more than 1 year. Furthermore, he served the administrative role as head of the mechanical engineering department and course coordinator for more than eight years. His research interests include machine design, computational mechanics&plasticity, FEM modeling and simulation, micromechanical modeling, mechanics of materials, and design engineering. He published research papers in reputed journals and presented papers at national and international conferences.