Dr. Surendra Pal Singh Matharu

Designation: Professor **Department:** Mechanical Engineering

Institute: National Institute of Technology, Raipur (C.G.), India, 492010

Qualification: B. E. (Mechanical), 81.31%, Govt. Engineering College, Raipur, 1988

M. Tech. (Mechanical Systems Design), 9.26 CGPA, IIT, Kharagpur, Jan. 2003

Ph. D. (Mechanical Engg.), Pt. Ravishankar Shukla University, Raipur (C.G.), Nov. 2010

Teaching Experience: Total till date: 24 years (Y) 11 months (M)

As Professor: 2 Years (Y) 10 months (M)

RESEARCH PAPERS PUBLISHED 09 (International Journals), 01 (National Journal)

01 (International Conference), **04** (National Conferences)

BOOKS WRITTEN 04 (ISBN Nos. 978-3-8484-4432-8, 978-93-803-9731-3, 978-93-803-9732-0, 978-93-803-9733-7)

Total duration of STTPs attended (weeks): 19

Number of Conferences / Seminars attended: 03

RESEARCH AND DEVELOPMENT PROJECT: 01 (one)

Principal Investigator of ongoing **AICTE** project entitled "Design, Development and Fabrication of a Test Rig for performance evaluation of Rolling Element Bearings" under **Research Promotion Scheme (RPS)**

DEVELOPMENT OF TEST RIGS

- (1) Developed an inexpensive Bearing Test Rig for performance evaluation of Rolling Element Bearings
- (2) Developed Resistivity Test Rig for measurement of electrical resistivity of Lubricants

PATENTS: Two patents in process for both, Bearing and Resitivity Test Rigs

LABORATORY MANUALS DEVELOPED

04 (Automobile Engineering, Dynamics of Machines, Kinematics of Machines, Machine Design)

Number of New Courses Developed: 05

Laboratory development work carried out for 05 Laboratories (Dynamics of Machines, Computer, Automobile Engineering, Fluid Mechanics & Machines and Turbo Machinery Laboratories)

Editor Member of International Journals: 03 (IJASTER, IJERT, IJSEA)

THESIS TITLES: M. Tech.: "A Predictive Condition Monitoring technique for Rolling Element Bearings"

Ph. D.: "Investigation on the Performance of Rolling Element Bearings for Enhanced Life"

Ph.D. Research Scholar: 03 (Three)

Number of Theory Courses taught (UG): 08 (Eight)

Number of B. Tech. Project Guided: 32

Major Equipments with essential instruments for Laboratory Experimentation and Research Work:

- (1) Bearing Test Rig for performance evaluation of Rolling Element Bearings
- (2) Four Ball Tester for standard testing (ASTM) of lubricants (DUCOM Instruments Pvt. Ltd.)



Awards / Honors / Recognition:

- (1) National Scholarship Scheme Certificate of merit awarded in 1983 by State Govt. of Madhya Pradesh for securing high position in class 11th board examination
- (2) 5th position in B.E. First Year in combined merit list of Ravishankar University, Raipur
- (3) 1st position in B.E. Third Year (Mech.) in combined merit list of Ravishankar University, Raipur (Received Silver Jubilee Commemoration Medal for 1st position in 1986)
- (4) 5th position in B.E. Fourth Year (Mech.) in combined merit list of Ravishankar University, Raipur
- (5) 3rd position in B.E. Final Year (Mech.) in combined merit list of Ravishankar University, Raipur

Major Administrative Responsibilities carried out:

- (1) Drawing and Disbursing Officer (DDO) for more than two and half years
- (2) Assistant Superintendent of Examinations for Five complete terms
- (3) Development work of Dynamics of Machines, Automobile Engineering, Fluid Mechanics and Machines, Computer, Turbo Machinery etc. Laboratories
- (4) Professor In charge, Training, of students of Mechanical Department for three years

Membership of Professional Societies:

- (1) Life Member, The Indian Society for Technical Education (ISTE)
- (2) Associate Member, The Institution of Engineers (India)

E-mail: spmatharu123@rediffmail.com

Date of Birth: 27-10-1966

Residential Address: House no. 144, Near Trimurthi Chowk, Sundar Nagar, RAIPUR (C.G.), INDIA – 492013