
RAVI SHANKAR PRASAD

Assistant Professor,
Dept. of Mechanical Engineering,
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Educational Qualifications:

- **Ph.D.** in Mechanical Engineering from **Indian Institute of Technology (Indian School of Mines), Dhanbad.**
Topic: **Numerical Investigation of Natural Convection and Surface Radiation in Cavities.**
Under the supervision of **Dr. S.N. Singh**, Department of Mechanical Engineering, I.I.T. (I.S.M.), Dhanbad and **Dr. Amit Kumar Gupta**, Department of Chemical Engineering, B.I.T. Sindri, Dhanbad.
- **M.Tech.** in Mechanical Engineering (Heat Power Engineering) from **B.I.T. Sindri, Dhanbad** under Vinoba Bhave University, Hazaribag.
- **B.Sc. Engineering** in Mechanical Engineering from **B.I.T. Sindri, Dhanbad** under Vinoba Bhave University, Hazaribag.

Responsibilities and Posts held:

- Assistant Professor, Mechanical Engineering at B.I.T. Sindri from 07 September, 2006 till date.
Responsibilities:
 - **Teaching and Evaluation** for B.Tech., M.Tech. and Ph.D. course work,
 - Guiding Ph.D. **Research** Scholars, B.Tech. and M.Tech. Projects.

Area of Specialization / Interest:

- Heat and Mass Transfer
- Fluid Mechanics
- Computational Fluid Dynamics
- Computational Heat Transfer
- Solar Energy
- Non-conventional Energy
- Renewable and Sustainable Energy
- Biomimetics
- Scientific and Technical Terminology in Hindi
- Mechanical Engineering Pedagogy
- Intellectual Property Rights
- History of Science, Engineering and Technology

Ph.D Guidance:

- Sri Mukesh Kumar, Assistant Professor, Department of Mechanical Engineering, Cambridge Institute of Technology, Tatisilwai, Ranchi. (In the field of Computational Fluid Dynamics / Heat and Mass Transfer, Ongoing).

M.Tech. Projects Guided: Five

- Sharan Sandeep (10PG013) "Performance Analysis of Natural Circulation Solar Water Heater". Guided jointly by Prasad R.S. and Nayak U.K. (27-08-2013)
- Kumar Akhilesh (12PG004) "Design, Fabrication and Performance Evaluation of Pool boiling using single and binary mixture". Guided jointly by Prasad R.S. and Nayak U.K. (20-01-2015)
- Mahto Mintu Kumar (12PG008) "Experimental Investigation of Forced Circulation Solar Air Heater along with Double Glass Cover Plate and Phase change material (Paraffin wax)". Guided jointly by Prasad R.S. and Mahto J.N. (13-02-2015)
- Kishore Kaushal (12PG009) "Experimental Investigation of Forced Circulation Solar Air Heater along with integrated Solar Collector and Phase Change Material (Paraffin wax)". Guided jointly by Prasad R.S. and Mahto J.N. (13-02-2015)
- Sujeet Toppo (17PG022) "Numerical Analysis of Free Convection in Square Cavity". Guided by Prasad R.S.

Teaching Responsibilities:

Teaching B.Tech. (UG) students at B.I.T., Sindri

- Engg. Thermodynamics
- Heat and Mass Transfer
- Engg. Mechanics
- Mechanics of Solids I (Strength of Materials I)
- Engg. Graphics I & II
- CAD G
- Machine Design
- Mechanical Systems Design
- Design of Machine Elements
- Design of Transmission Systems

Teaching M.Tech. (PG) students at B.I.T., Sindri

- Computational Fluid Dynamics
- Waste to Energy
- Solar Energy
- Organizational Behaviour

Additional Responsibilities Held:

- Member, Class Timetable Committee, B.I.T., Sindri (Since 2007 Till Date).
- Professor-in-Charge, Drawing Section, B.I.T., Sindri (Since 2008 To 2012).
- Professor-in-Charge, Rajbhasha Parishad (Hindi), B.I.T., Sindri (Since 2007 To 2018)
- Professor-in-Charge, Sarjana, The Institute Magazine, B.I.T., Sindri (Since 2007 To 2018)
- Professor-in-Charge, B.I.T., Sindri Official Website www.bitsindri.ac.in (Since 2012 To 2017).
- Professor-in-Charge, Mechanical Engineering Departmental Library (Since 2006 Till Date).
- Member, B.I.T., Sindri Anti-Ragging Committee.
- Editor and Executive Member, BIT Sindri Alumni Association, Sindri
- Hostel Superintendent, Hostel No. 04, 05 & 06, Since 2012 to 2016.
- Editor-in-Chief, Sarjana, The Institute Magazine, B.I.T., Sindri (During 2001-02).

Other Responsibilities Held:

- Various assignments and responsibilities assigned by Examination Department, B.I.T., Sindri; Vinoba Bhave University, Hazaribag and Jharkhand University of Technology, Ranchi; Several NITs, Central and State Engineering Colleges, Institutes and Universities.
- Various assignments and responsibilities in Short Term Courses, Seminar, Alumni Meet, Cultural Events, Passport Camps, JCECE Counselling, JEE Examination etc. at B.I.T. Sindri.

Technical Papers Recently Published:

- Singh S.K. and Prasad R.S., 2008, "Emerging Energy Sources with Sustainable Development" Presented in National Seminar on "Environmental Issues on Geotechnics & Mineral Industry (EIGMI)" at B.I.T., Sindri from 04th April, 2008 to 05th April, 2008. Proceedings of EIGMI-2008, Pages 80-88.
- Prasad R.S. and Singh S.K., 2012, "The ITER Project: The New Way to The New Energy" Presented in National Seminar on "Indian Nuclear Power Programme: Challenges and Opportunities (INCO-2012)" at B.I.T., Sindri jointly organised by B.I.T., Sindri, Dhanbad and B.A.R.C., Mumbai from 14th April, 2012 to 15th April, 2012.
- Prasad R.S. and Singh S.K., 2012, "झारखण्ड में कोयला खनन का वनस्पतीय एवं जैव विविधता पर दूरगामी प्रभाव (Long lasting effect of coal mining in Jharkhand on Plant and Bio-diversity)" Presented in National Seminar on "कोयला उपयोग: दृष्टि 2025 (Coal Utilization: Vision 2025)" at CIMFR, Dhanbad by CIMFR, Dhanbad (A CSIR organization) from 04th May, 2012 to 05th May, 2012, Pages 94-101.
- Nayak Ujjwal Kumar, Gupta Amit Kumar and Prasad Ravi Shankar, 2013, "A Review of Solar Water Heater with Flat Plate Collector (FPC)" Presented in National Seminar on "Energy and Environment for Sustainability (EES), 2013" at B.I.T. Sindri from 16th March, 2013 to 17th March, 2013.

- Kumar Akhilesh, Nayak U.K., Prasad R.S., Kumar Anil and Shankar Ravi, “Design, Fabrication and Performance Evaluation of Pool Boiling using single and binary mixture”, International Journal of Advanced Technology in Engineering and Science (IJATES), ISSN (online): 2348 – 7550, Volume 2, Issue 9, Pages 270-276, September, 2014.
- Kishore Kaushal, Roy S.C., Mahto J.N. and Prasad R.S. “Experimental Investigation Of Forced Circulation Solar Air Heater Along With Integrated Solar Collector And Phase Change Material (Paraffin Wax)”, International Journal of Scientific Research and Engineering Studies (IJSRES), ISSN: 2349-8862, Volume 1, Issue 4, Pages 50-60, October 2014.
- Prasad R.S. and Singh S.N., 2014, “Numerical Investigation of Natural Convection and Surface Radiation in Top Open Cavities with Right Side Wall Opening” in Fifth International Conference on “Fluid Mechanics and Fluid Power (FMFP-2014)” by F.M.F.P. at I.I.T., Kanpur on 12th December, 2014 to 14th December, 2014.
- Prasad R.S., Singh S.N. and Gupta Amit Kumar, “A Systematic Approach for Optimal Positioning of Heated Side Walls in a Side Vented Open Cavity under Natural Convection and Surface Radiation”, Frontiers in Heat and Mass Transfer (ISSN: 2151-8629), Volume 11, 15, 2018. (An Web of Science / ESCI / Scopus Indexed Journal).
- Prasad R.S., Singh S.N. and Gupta Amit Kumar, “Coupled Laminar Natural Convection and Surface Radiation in Partially Right Side Open Cavities”, Frontiers in Heat and Mass Transfer (ISSN: 2151-8629), Volume 11, 28, 2018. (An Web of Science / ESCI / Scopus Indexed Journal).
- Prasad, R.S., Singh, S.N. and Gupta, Amit Kumar, "Combined Laminar Natural Convection and Surface Radiation in Top Open Cavities with Right Side Opening", Journal of Engineering Science and Technology (JESTEC), (ISSN: 1823-4690), Taylor University, Malaysia, Volume 14, Issue 1, 2019, Pages 387-410. (An Web of Science / ESCI / Scopus Indexed Journal).

Other Achievements:

- Mentor at Web of Science Academy, Clarivate
- AIR 2656 in **IITJEE, 1999**
- AIR 2597 in **IITJEE, 2000**
- AIR 0185 in **CEED, 2002** (Common Entrance Examination for Design, 2002 conducted by IIT Bombay)

Hobbies and Interests:

- Teaching
- Research
- Making Engineering Models
- Reading Hindi Literature
- Writing Hindi Literature
- Web Designing
- Numismatics
- Gardening
- Planning Innovative