

Resume of Dr Rajesh Kumar Bhushan

Associate Professor

Department of Mechanical Engineering, Institute of Technology
Guru Ghsidas Vishwavidyalaya (A Central University)

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1. 23 years of experience in teaching, research and administration
2. Has wide administrative experience as Head Department of Mechanical Engineering, Director School of Mechanical Engineering, Nodal officer Skill Development, Member of Departmental Research committee, Coordinator for competitive exams like GATE, IES, PSU, Head student's faculty committee, Coordinator P G programme, MCA coordinator, Assistant Center Superintendent, Acting head department of information technology
3. Participated in 3 international and 2 national conferences
4. Guided 1 PhD thesis. (02 PhD guidance under progress), Guided 28 M Tech Dissertations
5. Published 30 research papers in reputed International journals and 43 research papers are under review in reputed International journals
6. Published 23 research papers in International conference and 20 in national conference
7. Completed 01 sponsored research project and 02 DST sponsored project under process
8. Received summer research fellowship from IIT Gandhinagar
9. Reviewer of 24 reputed International journals
10. Attended 25 courses
11. Certified Energy Manager and Energy Auditor by Government of India
12. Technical committee member, at International Level
13. Organized 05 Seminars/Short Term Courses
14. Delivered 14 Invited Lectures

Reviewer of the following international Journals

- i. Applied Energy, **Science Direct**
- ii. Energy conversion and management, **Science Direct**

- iii. Energy, **Science Direct**
- iv. Material Science and Engineering B, **Science Direct**
- v. Journal of cleaner production, **Science Direct**
- vi. Material Letters, **Science Direct**
- vii. Composite Part B, **Science Direct**
- viii. Sustainable Materials and Technologies, **Science Direct**
- ix. Journal of the Taiwan Institute of Chemical Engineers, **Science Direct**
- x. Robotics and Computer Integrated Manufacturing, **Science Direct**
- xi. Journal of Manufacturing Science and Engineering, **ASME**
- xii. Machining Science and Technology, **Taylor and Francis**
- xiii. Particulate Science and Technology, **Taylor and Francis**
- xiv. International Journal of Advanced Manufacturing Technology, **Springer**
- xv. Journal of Materials Engineering and Performance, **Springer**
- xvi. International Journal of Minerals, Metallurgy and Materials, **Springer**
- xvii. Journal of Mechanical Engineering Science, **Sage Publication**
- xviii. Journal of Materials: Design and Applications, **Sage Publication**
- xix. Journal of Engineering Manufacture, **Sage Publication**
- xx. Journal Scientific Research and Essays, Academic Journals
- xxi. Tribology in Industry
- xxii. Journal Tribologi
- xxiii. African Journal of Engineering Research

Areas of Research Interest

Fabrication, Characterization and Machining of Metal Matrix Composites, Micro manufacturing, Nano-materials, Application of Optimization techniques, Artificial Intelligence Application in Manufacturing, High Performance Computational Modelling of Engineered Systems and Multi-disciplinary Design Optimization,

Research Profile

(a) Technical committee member, International Conference on Materials Science and Nanotechnology (ICMSNT 2016) May 12-14, 2016 Seoul, South Korea.

(b) International Technical Committee Member, International Workshop on Key Engineering Materials (WKEM 2017), in Bangkok, Thailand from Jan. 5th to 7th, 2017.

(c) International Technical Committee, International Conference on Advanced Technologies in Manufacturing and Materials Engineering (ATMME 2017), January 5-7, 2017, Bangkok, Thailand

(d) International Technical Committee, 2nd International Symposium on Material Science and Technology (ISMST 2017), Auckland University of Technology on 20-22 April, 2017.

(e) Technical committee member, International Conference on Materials Science and Nanotechnology (ICMSNT 2018) March 29- April 01, 2018, Chengdu, China.

(f) Member, International Technical Committee, 4th International Conference on Advanced Materials and Applications (AMA 2019) organized by Ningbo Institute of Materials Technology and Engineering, CAS, Southwest Jiaotong University, Swinburne University of Technology and Hong Kong Society of Mechanical Engineers (HKSME).

PhD Thesis Examiner

Contributions to Professional committee

1. Chairmen Departmental Research committee
2. Chairmen of board of studies
3. Member of purchase committee
4. Member of Departmental Research committee
5. Member of academic council

Courses Taught

Courses at UG level

Strength of Materials
Mechanics of Solids
Metrology and Industrial Inspection
Dynamics of Machines
Materials Science and Engineering

Courses at PG level

Simulation and Modelling
Mechatronics
Advanced Composite Materials
Advanced Mechanics of Solids
Computer aided process planning

Administrative Responsibilities held / Continuing

1. Head Department of Mechanical Engineering, Guru Ghasidas vishwavidyalaya (A central university)
2. Nodal officer Skill development, Guru Ghasidas vishwavidyalaya (A central university)
3. Chairmen Board of studies, Guru Ghasidas vishwavidyalaya (A central university)
4. Chairmen Departmental Research committee (DRC) of Mechanical Engineering

5. Member Departmental Research committee (DRC) of Industrial & Production Engineering
6. Coordinator for competitive exams like GATE
7. Director, Department of Mechanical Engineering SMVD University
8. Coordinator for competitive exams like GATE, IES, PSU etc
10. Coordinator B Tech project and M Tech thesis work.
11. Head School purchase committee
12. Member of board of studies
13. University / AICTE/DTE coordinator
14. MCA coordinator
- 15 Assistant Centre Superintendent
16. Head dept. of information technology