

**Govt. College of Engineering, Yavatmal (MS)**  
**Department of Mechanical Engineering**

RESUME



<b>1</b>	<b>Name</b>	<b>INGOLE SANJAY BHANUDASRAO</b>
<b>2</b>	<b>Designation</b>	<b>ASSOCIATE PROFESSOR &amp; HEAD OF THE DEPTT. , MECHANICAL ENGINEERING, GCOE Yavatmal.</b>
<b>3</b>	<b>Qualification</b>	B.E.(Mech.Engg.); 1989; VRCE Nagpur; First Division M.Tech.(Design of Machines & Mechanisms); 1998; VRCE Nagpur ; First Division. D.B.M. , 1992, RTM Nagpur University: First Division Ph. D. (Mech.Engg.) ; 2012 ; VNIT Nagpur Topic:- Linear & Non-linear Joint Parameter Estimation Supervisor: Dr. Animesh Chatterjee, Professor in Mech. Engg., VNIT Nagpur
<b>4</b>	<b>Experience:</b>	Academic / Research: 30 Yrs. Professional /Industrial: Nil
<b>5</b>	<b>Courses taught</b>	Undergraduate : Engineering Graphics ;; Design of Machines & mechanical drives; Stress Analysis; Dynamics of Machines, Theory of Machines Post Graduate : Mechanical Vibrations
<b>6</b>	<b>PhD Supervisor ; Titles of Ph. D. Supervised</b>	Recognized as Supervisor for Ph.D. program in Mechanical Engineering of Gondwana University Gadchiroli & RTM Nagpur University. PhD Supervised: Experimental investigation of Non-linear Joint parameter
<b>7</b>	<b>Topics of Research/ Interest</b>	Dynamics of Machines – Vibration analysis, Parameter estimation, Modal testing and experimental modal analysis. Condition monitoring, Design of Machines & Mechanisms.
<b>8</b>	<b>Co-ordinator of STTP/FDP/ Workshops</b>	<ol style="list-style-type: none"> <li>1. Organized one week training programme on “Application of MATLAB in Engg.” for the teachers of Engineering and Polytechnic under TEQIP during 14/11/2005 to 19/11/2005.</li> <li>2. Organised two days work shop on “Review &amp; Revision of Curriculum” for the faculties of the institute during Feb.01-02, 2011 in co-ordination with NITTTR, Bhopal.</li> <li>3. Chief Coordinator of one week DTE sponsored STTP on “Excellence in Manufacturing Engg.” for the faculties of Engg. &amp; Polytechnics in Maharashtra during 2-6 Jan. 2017.</li> <li>4. Chief Coordinator of one week MSBTE sponsored FDP on “Emerging Trends in Refrigeration &amp; Air conditioning” for the faculties of Engg. &amp; Polytechnics in Maharashtra during 9-13 Jan. 2017.</li> <li>5. Coordinator, ATAL FDP on “Emerging technologies in</li> </ol>

		Product Design & Development” 14-18 June 2021, organised by Mech. Engg. Deptt. GCOE Chandrapur & CIIT-GCOEC.
9	<b>Courses/FDP/STTP/ Workshops attended:</b>	<ol style="list-style-type: none"> <li>1. Visual C++ programming (ISTE approved) during 31/07/2000 – 11/08/00</li> <li>2. AutoCAD 2000 during 06/08/2001 – 18/08/01.</li> <li>3. ISTE STTP on Mechatronics during 13/12/2004 – 24/12/04</li> <li>4. Application of PLC &amp; SCADA in Automation (Under TEQIP) during 28/11/2005 – 03/12/05</li> <li>5. Product Design &amp; Development- Methodology, Tools &amp; Techniques during 17/01/2006 – 21/01/06.</li> <li>6. Research Methodology in Engg. &amp; Technology during 26/02/2009 – 28/02/09</li> <li>7. International Trainer &amp; Assessor Course during 14/03/2016 To 19/03/2016.</li> <li>8. Digital Skills for Professionals (AICTE approved) during 03-08 Dec.2018 at GCOE Chandrapur.</li> <li>9. Outcome Based Education (DTE approved) during 10-15 Dec.2018 at GCOE Chandrapur.</li> <li>10. Engineering Optimization (DTE Approved) during 6-10 Jan 2020 at GCOE Chandrapur</li> <li>11. Industry 4.0 (DTE approved), during 3-7 Feb. 2020 at GCOE Chandrapur.</li> <li>12. Digital Transformation in Teaching-Learning Process, (TEQIP-3-NPIU-IIT Bombay) during 14 Feb.-06 March, 2020 (Online)</li> <li>13. National level workshop on “Digital Transformation &amp; Pedagogies” (TEQIP-3-AICTE) during Aug 10-14, 2020, GCOE Karad &amp; WCE Sangli (Online)</li> <li>14. MATLAB Applications in Engineering &amp; Science (TEQIP-3), during 27 April – 01 May 2020, GCOE Karad.</li> <li>15. Outcome Based Education: A step towards excellence, (Margadarshan scheme AICTE) during 11-15 May 2020, GCOE Karad.</li> <li>16. FDP on R Programming (SB Jain-IIT Bombay) during May 5-9, 2020 (Online at SB Jain Instt. Nagpur).</li> <li>17. Online Teaching-Learning Processes using ICT tools for education 4.0,(SVP CET Nagpur-CSI) during June 8-13, 2020 (Online at SVP CET Nagpur).</li> <li>18. Advance Microsoft Excel (Capability Development by TATA Steel) during May 16, 2020.</li> <li>19. Electro-Mechanical Systems (TEQIP-3), during July 20-25, 2020 at WCE Sangli (Online)</li> <li>20. FDP on IoT and Block Chain (TCS) on May 11, 2020 (Online)</li> <li>21. Gear &amp; Gear Unit Design: Theory &amp; Practice (08 weeks – Swayam-NPTEL) during Feb-April, 2020.</li> <li>22. Principles of Vibration Control (04 weeks – Swayam-NPTEL) during Sept-Oct, 2020.</li> <li>23. Basics of Finite Element Analysis-I (08 weeks)-Swayam-NPTEL during Sept-Oct, 2020.</li> <li>24. “Environmental Challenges: Process &amp; Pulp Industry”, AICTE-ISTE sponsored Induction/Refresher program (Phase-II, online mode), 16-22 March 2021 at GCOE Chandrapur.</li> </ol>

		25. ATAL FDP on “Matlab: An Effective Tool for Academics & Research” during 5/7/2021 to 9/7/2021 at LIT Nagpur
10	<b>Publications:</b>	
	<b>International &amp; National Journals (Total 08)</b>	<ol style="list-style-type: none"> <li>1. A paper on “Vibration analysis of single lap adhesive joint: Experimental &amp; analytical investigation” has been published in the International Journal of Vibration &amp; Control, Vol.17(10), pp.1547-1556, September 2011. <b>(SCI Indexed)</b></li> <li>2. A paper on “Joint parameter identification of a cantilever beam using sub-structure synthesis and multi-linear regression” has been published in the Structural Engineering and Mechanics: An International Journal, Vol.(45),No.4(2013),pp.419-433. <b>(SCI Indexed)</b></li> <li>3. A paper on “Structural joint modeling and identification: numerical and experimental investigation” has been published in the Structural Engineering and Mechanics: An International Journal, Vol.(53),No.2(2015), pp.373-392. <b>(SCI Indexed)</b></li> <li>4. A paper on “Joint Stiffness Identification: A 3-Parameter Joint Model of Cantilever Beam.” published in International Journal of Acoustics and Vibration, vol.22, No.1, pp 3-13, March.2017. <b>(SCI Indexed)</b></li> <li>5. A paper on “Vibration analysis of three parameter model of adhesively bonded joint” has been published in the International Journal of Mechanical and Production Engineering Research and Development, Vol.(5),No.1(Feb.2015), pp.61-72.</li> <li>6. A paper on “Transducer mass loading effect on identification of joint stiffness parameter” has been published in the International Journal of modern trends in engineering and research, Vol.(2),No.2(Feb.2015), pp.191-197.</li> <li>7. A paper on “Two parameter model for joint stiffness identification in a single lap jointed structural assemblies using sub-structure synthesis” has been published in Journal of Aerospace Sciences and Technologies, Vol(72), No.2, May 2020, pp.78-87. <b>(UGC Approved)</b></li> <li>8. Ingole S.B., Rajurkar S.W. (2022) Nonlinear Joint Stiffness Parameter Identification. In: Kumar R., Chauhan V.S., Talha M., Pathak H. (eds) Machines, Mechanism and Robotics. Lecture Notes in Mechanical Engineering. Springer, Singapore.pp 379-392. <a href="https://doi.org/10.1007/978-981-16-0550-5_37">https://doi.org/10.1007/978-981-16-0550-5_37</a> <b>(Scopus Indexed)</b></li> </ol>
	<b>International/ National Conferences</b>	<ol style="list-style-type: none"> <li>1. A paper on “Formulation Of Generalized Experimental Data Based Model For Predicting Generated Noise In Power Transformer” has been accepted for presentation in Tenth World Congress on Theory of Machines &amp; Mechanisms (IFTtoMM); University of Oulu, Finland. June 20-24, 1999.</li> <li>2. A paper on “Approximate Experimental Data Based Model For Analyzing The Effect Of Leg Deflection, Magnetic Induction And Pressure In Lamination</li> </ol>

Assembly With Respect To Noise Generation In Power Transformer” has been accepted for presentation and publication in proceedings of CK – 2005, International Workshop on Computational Kinematics at University of Cassino, Italy, May 4-6, 2005

3. A paper on “Elimination Of Transducer Mass Loading Effect And Identification Of Joint Stiffness Parameter From Eigenvalues” has been accepted for presentation & Published in the proceedings of X-International Conference on the Theory of Machines & Mechanisms; Technical University of Liberec, Czech Republic, Sept. 2-4, 2008.
4. A paper on “Analysis of Balanced Single Lap Adhesive Joint: A Comparative Study” is accepted for oral presentation & Published at the ICAMME 2009: International Conference on Applied Mechanics & Mechanical Engineering; held in Bangkok, Thailand during December 25-27, 2009.
5. A paper on “A method for Joint Stiffness Identification” has been presented in ICMOC-2010: International Conference on Modeling Optimization and Computing held at NIT, Durgapur during Oct.28-30,2010 and published in the proceedings of American Institute of Physics , Vol.1298, pp. 338-343.
6. A paper on “Structural joint modeling and identification using sub-structure Synthesis and multilinear regression” is accepted for publication in the proceedings of ASME 2012 – IDETC/CIE – 12, during Aug.12-15, 2012, Chicago IL, USA.
7. A paper on “Non-Linear Joint Stiffness Parameter Identification” is presented in 4th International & 19th National Conference on Machines & Mechanisms-iNaCoMM 2019 at IIT Mandi during 5-7 Dec.2019.
8. A paper on “Product Mix Optimization – Application To Industrial Problem” has been accepted for presentation In National Workshop on Mechanical Handling Devices (IPROMM), held at V.R.C.E. Nagpur.Jan. 89.
9. A paper on “Impact Of Globalisation On Industry Institute Partnership” has been accepted for presentation in Third Annual Convention of ISTE at C.W.I.T. Pune. Oct. 31 – Nov. 01, 1998
10. A paper on “Noise Pollution Due to Transformer Audible Noise” has been accepted for presentation & published in National Seminar on Energy & Environment, at Anand Engg. College Agra, Oct.-2001
11. A paper on “Performance Analysis of an Innovated Air Lift Eductor” has been accepted for presentation & published in IE(I) Annual Function, at IE(I) Nagpur Local Center, Feb.17,2002.
12. A paper on “Implementation of Electromechanical System for Increasing Straight Pass in Transmission Assembly Line in M & M Ltd. Nagpur” has been presented and published in the proceedings of TSyGECA-06 a National Conference, at Govt. College of Engg. Aurangabad during Jan. 23-24,2006.
13. A paper on “Joint Parameter Identification of a Single Lap Jointed Beam Using Sub Structure Synthesis” has

		<p>been presented and published in the proceedings of XVII NASAS: National Seminar on Aerospace Structures held at IIT, Kanpur during Sept.22-24,2011.</p> <p>14. A paper on “A review on frequency domain analysis approach for parametric identification of nonlinear joints” is presented in 5th International &amp; 20th National Conference on Machines &amp; Mechanisms- iNaCoMM 2021 at IIIT Jabalpur during 9-11 Dec.2021.</p>
11	<b>Invited Lectures/ Resource person</b>	<ol style="list-style-type: none"> <li>1. Opportunities in Technical Education (in Carrier Fair of MSBTE) at Adarsh Bharat Vidyalaya, Mohgaon (Zilpi) on 7/2/2013.</li> <li>2. Opportunities in Technical Education (in Carrier Fair of MSBTE) Govt.Ashram Shala, Kavdas on 7/2/2013.</li> <li>3. Application and Importance of MATLAB in Engg. SDMP Nagpur (II-shift) on 18/2/2013.</li> <li>4. Dynamic analysis-a case study of joints in structures (AICTE sponsored Faculty development programme) at SDMP Nagpur on 27/11/2013.</li> <li>5. Application of MATLAB in Engg. (AICTE sponsored Faculty development programme) at SDMP Nagpur on 29/11/2013.</li> <li>6. Carrier opportunities in Mechanical Engg. Gaikwad Patil College (Poly.), Nagpur on 17/01/2014.</li> <li>7. “Structural Joint Modeling” in STTP on Finite Element Modeling, Simulation and Analysis (FEMSA-15) at Shri.Ramdeobaba College of Engg. &amp; Mangt.,Nagpur on 9/4/2015.</li> <li>8. Application of MATLAB in Engg. At GP Brahmपुरi 2/9/2015.</li> <li>9. “Machine Tool Dynamics: A Case Study” in DTE sponsored STTP on Excellence In Manufacturing Engg. At GP Nashik on 3/1/2017.</li> <li>10. “CO-PO Attainment” in FDP on “Overview of NBA Norms and Preparation for Accreditation” at GP Sakoli. On 20/05/2020</li> <li>11. “CO-PO Attainment” in FDP on “NBA e-SAR Preparation for Diploma Institutes” at GP Gondia on 17/06/2020.</li> <li>12. “CO-PO Attainment Methodology &amp; Case study” in AICTE-ISTE STTP on “NBA Accreditation: Preparation and Evaluation” at GP Thane on 16/12/2020 (03 Sessions).</li> <li>13. “CO-PO Attainment Methodology &amp; Case study” in AICTE STTP on “Pedagogic Approach For Effective Teaching Learning Through Outcome Based Education” at Anjuman College of Engg. Nagpur on 05/02/2021 and 05/03/2021.(02 sessions)</li> </ol>
12	<b>Book Chapter</b>	<p>Book Title: Machines, Mechanism and Robotics, Springer</p> <hr/> <p>Book Subtitle: Proceedings of iNaCoMM 2019 eBook ISBN: 978-981-16-0550-5</p> <hr/> <p>DOI: 10.1007/978-981-16-0550-5</p> <p>Chapter Title: Nonlinear Joint Stiffness Parameter Identification</p>
13	<b>AICTE Committee</b>	<ol style="list-style-type: none"> <li>1. Member of Expert Committee of AICTE for evaluation of</li> </ol>

		<p>MODROB proposals from NER institutes for grants for Solar Power Project.</p> <ol style="list-style-type: none"> <li>Evaluator for assessing proposals under AQIS schemes.</li> <li>Invitee in “Student Learning Assessment (SLA)Project-Mechanical Engineering” of AICTE.</li> <li>Expert for AICTE Approval Process 2020-21.</li> </ol>
14	<b>Reviewer for International Journal &amp; Conferences</b>	<ol style="list-style-type: none"> <li>International Journal of Mechanical Sciences, Elsevier</li> <li>Journal of Measurement, Elsevier</li> <li>Mechanism &amp; Machine Theory, Elsevier</li> <li>iNaCoMM 2020 at IIT Mandi</li> </ol>
15	<b>Other Achievements /Awards</b>	<ol style="list-style-type: none"> <li>Felicitated with certificate for “Outstanding Overall Performance” during academic year 1996-97; 2002-03 and 2010-11, 11-12, 12-13, 13-14,15-16 and 18-19.</li> <li>Received certificate for excellent contribution in project model on “Manually Energized Winnowing &amp; Sieving Machine”. Project model stood first in State level competition.</li> </ol>
16	<b>Memberships of Professional / Non Professional Bodies</b>	<ol style="list-style-type: none"> <li>Life Member of Indian Society for Technical Education (ISTE) – LM 29708</li> <li>Life Member of Association of Machines &amp; Mechanisms (AMM) - 20170001</li> </ol>
17	<b>Extracurricular activities/Academic contribution/Portfolios / Achievements etc.</b>	<ul style="list-style-type: none"> <li>➤ Training &amp; Placement Officer at GCOE Chandrapur (2019-2021)</li> <li>➤ Chief Coordinator CIIT at GCOE Chandrapur (2020-21).</li> <li>➤ Group Head- Design Engg. Group at GCOE Chandrapur.</li> <li>➤ Advisor of IE(I) Students’ Chapter (4402) (1996 –2000)</li> <li>➤ Design &amp; fabricated various innovative project models on “Magnetic Bearing”; “Soil Compaction Machine for APM Lab.”; “Wire Drawing Machine”, “Manually Energized Scroll Saw Machine”.</li> <li>➤ Successfully completed industry sponsored project for Atlas Copco Ltd. Nashik on “Design of Articulating arm for holding Torquing Gun” during (2016-17).</li> <li>➤ Chair technical session in National conference on Advances in Engg. And Technology for sustainable development held at Govt.Polytechnic, Nagpur on Feb.27, 2015.</li> <li>➤ Chair technical session in International conference on Green Energy for sustainable development (ICGESD-20) held at Govt.Polytechnic, Nagpur on Feb.28-29, 2020.</li> </ul>

(Dr.Sanjay B. Ingole)