

## *Curriculum Vitae of Dr. RashmiJadhav*

### **PERSONAL PARTICULARS:**



<b>Name</b>	:	<b>Dr. RashmiJadhav</b>
<b>Present Address</b>	:	3, 'Anuroop', 14A19, Near Mahavir College Nagala Park, Kolhapur - 416003
<b>Phones (M)</b>	:	8459851670 /9158988008
<b>Email</b>	:	<a href="mailto:rashmijadhav.iitb@gmail.com">rashmijadhav.iitb@gmail.com</a> <a href="mailto:rbharatey.ccoew@gmail.com">rbharatey.ccoew@gmail.com</a>
<b>Educational Qualifications</b>	:	Ph. D. (Structural Engineering) M.E. Structures B.E. Civil
<b>Experience</b>	:	12 Years (Teaching) 7 Years (Field)

### **EDUCATIONAL QUALIFICATIONS:**

<b>Name of Examinations</b>	<b>Board/Institution/ University</b>	<b>Year of passing</b>	<b>Percentage of marks obtained</b>	<b>Subjects/ Specialization</b>
Ph.D.	I.I.T.B. Mumbai	2020		Structural Engineering
M.E.	Shivaji University, Kolhapur	2011	61	Structures (Civil)
B.E.	Shivaji University, Kolhapur	1999	61	Civil Engineering
B.A. (Vocal Music)	Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur	2018	66	Hindustani Classical Music

**DETAILS OF RESEARCH**

**Patent Grant (P.I.) Solar vegetable dryer Design No. : 392425-001 rkjh[k /  
Date : 10/08/2023**

**Patent Published (Co-P.I.)**

- 1 'A friction based analysis of heat transfer efficacy on grooved tubes on a diesel engine cylinder' (Application No.202121046848 A - Publication Date : 29/10/2021)
- 2 'Development Experimental setup using low- cost filter Materials for Nitrate and Chromium (VI) Removal' (Application No. 202221033838. A - Publication Date : 29/07/2022)
- 3 'perform experiments on filter column for nitrate and chromium (vi) removal with varying filter material and contact time'(Application No. 202221057084 A - Publication Date : 14/10/2022)
- 4 'Improving the Qualities of Geopolymer Concrete using Nanomaterials and Steel Fibers' (Application No. 202341015391 A- Publication Date : 17/03/2023)

**PUBLICATIONS:**

**International Journals:**

- 1) 'Thermo-mechanical Modelling and Analysis of Adaptive NiTi Shape Memory Alloy Plates': Advances in Asian Mechanism and Machine Science, Springer Proceedings of IFToMM Asian MMS 2021, ISSN 2211-0984 ISSN 2211-0992 (electronic) Mechanisms and Machine Science, ISBN 978-3-030-91891-0 ISBN 978-3-030-91892-7 (eBook)  
<https://doi.org/10.1007/978-3-030-91892-7>
- 2) 'Comparative analysis of Steel and NiTi-SMA for residual displacement': Journal Of Xian University Of Architecture & Technology, Volume XIII, 202, ISSN No : 1006-7930  
<https://www.xajzkjdx.cn/Current-Issue/> 1006-7930
- 3) 'Seismic Performance Improvement of Steel Moment Resisting Frame Using Shape Memory Alloy': Journal of Steel Structures & Construction Volume 4 Issue 1 **2472-0437**  
<https://www.hilarispublisher.com/archive/jssc-volume-4-issue-1-year-2018.html>

**International Conferences: 6**

- 1) 'comparative analysis of shape memory alloy and elastomer composite plate for bridge bearings'Scopusindexed conference Structural Engineering Convention 2023, 7-9 December 2024. Springer proceedings
- 2) 'finite element analysis on rcc structure behaviour due to wind load for different geometric shapes'Scopus indexed conference Structural Engineering Convention 2023, 7-9 December 2024. Lecture Notes in Civil Engineering Volume 550 ISSN 2366-2557 SBN 978-981-97-7042-7 India ISSN 2366-2565 (electronic) ISBN 978-981-97-7043-4 (eBook)  
<https://doi.org/10.1007/978-981-97-7043-4>

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- 3) 'Relocation of steel beam column connection using Shape Memory Alloy' Scopus indexed conference International Conference of Creative and Innovative Solution in Civil Engineering CISCE-2023 1<sup>th</sup>- 12th August, 2023. CISCE-2023 IOP Conf. Series: Earth and Environmental Science 1326 (2024) 012158 IOP Publishing doi:10.1088/1755-1315/1326/1/012158 [IOP Conference Series: Earth and Environmental Science, Volume 1326, International Conference on Creative and Innovative Solutions in Civil Engineering \(CISCE-2023\) 11/08/2023 - 12/08/2023 Jaipur, India](#)
- 4) 'Performance assessment of SMA plates for recovery of deflection in steel frame': Forth Conference on Smart Monitoring Assessment and Rehabilitation of Civil Structures (SMAR-2017); 12-15 September 2017 Zurich Switzerland
- 5) 'Feasibility Study of Using Shape Memory Alloy Plates in Steel Frame Connections For Lateral Load Carrying Capacity' 4-7 September 2017 Paris France
- 6) 'Performance enhancement of concentrically braced frames using Shape Memory Alloy': Twentieth International Conference of Composite Structures (ICCS-20) ;4-7 September 2017 Paris France
- 7) 'Comparative Study of Retrofitting Techniques for R.C. beams': International Conference on Recent Technologies (I-CORT,2012); 9-11 Feb 2012 – Pune

### **National Conferences: 1**

- 1) 'Study of R.C. beams retrofitted with steel wire mesh jacketing': National Conference on Emerging Trends in Engineering, Technology and Architecture; 28 -29 Jan 2011 -Kolhapur

**Specialization in Ph.D.:** Structural Engineering

**Title of Thesis in Ph.D.:** Finite Element Analysis and Structural Control of Smart Structures Made of Shape Memory Alloys and Steel.

**Specialization in M.E.:** Structures (Civil)

**Title of Dissertation in M.E.:** Comparative study of retrofitting techniques for reinforced concrete beams

**B.E. Dissertations Supervised:14**

**M. Tech. Dissertations Co-Supervised:2**

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- 1) 'Conditional Assessment & Structural Audit of Old RCC Chimney & it's Strengthening' – M.Tech. (Structural Engineering)
- 2) 'Structural Diagnosis and Design of Retrofitting for Old Structures' – M. Tech. (Structural Engineering)

### **Area of Academic/Research Interest**

- 1) Retrofitting techniques for structural and nonstructural members.
- 2) Use and study of Shape Memory Alloys in Structures.

### **Courses Studied in Ph.D.:**

- 1) Advanced solid mechanics
- 2) Numerical methods
- 3) Structural Dynamics
- 4) Finite element Method
- 5) Introduction to Earthquake Engineering

### **NPTEL FDP Courses**

- 1) Maintenance and Repair of Concrete Structures
- 2) Effective Engineering Teaching in Practice
- 3) Academic Writing
- 4) Roadmap to Patenting
- 5) Matrix Method of Structural Analysis
- 6) Introduction to Composites
- 7) Leadership
- 8) Design of Steel Structures
- 9) Bridge Engineering
- 10) Engineering Mechanics
- 11) Structural Analysis
- 12) Connections in Steel Structures

**Awards and Recognitions** –Active SPOC (Single point of contact ) NPTEL local chapter 2022,2023

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### **Membership of Professional Bodies: 1**

- 1) Fellow of Institute of Engineers India and Chartered Engineer
- 2) Indian Society for Structural Engineering
- 3) Indian Society for Technical Education

### **Seminars/Workshops conducted: 3**

- 1) One week short term training program funded and sponsored by lead college cluster Shivaji University Kolhapur 'Recent industry trends in Civil Engineering' 4-8 March 2024
- 2) 'National Summit on Smart Solution to Smart Cities: Organized by G. H. Raisoni College of Engineering Nagpur
- 3) 'Workshop on research methodology': conducted by Cummins College of Engineering Nagpur 2<sup>nd</sup> March 2012
- 4) 'Progenitor 2012' - National Level Project Competition conducted by Cummins college of Engineering Nagpur 2-4 March 2012

### **Webinars Attended: 4 (One week)**

#### **NITTR :2**

Project Planning and Management 05/02/2024 – 09/02/2024 by Education and Educational Management Department

NAAC and Internal Quality Assurance 25/02/2024 – 01/03/2024 by Education and Educational Management Department

#### **ATAL FDP (Webinars) Attended: 2**

One week FDP on **Non Destructive Testing** organized by NIT Srinagar

One week FDP on **3D Printing** organized by Symbiosis College of Engineering Pune

### **Seminars/Workshops Attended: 10**

- 1) 'Finite Element Methods, Simulation, Analysis 2015': One-week Short Term Course; 6-10 April 2015 – Ramdeobaba College of Engineering and Management Nagpur.
- 2) 'Design and Analysis of RC Frames': One-week Short Term Course; 21 – 25 March 2015 – VNIT Nagpur

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- 3) 'Finite Element Methods and Applications in Civil Engineering': AICTE Sponsored one week QIP Short Term Course; 1-5 July 2013-IIT Bombay.
- 4) 'Syllabus Revision Workshop of Civil Engineering – Structural Engineering subjects': Board of studies, Faculty of Engineering and Technology, Rashtrasant Tukdojimaraj Nagpur University; 7 December 2011- Nagpur.
- 5) 'Syllabus Revision Workshop of Civil Engineering – General Engineering subjects': Board of studies, Faculty of Engineering and Technology, Rashtrasant Tukdojimaraj Nagpur University; 25 November 2011- Nagpur.
- 6) 'Concrete Mix Design Workshop': The Ambuja cement; 22-23 July 2011 Nagpur.
- 7) 'PC Hardware Maintenance and Networking': Indian Institute of Technical Education chapter Government Polytechnic Kolhapur on 29 may – 23 June 2006

### **Teaching Experience: 15 Years**

**February 2021-March 2025** : Dr. D.Y. Patil Pratishthan's College of Engineering Salokhenagar, Kolhapur

**August 2019 – January 2021**: G. H. Raisonni College of Engineering (An Autonomous Institute)

**July 2014 – April 2016**: Assistant Professor in Civil Engineering department of Ramdeobaba college of Engineering and Management, Nagpur (An Autonomous Institute)

**August 2011 – June 2014**: Assistant Professor in Allied Sciences Department of Cummins college of Engineering and Technology for women, Nagpur

**July 2008 – August 2011**: Lecturer in Allied Sciences Department of G.H. Raisonni Institute of Engineering and Technology for women, Nagpur

**August 2004 – January 2007**: Lecturer in civil department in Dr. D.Y. Patil College of Engineering and Technology Kasaba Bawada, Kolhapur.

### ***Field/ Industry Experience:***

**May 2023 till date** – State quality monitor Maharashtra state tribal department completed total 8 assignments- third party audit of 8 buildings (Visiting)

**August 2022 – till date** - Quality monitor and audit of structural work Ratuja Developers

**May 2016 – May 2020**- quality monitor and audit of structural work in Nirmitee Infra Nagpur

**May 2016 – till date** - quality monitor and audit of structural work in Mahalaxmi RCC

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contractors Kolhapur

**June 2001 – June 2004**Pratibha Constructions Kolhapur Civil Engineer, projects of Aadhar developers and builders, (Sister concern) Completion of 4 building projects (Scheme of 84 flats in New palace area and 4000 sqm area commercial building Shahupuri Kolhapur)

**June 1999 – June 2001** Site Engineer, Pratibha Constructions Kolhapur Civil Engineer, projects of Aadhar developers and builders, (Sister concern) Completion

### **Courses offered (Course Instructor):**

#### **Post Graduate Courses: 5**

- 1) Rehabilitation of Structures
- 2) Introduction to Earthquake Engineering
- 3) Theory of elasticity and elastic stability
- 4) Theory of plates and shells
- 5) Advanced design of steel structures

#### **Under Graduate Courses: 12**

- 6) Multistoried Structures
- 7) Structural Analysis
- 8) Engineering Mechanics
- 9) Strength of materials
- 10) Structural Design -Design of R.C. structures
- 11) Structural Design -Design steel structures
- 12) Basics of Civil Engineering
- 13) Design of Bridges
- 14) Transportation Engineering
- 15) Material Testing and Evaluation
- 16) Theory of Structures

#### **TECHNICAL PROFICIENCY :-**

- \*\* Expertise in ANSYS Mechanical APDL
- \*\* Knowledge about STAAD PRO
- \*\* Knowledge about SAP
- \*\* Knowledge about MATLAB
- \*\* Knowledge about Auto CAD

### ***Responsibilities Other than teaching:***

***Dean Academics*** - Worked as dean academics , Head department of Civil Engineering in Dr. D. Y. PatilPratishthan's College of Engineering, Salokhenagar, Kolhapur, the responsibility of all academic issues and exam related is successfully taken from last 15 months.NPTEL local chapter established

#### **Head Civil Engineering Department -**

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*First time in Institute campus placement drive of core civil engineering company organized and 7 students placed in the same company.*

*American concrete Institute student chapter established.*

Apart from academics, webinars of national and international experts, national level competitions, organized extra curricular courses- civil softwares.

**Controller of Exams** - in Dr. D. Y. Patil Pratishthan's College of Engineering, Salokhenagar, Kolhapur for End Semester Exam winter 2021-2023 Summer 2021-2023,

**Controller of Exams** for End Semester Exam of M. Tech. in Department of Civil Engineering G. H. Raisoni College of Engineering Nagpur (An Autonomous Institute)

**Syllabus Setting** - Syllabus setting for elective subject Repairs, Retrofitting and Rehabilitation of structures for B.Tech. Final year elective subject in Shivaji University as a member of syllabus revision committee in 2021.

Syllabus setting for elective subject Repairs, Retrofitting and Rehabilitation of structures, material testing and evaluation for B.Tech. And theory of elasticity and plasticity, Theory of plates and shells and Advanced design of Steel Structures for M.Tech. In G.H.Raisoni college of Engineering, Nagpur (Autonomous) in 2021-2022

Syllabus setting for elective subject High Rise buildings for B.Tech. Final year elective subject in Ramdeobaba College of Engineering and Management, Nagpur as a member of syllabus revision committee in 201

### **Paper setter, Examiner and moderator**

Shivaji University Kolhapur

Rashtrasant Tukdoji Maharaj Nagpur University,

Ramdeobaba college of Engineering Nagpur (An Autonomous Institute)

G. H. Raisoni college of Nagpur (An Autonomous Institute)

### **Formation of Professional chapter**

- 1) **ISTE chapter formation** – G. H. Raisoni Institute of Engineering and Technology for Women Nagpur (2008)
- 2) **ISTE chapter formation** – Cummins College of Engineering Women Nagpur (2012)
- 3) **American Concrete Institute student chapter** – G.H. Raisoni College of Engineering Nagpur (2019)
- 4) **American Society of Civil Engineering student chapter** - Dr. D. Y. Patil Pratishthan's College of Engineering, Kolhapur (Under process)

**Organization cultural activities** – Annual cultural event, Teacher's and Engineer's day celebration and other cultural activities as Cultural Committee Head G. H. Raisoni Institute of Engineering and Technology for Women Nagpur (2008-2011)

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**Laboratory set up and in charge** – Engineering Mechanics Laboratory G. H. Raisoni Institute of Engineering and Technology for Women Nagpur (2008-2011)

Engineering Mechanics Laboratory Cummins College of Engineering Women Nagpur (2011-2014)

Engineering Mechanics Laboratory Ramdeobaba College of Engineering Nagpur (2014 - 2016)

**Counselling and Mentoring** – under graduate students as Teacher guardian  
Counselling post graduate students to identify research area for dissertation

**Expert lecture** –

Retrofitting of Foundations – 5 Days STTP organized by Vivekanand Education Society’s Institute of Technology, Kolhapur

Ferrocement and Fiber reinforced concrete – PhD coursework 2023 Shivaji University

Introduction to Ansys software for Civil Engineering Applications, session in 5 days Faculty Development Program organized by Sharad Institute of Technology Yadrav

‘Retrofitting Techniques for Seismic resistance’, - As an Expert for one week Faculty Development Program conducted by Department of Civil Engineering BIT, Sindri, Dhanbad, Zarkhand

‘Smart materials and Structures’ – Skill development courses for final year students (Under graduate level) and First Year M.Tech. (Structural Engineering students) G.H. Raisoni College of Engineering Nagpur

***Declaration***

It is declared that all the information given above is true to the best of my knowledge and belief.

Place: Kolhapur

