



**Dr. R. A. MARKANDEWAR**

**Dr. RAJASHREE AJAY MARKANDEWAR**

**RASHTRAPITA MAHATMA GANDHI ARTS COMMERECE AND SCIENCE  
COLLEGE**

**PERSONAL INFORMATION :**

Full Name	: Dr. RAJASHREE AJAY MARKANDEWAR
Date of Birth	: 20/ 07/ 1981
Address	: Plot -3, Sundara Sushila Sadan, Opp to Inspire Academy, Zilha Stadium Civil Lines, Chandrapur-442402
Mobile Number	: 9970379816
E-Mail Address	: rajashree.markandewar@gmail.com

**JOB DETAILS :**

Category	: OBC
Current Designation	: ASSISTANT PROFESSOR
Date of First Appointment	: 22/ 08/ 2014
Subject for which Approval is granted by University	: CHEMISTRY

University Approval : Coll. Sec./G.U./657/2014 [Dt.29/10/2014]  
Letter No. and Date

**EDUCATIONAL QUALIFICATIONS :**

<b>Sr. No.</b>	<b>Qualification</b>	<b>Name of Board / University</b>	<b>Month and Year of Passing</b>	<b>Grade / Marks / Division</b>
1	M.Sc [ORGANIC]	RTMNU, NAGPUR	JUNE - 2006	FIRST
2	B.Ed	SRTMNU, NANDED	JUNE - 2005	SECOND
3	M.Phil [SYNTHESIS AND ANTI MICROBIAL ACTIVITY OF NOVEL FLAVONOIDS DERIVATIVES]	ALAGAPPA, KARAIKUDI	JUNE - 2010	FIRST
4	Ph.D [SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF NOVEL FLAVONOID DERIVATIVES]	SRTMNU, NANDED	JANUARY - 2014	AWARDED

**WORK EXPERIENCE DETAILS :**

<b>Sr no</b>	<b>Name of the Institution</b>	<b>Period</b>	<b>Post</b>	<b>Nature of appointment</b>
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<b>1</b>	Rashtrapita Mahatma Gandhi Mahavidyalaya, Saoli	August 2014 till date	Assistant Professor	APPROVED
<b>1</b>	Ballarpur Institute of Technology, Ballarpur	June 2009 to May 2014	HOD, BE I yr	REGULAR
<b>2</b>	Mahila Junior College, Chandrapur	Dec 2006 to May 2009	Lecturer	REGULAR
<b>3</b>	Janta Mahavidyalaya, Chandrapur	August 2006-April 2007	Lecturer	CHB

#### LIST OF PUBLICATIONS :

<b>Sr no</b>	<b>Title</b>	<b>Journal</b>	<b>Issue/ vol.</b>	<b>Impact factor</b>
1	Addition of some novel flavonols to the class of anti oxidants,	Indo American Journal of Pharmaceutical Research.	Vol.3, Issue 5, 3174, (2013).	Impact factor-1.25]
2	Green Chemistry Approach to Novel Chalcones and their anti oxidant properties.	Journal of Atoms and Molecules	Vol 3, Issue 1 , 468, (2013).	[Impact factor-0.347]
3	Reaction Dynamics and Chemical Reactivity of Nitrogen containing Aldehydes.	Oriental Journal of Chemistry	Vol 29, Issue 4, 1126, (2013).	[Impact factor-0.508]
4	Investigation of flavones as an efficient anti oxidant and anti inflammatory agents.	American Journal of Pharm Tech Research	Vol 4, Issue 1, 759, (2014).	[Impact factor-0.983]
5	Exploring Pharmacological Significance of Pyrrolodine Scaffold-A Review	Sunrise Multidisciplinary Research journal,	Special Issue(4) Feb2015,76-80 )	
6	Synthesis of 4-(4-(4-Ethyl piperazine 1yl) Phenyl)-6 phenyl-3 hydro-1H-pyrimidine-2-thione(thiopyrimidine) derivatives and their antimicrobial activites	Journal of Medicinal Chemistry and Drug Discovery	Jan 2015 special issue <b>209-217)</b>	
7	Exploring Pharmacological	World Journal of		

	significance of Piperazine Scaffold	Pharmaceutical Research		
8	Novel Heterocyclic Schiff base synthesis and Antimicrobial studies	World Journal of Pharmaceutical Research	(Vol 6(2), Nov 2016, <b>778-783</b> )	
9	Novel Heterocyclic Aryl Schiff base synthesis and Antimicrobial studies	Journal of Chemistry and Chemical Sciences	.(Vol 6(10), Oct 2016, <b>919-925</b> )	
10	Novel Pyrazolines derived from piperazine chalcones synthesis antimicrobial studies.	International Journal of Innovative Research in Science, Engineering and Technology.	Vol5(12), Dec 2016 <b>21383-387</b> )	
11	Novel Pyrazolines derived from piperidine Chalcones synthesis antimicrobial studies	Indo American Journal of Pharmaceutical Research	. Vol7(1), Jan 2017 <b>7348-7352</b> )	
12	Synthesis, Characterization of 2-Substituted Benzamidazoles via Green Catalyst	International Journal of Advance and Applied Research	Vol.4 Issue 44 (pp115-119)	
13	A Comprehensive Review of Hydrogel Materials for Heavy Metal ion Adsorption from Waste water: Synthesis, Characterization and Applications	International Journal of Science, Technology and Management	Vol-12 Issue-10 (pp 1-15)	
14	Microstructural evolution in DTAB/ KBr Micellar systems induced by nonanol : A rheological perspective.	Journal of Molecular Liquids [Elsevier]	427(2025)127438 March 2025	5.2
15	Optimizing Rheology in Nano Chitin PVA PEG Hydrogels for biomedical applications	Taylor and Francis Polymer Technology and Materials	1080/25740881 Vol 64 Issues 7 Dec 2024	3.0
16	Therapeutic Potential of Imidazothiadiazole derivatives.	African Journal of Biological Sciences	2663-2187	0.9

#### LIST OF PATENTS :

Sr. No.	Title	National / International	Patent No.
1	<b>Auf Tamsulosin basierende Derivat formulierung</b>	<b>International (German)</b>	<b>Patent No-IPC A6IK</b>

			31/18
2	<b>Device for Synthesis of Chiral Pharmaceutical Internmediates</b>	<b>Indian</b>	<b>Design Patent No 393870-001</b>
3	<b>Appratus for Extraction of Phytochemicals</b>	<b>Indian Design Patent</b>	<b>43289-001 dated 14 October 2024</b>
4	<b>Laboratory equipment for sensor based chemical reaction monitoring device</b>	<b>UK Design Patent</b>	<b>6418876 dated 22 January 2025.</b>
5	<b>Fe3O4 @SiO2 PMA- Cu Nanoparticles A Green Catalyst for Triazole Synthesis</b>	<b>Indian Patent</b>	<b>2024410151457 dated 12 July 2024</b>

#### LIST OF BOOKS PUBLISHED :

<b>Sr. No.</b>	<b>Title of Book</b>	<b>Level of Publisher</b>	<b>ISBN No.</b>	<b>Name of Publisher</b>
1	An introduction to Crystal Chemistry	National	978-93-94570-46-7	Krupa Drishti Publications
2	Fundamentals of Organic Chemistry	National	973-93-90734-40-5	World Lab Publications
3	Chemical Lab Safety Handbook November 2024	Online	ISBN 979-8346404040	Blacktether Publishers

#### LIST OF PAPERS PRESENTED IN PROCEEDINGS :

Sr. No	Name of the Conference/Seminar/ Workshop etc	Place and Name of the sponsoring Agency	Date	Paper Presented
1	ICCM-2011 Chemistry For Mankind: Innovative Ideas In Life Sciences	INTERNATIONAL RTMNU , Nagpur	09 /02/2011 TO 11/02/2011	ZOC-Catalyzed efficient synthesis of 1-5-benzodiazepines under mild conditions.
2	National Conference On Advanced Tools In Chemical Analysis	NATIONAL DEOGIRI COLLEGE, Aurangabad	26/08/2012 TO 28/08/2012	Synthetic aspects for some novel pyrazolines and their evaluation as antimicrobial agent
3	Iccb-2014 International Conference On Chemical Biology.	INTERNATIONAL CSIR-IICT , Hyderabad	6/02/2013 TO 8/02/2013	Synthesis and anti oxidant potential of novel 2,3-dihydro-2-phenyl-4 <i>H</i> -1-benzopyran-4-ones
4	International Conference On Chemical Biology, Disease Mechanism And Therapeutics(Iccb)	INTERNATIONAL CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY, Hyderabad	6to-8 Feb2014	Exploring Pharmacokinetics of Pipazine, Piperidine moiety.
5	Modern Approcahes Of Spectroscopic Techniques In Chemical, Pharmaceutical And Life Sciences( Mastcpl-14)	NATIONAL YESHWANT MAHAVIDYALAYA, Nanded	16and 17 Jan 2015	Addition of some Novel 3 hdroxy 2 phenyl chromen-4ones(3 Hydroxy-flavones) to the class of Anti-oxidants.
6	Recent Advances In Chemical Sciences. (Nsracs-2015)	NATIONAL JANTA MAHAVIDYALAYA, Chandrapur	16 feb 2015)	Exploring pharmacological significance of Piperazine scaffold

7	National Conference On Newest Developments In Chemical Sciences For Civilized Society	NATIONAL DYANOPASAK COLLEGE OF ARTS COMM,AND SCIENCE, Parbhani	December 09 to10, 2016	Synthesis of some Novel Flavones and their antimicrobial activity.
8	International Conference On Innovations In Science Technology For Sustainable Development	INTERNATIONAL ANAND NIKETAN COLLEGE OF SCIENCE ARTS AND COMMERCE, WARORA	March 14 and 15 2022	Hydrogels, promising adsorbent for heavy metal ions for waste water treatment.
9	International Conference On Basic Sciences: Global Challenges And Solutions For Sustainable Development	INTERNATIONAL CHINTAMANI COLLEGE OF SCIENCE POMBHURNA	13- 14 October 2023	Advances and Progress in heavy metal ion absorbing hydrogels and its applications : A review.
10	International Conference On Innovations In Science For Sustainable Development (Hybrid Mode)	INTERNATIONAL	19-20 March 2025	Recent advances of Stimuli Responsive Hydrogels in Drug Delivery system.
11	National Conference On Converging Perspectives : Science, Humanities And Sustainability.	NATIONAL	21-22 February 2025	Stimuli Responsive Polysaccharide based Smart Hydrogel and their emerging Applications
12	National Conference On Frontiers In Science And Technology.	NATIONAL	5October 2024	Advances and Progress in self healing hydrogels and its application in Regenerative Medicines.

**WORKSHOPS, SYMPOSIUM & CONFERENCES ATTENDED :**

Sr. No	Name	Level	Place	Period
1	Workshop-Science and Tech. Teaching in 21 <sup>st</sup> Century	STATE	Government B Ed College , Aurangabad	20/03/2007 to 24/03/2007
2	Workshop-Engineering Chemistry Syallabus	UNIVERISTY	RCERT ,Chandrapur	16/12/2011
3	Syallabus-Chemistry BSc 5 sem	UNIVERSITY	Janta college chandrapur	16/08/2014
4	CBCS syllabus in all Subjects of Science Faculty	UNIVERSITY	Shri Dnyanesh Mahavidyalaya, Nawargaon Dist Chandrapur.	16 April 2017
5	Recent Trends in Chemistry	NATIONAL	Yeshwant Chavhan College of Arts, Comm and Sci, Sillod Dist, Aurangabad.	6 February 2017
6	Scope and Relevance of CBCS for UG and PG in Chemistry	UNIVERSITY	Janata Mahavidyalaya Chandrapur	11 March 2017
7	SUMMER SCHOOL	NATIONAL	UGC HRDC Maulana Azad National Urdu University, Hyderabad, Telangana State.	24 <sup>th</sup> MAY 2017 to 13 <sup>th</sup> JUNE 2017
8	Refresher Course in Chemistry	National	UGC HRDC, University of Mumbai, Maharashtra.	12 Dec to 24 Dec 2022
91	Refresher Course in Chemistry	National	UGC HRDC, DAVV INDORE	11 Jan 2023 to 24 Jan 2023
10	FDP on Nurturing Future Leadership Program	National	MMTTP , IIM Nagpur, Maharashtra	15 <sup>th</sup> July to 19 <sup>th</sup> July 2024
11	Capacity Building Program on Cyber security.	National	TLC of IIT Madras ( IITM Pravartak)	5 <sup>th</sup> May 2025 to 9 <sup>th</sup> May 2025.
12	STP in Indian	National	Central University of Kerala UGC-MMTC	18 June 2025



	Knowledge system			to 24 June 2025
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#### INVITED GUEST LECTURES AT NATIONAL/ STATE LEVEL CONFERENCES

	<u>Topic of lecture</u>	<u>Seminar or Conference</u>	<u>National/ International/ State/ University</u>	<u>Year</u>
1	Environmental Awareness Program	Seminar by TIPSOH ( Hosur TN)	State level	2018
2	Gender Sensitization “GARIMA” Workshop	Swastika National School, Mangalore Karnataka	State Level	2019
3	Future Training for Youth Empowerment by JCI PUTTUR for College	Seminar by JCI PUTTUR Mangalore Karnataka	State Level	2020
4	Chairman for Jasmine Jaycees Academy for Smart Initiative for Empowerment	02 days Webinar by JCI India	North Region	2020
5	Skill Development Training Program on Networking	Swastika National School Mangalore Karnataka.	State Level	2020
6	Bridge the Gap (Theory and Real Life Chemistry ) By The Zamorins’ Guruvayurappan College, Kozhikode (KERALA)	National Level Induction Program for Undergraduate students	National level	2020
7	“Focuse on Future” At Shri Sant Gajanan Maharaj College of Engineering ,Shegaon Maharashtra	National Level Technical and Management Event Pursuit and Parishkriti 2021	National Level	2021
8	Time and Priority Management Sardar Vallabhbhai arts College Ahmedabad	NSS Students Orientation Program	State Level	2021

	<b>Gujarat</b>			
<b>9</b>	<b>Rise and Shine ( Chemistry for Better Future)</b>	<b>One day National E webinar on Advances in Chemical Sciences for fetter Future</b>	<b>National Level</b>	<b>20222</b>
<b>10</b>	<b>Training Program on Soft SKILLS- Topic Problem Solving Attitude</b>	<b>Training and Placement Cell Gondwana University, Gadchiroli.</b>	<b>University Level</b>	<b>2022</b>
<b>11</b>	<b>Inclusive Leadership : Thriving in a diverse new world</b>	<b>Webinar by NGO JCI Dhaka East and JCI Dhaka South Bangladesh</b>	<b>International Level</b>	<b>2022</b>
<b>12</b>	<b>Chemistry for Well Being</b>	<b>Seminar Organized by Horizon School of Physiotherapy, Nanded</b>	<b>University Level</b>	<b>2023</b>
<b>13</b>	<b>Its Me : Soft Skills and Organizational Work Culture</b>	<b>Teachers Training Workshop organized at Jind Haryana</b>	<b>State Level</b>	<b>2023</b>
<b>14</b>	<b>Youth Empowerment Training , Kochi Kerala.</b>	<b>National Conference for Class 9<sup>th</sup> to 12<sup>th</sup> Students</b>	<b>National Level</b>	<b>2024</b>
<b>15</b>	<b>Youth Empowerment Training Yelagiti, Tamilnadu</b>	<b>National Conference for Class 9<sup>th</sup> to 12<sup>th</sup> Students</b>	<b>National Level</b>	<b>2025</b>

#### **AWARDS AND RECOGNITIONS :**

- Adarsha Shikshika Puraskar by Maharastra Rajya Savitribai Phule Samiti.
- Nation Builder Teachers Award by Rotary Club of Chandrapur.
- Samaj Ratna Puraskar from Maharashtra Rajya Kumbhar MahaSangh
- Recognition by SP and Collector for Organizing Road Safety Week.
- Felicitation by Hon'ble Minister Mr Sunil Tatkare for Best Employee at BIT.

#### **MEMBERSHIP :**

- Life Member ACTRA, India.[Fellowship No.LM/34/2013]
- Member Alumni Association, SRTMU, Nanded.
- Member JCI India NGO ( Id 1257910)

#### **ENRICHMENT OF CAMPUS LIFE :**

- Program Officer NSS (2024 onwards)

- Head Women Education Cell (2015-2023)
- Administrative Responsibilities' Accomplished: 2F and 12 B UGC Recognition and Permanent Affiliation, Gondwana University as Committee head.
- Member, College NAAC Committee, Magazine Committee, Agro Forum and Student Grievance Cell, Women Grievance Cell.
- Coordinator. Indradhanushya-University Level Cultural Screening Event. [13-17 Oct-2014]
- Coordinator State Level Youth Fest, AURA 2013,
- Coordinator Vidarbha Level Youth Fest, AURA 2012, 2011.
- Coordinator Inter Collegiate Level Youth Fest, AURA 2010.
- Coordinator ARC, Committee, June 2012

**Dr. Rajashree A. Markandewar**