



**Rayat Shikshan Sanstha's**  
**Yashavantrao Chavan Institute of Science, Satara (Autonomous)**  
**Lead College of Karmaveer Bhaurao Patil University, Satara**

**Faculty Profile**

❖ **General information**

**Name** : Dr. Mrs. Mahanwar Sunanda Tulshiram  
**Designation** : Associate Professor  
**Department** : Chemistry  
**Educational Qualification** : M. Sc. B.Ed. Ph. D.  
**Date of Appointment** : 21/11/1991  
**Teaching Experience** : UG: 31 years  
PG: 14 years  
**Research Experience** : 12 years  
**Research Area** : Photochemistry



❖ **Educational Qualification Details (undergraduate onwards)**

Sr. No.	College/University	Degree	Subjects	Year	Class/Percentage
1	Sadguru Gadagemaharaj College Karad	B.Sc.	Chemistry	1989	78.22%
2	Shivaji University Kolhapur	M.Sc.	Physical Chemistry	1991	68.21%
3	Shivaji University Kolhapur	Ph. D.	Chemistry	2019	

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Sr. No.	Position	Organization	Date/Duration
1	Member – Academic Council, YCIS, Satara	Y.C.I.S. Satara	2020-2021
2	Chairperson -Grievance Redressal Cell	Y.C.I.S. Satara	2019-till date
3	Chairperson -Mentor-Mentee Scheme	Y.C.I.S. Satara	2020-till date
4	Co-ordinator Compulsory civic course	Y.C.I.S. Satara	2019-2022
5	Incharge-Internal Evaluation	Y.C.I.S. Satara	2020-till date

❖ **Awards/Honors/Recognitions/Scholarship etc.:**

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and year
1	Faculty Improvement Program Fellowship	UGC, Delhi	2017-2019
2			
3			

❖ **Membership to Professional Organizations/Associations:**

Sr. No.	Membership type (Annual/Life/any other)	Organization/Association	Date and year
1	Member of SUTA	SUTA	2002-Till date
2			

❖ **Worked as Editor/Reviewer to Journals/Books/Proceedings etc.**

Sr. No.	Name of the Journal/Book/Proceedings	ISSN/ISBN No.	Assignment (Editor/Reviewer)	Publisher	Publication year
1	-----	-----	-----	-----	-----
2					

❖ **Research Projects (Ongoing/Completed)**

Sr. No.	Title of Project	Duration	Amount Sanctioned (in Lakhs)	Agency	Status (Ongoing/ Completed)
<b>Major Research Project</b>					
1	Nil				
2					
<b>Minor Research Project</b>					
1	Studies on electron transfer reaction of oxidation of Hexitol by Fe <sup>+++</sup> in acid medium	01/01/2010-30/03/2012	2,00,000/-	UGC	Completed
2					

❖ **Research Guidance:**

- Number of students (M. Phil)      1) Completed: Nil      2) Registered: Nil
- Number of students (Ph.D.)      1) Completed: Nil      2) Registered: 02

❖ **Details of Research Publications**

**A) Patent**

Sr. No.	Title	Patent No.	Indian/US/ Any other	Granting date
1	Nil			

**B) Books/Book Chapters**

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Text)
1	Text Book of Physical Chemistry	Seth Publications	2009		Text
2					
3					
4					

**C) Datasets Submission**

Sr. No.	Title	Accession No.	Data base	Year of publication
1	Nil			

**D) Research papers:**

Sr. No	Title of paper	Journal/proceeding details (Name, volume, page no, year of publication etc.)	ISSN No	Listed in Scopus/Web of Science/ UGC Care	Impact factor (If any)
1	Fluorescence Spectroscopic Insights on the Interaction between Mesalamine and Tyrosine	International Journal of Chemical and Physical Sciences, Vol. 7(2018) 110-118.	ISSN: 2319-6602	UGC Care	IF – In process
2	Spectroscopic Investigation on the Interaction between a Novel 2-Amino-3-Cyano-5-Chlorospiro (5H-Indeno [1, 2-b] Pyran-4, 3'-Indoline)-2',5,-Dione with a Model Transporter Protein Bovine Serum Albumin	International Journal of Chemical and Physical Sciences, Vol. 7, 55-70.	ISSN: 2319-6602,	UGC Care	IF – In process
3	Quick and low cost synthesis of	Diamond & Related Materials 88 (2018)	ISSN: 0925-9635, Vol: 88,	Scopus	

	sulphur doped carbon dots by simple acidic carbonization of sucrose for the detection of Fe <sup>3+</sup> ions in highly acidic environment.	262-268.	Page: 262-268		
4	An investigation of fluorescence resonance energy transfer between Tryptophan and Quinine sulphate	Macromolecular Symposia. Vol 387, (2019) 1800204	ISSN: 1521-3900	UGC Care	IF – 0.68
5	Exploration of fluorescence quenching mechanism in Tryptophan induced by Norfloxacin: Analytical applications	Macromolecular Symposia, Vol 387, (2019) 1800208.	ISSN: 1521-3900	UGC Care	0.68
6	Study of Interaction between Human Hemoglobin and Antitubercular Isoniazid Drug and its Detection	Macromolecular Symposia, Vol 387, (2019) 1800203.	ISSN: 1521-3900	UGC Care	0.68
7	Fluorescence Spectroscopic Studies on the Interaction between 2,5-Diphenyl Oxazole and Triton X-100 Micelle	Macromolecular Symposia. Vol 387, (2019) 1800207	ISSN: 1521-3900	UGC Care	0.68
8	A highly sensitive and selective phthalazine derivative based fluorescent organic nanosheets for	Inorganica Chimica Acta 526(2021)120534	ISSN: 0020-1693, Vol: 526, Page: 120534	Scopus	2.8

simultaneous detection of Cr6+ and Mn 7+ in aqueous media				
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**E) Paper Presentation in Conference /Seminar/ Symposia:**

Sr. No	Title of paper	Name of the Conference /Seminar/ Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/State /Uni etc.)	Organizing institute
1	Fluorescence Quenching studies of Tyrosine with Riboflavin”,	<b>Second International Conference On Advances In Material Science on 22-23 December 2017</b>	<b>International</b>	<b>Raje Ramrao Mahavidyalaya, Jath.</b>
2	<b>Fluorescence Spectroscopic Insights on the Interaction between Mesalamine and Tyrosine</b>	<b>University sponsored National level Conference on Recent Innovation in Chemical and Environmental Sciences”, (RICES-2018) on 30-31 January 2018</b>	<b>National</b>	<b>Department of Chemistry Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar.</b>
3	An investigation of fluorescence resonance energy transfer between Tryptophan and Quinine sulphate	International Conference on Advances In Material Science on 27th-29th December 2018.	<b>International</b>	Raje Ramrao Mahavidyalaya, Jath.
4	Interaction of Tryptophan with Tartrazine: A Spectrofluorometric and Thermodynamic Study	International Conference on Chemistry, Environment and Energy ICCEE-2019 on 16th -18th January 2019	<b>International</b>	Y. C. Institute of Science, Satara.

**F) Citation Index**

	Google Scholar	Scopus	Web of Science
<b>Citations</b>		<b>55</b>	
<b>h-index</b>			
<b>i10-index</b>			

❖ **Participation in Orientation/Refresher/FDP/Short Term/Training Programs:**

Sr No	Name of the programme	Organizing institute	Date
1	E-content Video Creation	Department of English, Department of Fishery Science and Department of Geology of Toshniwal Arts, Commerce and Science College, Sengaon, Dist. Hingoli	11th to 13th May 2020
1	State level online workshop on e-educational content development	Shri Shahu Mandir Mahavidyalaya, Pune and Chh. Shivaji College, Satara	From 11 <sup>th</sup> May to 20 <sup>th</sup> May 2020
2	One week faculty development workshop on ICT tools for effective teaching, learning and administration from 25 to 31 may	Yashavantrao Chavan Institute of Science, Satara	From 26 <sup>th</sup> to 31 <sup>st</sup> May 2020
3	Online One Week National Workshop On "Environmental and Ecological Perspective in Current Scenario" Organized by Balwant College, Vita from 15 072020 to 21072020	Balwant College, Vita	From 15 <sup>th</sup> July 2020 to 21 <sup>st</sup> July2020
4	Online Faculty Development Programme on E-Content Development for teaching and learning Organized by S. G. M. College, Karad from 20072020 to 25072020	S. G. M. College, Karad	From 20 <sup>th</sup> July 2020 to 25 <sup>th</sup> July 2020
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❖ **Participation in Conference/Seminar/Symposia/Workshop/Any other programs:**

Sr. No.	Name of the event	Organizing institute	Level (Intl/Natl/ State/Uni/Local etc.)	Date

1	OnYe Day Training Workshop on CBCS Syllabus for B.Sc.I and M.Sc.I	Yashavantrao Chavan Institute of Science, Satara	Local	13 July 2018
2	International Conference on Chemistry, Environment and Energy ICCEE-2019 on 16th -18th January 2019	Yashavantrao Chavan Institute of Science, Satara	International	16th -18th January 2019
2	ALCHEMY IYPT2019	Yashavantrao Chavan Institute of Science, Satara	Local	27 December 2019
3	National Conference on Applications of Forensic Science For Societal Development	Yashavantrao Chavan Institute of Science, Satara	National	21-22 December 2019
4	International E-Conference on Current approaches in Life Sciences for Sustainable development	Yashavantrao Chavan Institute of Science, Satara	International	19-20 March 2021
5	One Day National Seminar on National Education Policy 2020	Yashavantrao Chavan Institute of Science, Satara	National	23 January 2021

❖ **Resource person in Conference/Seminar/Workshop/Any other programs:**

S. No.	Title of the event	Level (Intl/Natl/ State/Uni./local etc.)	Organizer	Date
1	Teacher training for mentoring and Counselling on 21 <sup>st</sup> and 22 <sup>nd</sup> October 2022	Local	Yashavantrao Chavan Institute of Science, Satara	21 st October 2022
2	Research Training for M.Sc.II students	Local	RIRD	

❖ **Chaired Sessions in Conference/Seminar/Workshop etc.:**

<b>S. No.</b>	<b>Title of the event</b>	<b>Level (Intl/Natl/ State/Uni./local etc.)</b>	<b>Organizer</b>	<b>Date</b>
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**Signature of Faculty**