

FACULTY PROFILE

Name - Dr. UMESH SHIVAJI MOTE
 Qualification - M. Sc., Ph.D.
 Designation - Associate Professor
 Department - Chemistry
 Faculty/Stream - Science



Date of Appointment - 02/08/2011

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Qualification Details –

Sr. No.	Degree	University	Year	Class/ Grade
1	B. Sc.	Shivaji University, Kolhapur	2003	First Class
2	M. Sc.	Shivaji University, Kolhapur	2005	First Class
5	Ph. D.	Shivaji University, Kolhapur	2010	-

Experience –

- Teaching** – UG – 14 years, PG – 11 years
- Research** – 14 years

Sr. No.	Designation	From	To	Name of the Institution
1	Assistant Professor	Aug 2011	Till Date	Department of Chemistry K. B. P. College, Urup Islampur
2	Assistant Professor (Contract)	July 2010	April 2011	Department of Chemistry Solapur University, Solapur.
3	UGC-Project Fellow	May 2007	March 2010	Department of Chemistry Shivaji University, Kolhapur
4	Assistant Teacher (Contract)	July 2006	April 2007	Department of Chemistry Solapur University, Solapur.

- Orientation/ Refresher/FDP

No .	Orientation/ Refresher –	Date	Place	Sponsoring Agency
1.	Orientation Course	09/06/2014 to 06/07/2014	SPU V.Vidyanagar, Anand Gujarat	UGC-ASC
2.	Refresher Course	11/08/2015 to 31/08/2015	UGC-HRDC, University of Madras, Chennai	UGC-HRDC
3.	Online Refresher course In Chemistry	01/11/2018 to 28/02/2019	Online	SWAYAM- MHRD, Govt. of India
4.	Online Refresher course In Chemistry	01/09/2019 to 31/12/2019	Online	SWAYAM- MHRD, Govt. of India
5.	Faculty development program on “Cyber Security”	16/12/2019 to 21/12/2019	Karmaveer Bhauraao Patil College, Urun- Islampur	Shivaji University Kolhapur, Faculty Development Center, (PMMMNMTT)
6.	Faculty development program on “Multimedia enriched e-content development”	21/05/2020 to 26/05/2020	Online	GAD-TLC, MHRD Center under PMMMNMTT
7.	FDP on Development & management of MOOCs & online courses using LMS – Moodle	30/06/2020 to 04/07/2020	Online	GAD-TLC, MHRD Center under PMMMNMTT
8.	Two Week Refresher Course in “Natural Science”	20/09/2022 to 04/10/2022	Online	Teaching Learning Center, Ramanujan College, University of Delhi.
9	Online Two-Week Refresher course in Chemistry	29/11/2022 to 13/12/2022	Online	Teaching learning Center, Ramanujan

				College, University of Delhi. Under PMMMNMNTT
10	NEP 2020 Orientation and Sensitization Programme	18/06/2024 to 28/06/2024	Online	UGC-MMTTC, Shri Guru Tegh Bahadur Khalsa College, University of Delhi

- **Work as a Reviewer**

Worked as a reviewer for an International Journal Analytical Letter, published by Taylor and Francis

- **Research (Author) Profile**

Term	Scopus	Research Gate	Google Scholar
Citations	302	319	361
h-index	7	8	9

- **Minor Research Project (Ongoing)**

Sr. No.	Title	Agency	Duration	Grant (Rs. Lakh)
1.	Synthesis, applications and photophysical studies of carbon nanoparticles derived from biowaste.	Shivaji University, Kolhapur	2023 to 2025	1.30

- **Minor Research Project (Completed)**

Sr. No.	Title	Agency	Duration	Grant (Rs. Lakh)
1.	A study on interaction between protein and compounds of biological importance: fluorescence spectroscopic approach	UGC (WRO) Pune	2014 to 2016	4.40

- **Ph. D. Students registered (Working)**

Sr. No.	Name of Research Scholar	Year of Registration	Title of the thesis
1.	Miss Gauri N. Dhongde	2023	Synthesis, Photophysical Investigation and Applications of Carbon Nanoparticles Derived From Carbonaceous Waste
2.	Miss. Maisra N. Attar	2023	Synthesis of nanocatalyst and its application in organic coupling reactions

• **Research Papers Published in International and National Journals:**

Sr. No.	Title	Journal Name	ISSN / ISBN No.	Impact Factor	No. of co-authors
1	Interaction of Fluorescein with Felodipine: A Spectrofluorometric and Thermodynamic Study.	Journal of Solution Chemistry 38 (2009) 619	0095-9782	1.273	3
2	Spectroscopic studies on the interaction between Norfloxacin and p-amino benzoic acid: Analytical application on determination of Norfloxacin.	Spectrochimica Acta Part A 74 (2009) 771.	1386-1425	3.232	3
3	Determination of Heparin Using Norfloxacin-cerium Complex as a Fluorescence Probe by Spectrofluorimetry.	Bulletin of Korean Chemical Society 30 (2009) 3034	1229-5949	0.611	3
4	Synthesis and photophysical studies on 5-ethoxycarbonyl-4-Cinnamyl-6-methyl-3,4-dihydropyrimidine-2(1h)-one in various solvents.	Bulletin Chemical Society of Ethiopia 23 (2009) 231	1011-3924	0.837	5
5	Fluorescence spectroscopic studies on interaction between Carprofen and triton X-100 micelle	Journal of Molecular Liquids 157 (2010) 102.	0167-7322	5.065	2
6	Effect of temperature and pH on interaction between bovine serum albumin and cetylpyridinium bromide: Fluorescence spectroscopic approach.	Journal of Luminescence, 130 (2010) 2059.	0022-2313	3.28	3
7	Interaction between felodipine and bovine serum albumin: fluorescence quenching study.	Luminescence 25 (2010) 1.	1522-7243	1.855	3
8	Fluorescence quenching studies on the interaction between Riboflavin and Norfloxacin and Analytical application on determination of vitamin B2.	Journal of Solution Chemistry 39 (2010) 97.	0095-9782	1.273	3
9	Fluorimetric Study of the Interaction between ATP and Ciprofloxacin-Y ³⁺ complex and its application.	Journal of Rare Earths 28 (2010) 329.	1000-0721	3.104	4
10	Fluorescence resonance energy transfer from tryptophan to folic acid in micellar media and water.	Journal of Photochemistry and Photobiology: B, 103 (2011) 16.	1011-1344	4.383	2

11	A novel method for ranitidine hydrochloride determination in aqueous solution based on fluorescence quenching of functionalised CdS QDs through photoinduced charge transfer process: Spectroscopic approach	Analyst 136 (2011) 2606.	1364-5528	3.978	5
12	Book review “Environmental Chemistry” by A. K. De	CURRENT SCIENCE, 107(8), (2014), 1331-1332.	0011-3891	0.756	Nil
13	Surfactant and Temperature Effects in Tyrosine/Pyridoxine Hydrochloride Systems	Journal of Surfactants Detergents 19 (2016) 553.	1558-9293	1.654	2
14	Investigations on interaction between atazanvir sulphate and bovine serum albumin by fluorescence spectroscopy	Indian Journal of Chemistry, 55A (2016) 820	0376-4710	0.489	1
15	Determination of atorvastatin calcium by quenching of tyrosine fluorescence.	Research Journal of Chemistry & Environment 24(9), (2020) 101	2278-4527	...	Nil
16	Effect of Various Aqueous Extracting Agents on Fluorescence Properties of Waste Tea Residue Derived Carbon Dots (WTR-CDs): Comparative Spectroscopic Analysis	Luminescence: Journal of Biological and Chemical Luminescence 37 (3), (2022) 440	1522-7243	2.613	3
17	Spectroscopic Investigation of Excited-State Interactions between Benzil and Mefloquine: A Fluorescence Quenching Study	ChemSci Advances, 2025, Vol. 2, No. 3, 228-234	2997-9587	--	--
18	Investigation of Interaction Between Benzil and Riboflavin: Fluorescence Resonance Energy Transfer Approach	Journal of Technology	1012-3407	0.3	1

- **Work as Resource Person/Chairperson for different programs**

No.	Title of the program	Organizer	Date of the Program	Designation	Level
1	Guest lecture on Electrochemistry	Arts, Commerce and Science	16/03/2024	Resource Person	College

		College Palus			
2	Guest lecture on career building and Motivation	Shri Venkateshwara College of Science, Peth	09/07/2024	Resource Person	College
3	National Conference on 'Innovative Approaches in Chemical and Environmental Sciences'	Department of Chemistry, Balwant College, Vita.	12/03/2025	Chair-person for Session II	National
4	National Conference on Advances in Pure and Applied Sciences	Smt. Kusumtai Rajarambapu Patil Kanya Mahavidyalaya, Urun-Islampur	22/03/2025	Examiner for Session III: Poster Presentation Session	National

- Research Paper Presented In National and International Conferences**

No.	Date	Place	Organized By	Theme	Level
1.	21/02/2025 to 22/02/ 2025	Warananagar	Yashwantrao Chavan Warana Mahavidyalaya, Warananagar	National Conference on 'Sustainable Development and Scientific Synergies for the Future'	National
2.	16/02/2019 to 18/02/2019	Satara	Yashvantrao Chavan Institute of Science, Satara	International Conference on Chemistry, Environment and Energy	International
3.	01/02/2018 to 03/02/2018	Kolhapur	Department of Chemistry, Shivaji University, Kolhapur	International conference on Advances in Chemical Sciences	International
4.	23/01/2018	Islampur	K. B. P. College, Urun-Islampur, Tal. Walwa, Sangli	National Conference on Recent advances in physics and natural sciences	National
5.	06/02/2016 -	Kolhapur	Dept. of Chemistry, Shahu College,	International Conference on Opportunities and	International

	07/02/2016		Kolhapur	Challenges before 21 st Century India	
6.	09/03/2015 to 11/03/2015	Pandharpur; Dist. Solapur (M.S.) India	K. B. P. Mahavidyalaya, Pandharpur; Dist. Solapur (M.S.) India	International Conference on Functional Materials @ Nanoscale: Concerns and Challenges	International
7.	22-23 rd Jan. 2013	Kolhapur	Shivaji University, Kolhapur	Current research in Chemical Science	National
8.	16-17 th Dec. 2011	Pandharpur, Solapur	K. B. P. Mahavidyalaya, Pandharpur, Solapur	Advanced Spectral Methods of Analysis	National
9.	9-11 Feb 2010	Gandhigram, Tamilnadu	Luminescence Society of India	Luminescence and its Applications	National

• Participation

i) Conference

No.	Date(s)	Place	Organized By	Theme	Level
1.	16/02/2019	Islampur	K. B. P. College Islampur	Language Literature and Culture	National
2.	04/03/2016-05/03/2016	Ahemadnagar	New A C S College, Ahemadnagar.	Bitotechnology for Sustainable Future	National
3.	16/01/2015-17/01/2015	Kolhapur	Shivaji University, Kolhapur	Frontiers in Chemical and Material Sciences	National
4.	22nd & 23th Sept 2013	Tasgaon	Dept of Chemistry PDVP college Tasgaon.	Frontiers in Chemical & Biological Sciences.	National
5.	6 th & 7 th Sept 2013	Nipani	Devchand College Nipani	Drug Designing & Discovery	National
6.	22-23/01/2013	Kolhapur	Shivaji University, Kolhapur	Current research in Chemical Science	National
7.	11-12/02/2011	Chandigarh Punjab	Punjab University, Chandigarh	Emerging Trends in Chemistry	International
8.	09 – 11/02/2010	Gandhigram Tamilnadu	Gandhigram Rural Institute, Gandhigram	Luminescence and its Applications	National
9.	09 – 11/12/2008	Kolhapur	Shivaji University, Kolhapur	Nanomaterials and Applications	International

ii) Seminars

No.	Date(s)	Place	Organized By	Theme	Level
1.	1 st Oct. 2013	Sangli	Kasturbai Walchand College Sangli	Emerging Trends in Chemistry through Green Approach	State
2.	07 – 08	Chikodi	Basavprabhu Kore	The world of Nanoscience	National

	/02/2013		College Chikodi.		
3.	17 – 18 /09/2012	Kolhapur	Shivaji University, Kolhapur	Advanced synthesis of Nanomaterials and Applications	National
4.	16 – 17 /12/2011	Pandharpur	K. B. P. Mahavidyalaya Pandharpur, Solapur	Advanced Spectral Methods of Analysis	National
5.	17 – 18 /08/2010	Kolhapur	Rajarshi Chhatrapati Shahu College, Kolhapur	Advances in Coordination Chemistry	National
6.	23 – 24 /12/2009	Kolhapur	Shivaji University, Kolhapur	Advanced synthetic Methodologies and Functional Materials	National
7.	18/02/2008	Dharwad, Karnatak	Karnatak University, Dharwad	Recent Trends in Chemistry	National
8.	01 – 02 /02/2008	Kolhapur	Shivaji University, Kolhapur	Synthesis of New Materials for Industrial Applications	National

iii) Workshops

No.	Date(s)	Place	Organized By	Theme	Level
1	05/03/2019 & 06/03/2019	Kolhapur	Rajarshi Chhatrapati Shahu College, Kolhapur	e-Content Development for Blended Learning	National
2	11/01/2018	Islampur	K. B. P. College, Urun-Islampur	ICT Based Teaching- Learning Process	Lead College
3	14/08/2014	Satara	Y. C. Institute of Science, Satara	New and Revised Syllabus of B. Sc. part- II, Physical Chemistry	University
4	13 th Aug. 2013	Rethare BK	Krishna Mahavidyalaya, Rethare BK	Revised syllabus of Practical Syllabus Chemistry B.Sc.I	University
5	7 th Aug. 2012	Khatav	Shahajiraje Mahavidyalaya, Khatav	New and Revised Syllabus for B. Sc. III (Physical)	University
6	10 th Aug. 2011	Kolhapur	Vivekanand College, Kolhapur	Workshop on Revised Syllabus of B. Sc.II	University

- Participation in college Academic and administration committees.

No	Title of the committee/program	Responsibilities
1	Research and Development Cell	Coordinator
2	Institutional Avishkar Committee	Chairman
3	Criterion III	Chairman
4	Internal Quality Assurance Cell (IQAC)	Member
5	Prospectus Committee	Member
6	Science and Nature club	Member
7	NIRF committee	Member
8	Library committee	Member
9	Faculty Development	Member
10	Admission Committee (B. Sc. I)	Member
11	Counselling Committee	Member

- **Student-centric activities**

1. Seminar
2. Group Discussion.
3. Event Organization.
4. Study Tours.
5. Competitive Examination Guidance.
6. Encouragement For Participation in Chem-Quiz.
7. Use of Audio-Visual Aids.
8. Project Study.

- **Examination Work**

1. Involvement in B.Sc. and M. Sc. University Practical Examination at College Level Since 2011.
2. Worked as Examiner and Moderator.
3. Setting of question papers for University Examinations
4. SRPD Coordinator

For Digital Learning, a website is designed and maintained to deliver study materials to students.

Website link: www.moteumesh.wordpress.com