

## 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

Email - [moteumesh@gmail.com](mailto:moteumesh@gmail.com)

Website – [www.moteumesh.wordpress.com](http://www.moteumesh.wordpress.com)

Youtube Channel: 1. <https://bit.ly/3k12mhb> 2. <https://bit.ly/3miflsh>



### 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 –

1. **Teaching** – UG – 14 years, PG – 11 years

2. **Research** – 14 years

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

• **Orientation/ Refresher/FDP**

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

|    |  |                          |        |   |
|----|--|--------------------------|--------|---|
|    |  |                          |        | College, University of Delhi. Under PMMMMNMTT                         |
| 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 <sup>3+</sup> 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 | Natoinal      |
| 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 <sup>st</sup> 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 <sup>rd</sup> Jan. 2013 | Kolhapur                               | Shivaji University, Kolhapur                                   | Current research in Chemical Science  | National      |
| 8. | 16-17 <sup>th</sup> 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 <sup>th</sup> & 7 <sup>th</sup> 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 <sup>st</sup> 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<br>/09/2012 | Kolhapur             | Shivaji University,<br>Kolhapur                    | Advanced synthesis of<br>Nanomaterials and<br>Applications      | National |
| 4. | 16 – 17<br>/12/2011 | Pandharpur           | K. B. P. Mahavidyalaya<br>Pandharpur, Solapur      | Advanced Spectral Methods<br>of Analysis                        | National |
| 5. | 17 – 18<br>/08/2010 | Kolhapur             | Rajarshi Chhatrapati<br>Shahu College,<br>Kolhapur | Advances in Coordination<br>Chemistry                           | National |
| 6. | 23 – 24<br>/12/2009 | Kolhapur             | Shivaji University,<br>Kolhapur                    | Advanced synthetic<br>Methodologies and<br>Functional Materials | National |
| 7. | 18/02/2008          | Dharwad,<br>Karnatak | Karnatak University,<br>Dharwad                    | Recent Trends in Chemistry                                      | National |
| 8. | 01 – 02<br>/02/2008 | Kolhapur             | Shivaji University,<br>Kolhapur                    | Synthesis of New Materials<br>for Industrial Applications       | National |

### iii) Workshops

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