

## THE DEPARTMENT OF ANALYTICAL CHEMISTRY

### **Establishment:**

The department of Analytical Chemistry was established in the year of 1999. Sanjeevane Mahavidyalaya, Chapoli, is only institution in Chakur Tahsil which runs science faculty with basic as well as applied subjects. Analytical Chemistry is one of the applied subjects which provides various carrier opportunities to the students. The Faculty in the department of Analytical Chemistry has been actively engaged in the process of teaching, learning and evaluation. It has been always determined to increase the level of quality education undertaking various kinds of curricular and co-curricular activities like poster presentation as well as hands on training which accelerates interest of student in the research activities. After completion of UG and PG in Analytical Chemistry student will have job opportunities in various chemical industries as a chemical analyst in quality control department of private and public sectors. Thus, the students from rural background are provided an opportunity to pursue their higher studies in Analytical Chemistry.

### Objectives of the Department

1. To create interest of Analytical Chemistry among the students.
2. To encourage students for self-employment with the basic knowledge of Analytical Chemistry.
3. To enhance the knowledge about chemicals and their different types of reactions to students.
4. To create employability skills among the students.
5. To encourage students to go for research in the field of Analytical Chemistry.
6. To offer platform to the students for career building in Analytical Chemistry.
7. To make practically skilled and trained personnel in Analytical Chemistry with various analytical techniques.

8. To acquaint the students with job opportunities in the field of Analytical chemistry.

### About Research:

The faculty member of the department Mr. Shinde A.R. is research oriented. He has been publishing research papers in the national and international journals. He has published research papers in the reputed international journal listed in Scopus such as “Synthetic communication” and “Anti-infective Agent” as well as other national and international journals.

### Faculty Profile with Name, Qualification, Designation, (Ph.D./M.Phil.)

Sr. No.	Faculty Name	Qualification	Date of Appointment	Designation	Teaching Experience	Research Experience	Profile
01	Mr. Shinde A. R.	M. Sc., B. Ed., SET, NET, GATE, Ph. D. (pursuing)	25.11.2014	Assistant Professor	06 Year	Nil	Click Here

### Area of Research

- “Synthesis of Heterocyclic and Spiro-heterocyclic compounds”

### List of Publications:

- 1) Climate Change and Chemistry. Shinde A.R. *CTBC'S International Research Journal*, Vol.2 (7) 2016, 65-68. (ISSN2350-0905)
- 2) Synthesis, Characterization and Biological Activity of Spiroheterocyclic Compounds from Isatin Derivatives. Shinde A.R., Dr. Shirodkar S.G. *National conference on Emerging Trends and Challenges in Synthetic and Nanochemistry, Organised by Department of Chemistry RSM Latur*. 11<sup>th</sup> and 12<sup>th</sup> March 2016 (ISBN-9789384810-15-3).

- 3) One Pot Synthesis of 1-Amidoalkyl-2-Naphthols from 2- Naphthol, Aldehydes, and amides under Solvent Free Condition. Muley D.B., Shinde A.R. *International Innovative Journal Impact Factor*.2017, 154(ISSN2319-8648).
- 4) Synthesis of Schiff's Bases from 2-Amino-4-Aryl-3-Cyano-5-OxoH-,6,7,8Tetrahydrobenzopyran Derivatives and substituted aldehydes and Their Transition Metal Complexes. D.T. Biradar, D.B. Muley, A.R. Shinde, M.B. Swami. *International Journal of Universal Science And Technology*. Vol.3 (02) 2018, 77-78. (ISSN-2454-7263)
- 5) A New Route of Synthesis and Characterization of Novel Spiro- Heterocyclic Compounds From Semicarbazones, Shinde A.R., Muley D.B. *International Journal of Universal Science And Technology*. Vol.3 (04) 2018,193-198. (ISSN-2454-7263).
- 6) A Brief review on various synthetic approaches of biologically active nitrogen and sulphur containing spiro-heterocycles. Shinde A.R., Muley D.B., Bondge A.S. *Ayushi International Interdisciplinary Research Journal*. Special issue 48, 2018, 70-74. (ISSN2349-638x).
- 7) A Brief Review on Synthesis and Application of Quinazolines and Their Derivatives. Shinde A.R., Muley D.B. *International Journal of Research and Analytical Review (IJRAR)*. Vol.6 (2) 2019, 572- 581(E-ISSN 2348-1269, P-ISSN-2349-5138).
- 8) Physico-chemical parameter and seasonal algal periodicity of Mahapur reservoir, Latur Maharashtra, S.G. Yadav, A.R. Shinde, G.R. Nagargoje. *V.R.J.F.P.S*. Vol.1 (2) (2014), 36-44.(ISSN2348-7976)
- 9) Kinetics and mechanism of Iridium (III) catalyzed oxidation of 3-aminp-1-propanol by cerium (IV) in aqueous sulphuric acid medium. *J. Universal Research Analysis*. Vol. 4(8) 2014, 1-6. (ISSN 2229- 4406)
- 10) An Over View Of Recent Advances in Analytical Instrumentation. Shinde A.R. *Journal of Current Pharma Research*.2020, 10(03), 3796-3803(ISSN-2230-7842)
- 11) Physico-chemical parameter and seasonal algal periodicity of Rachanawadi reservoir, Tq. Chakur Dist. Latur, Maharashtra, S.G. Yadav, A.R. Shinde, G.R. Nagargoje. *UGC sponsored National conference on Water management. Organized by Vaidhyath college, Parali Vaijanath* , Feb.15-16,2015(ISBN 978-93-84451-42-4. P-18-22.
- 12) Synthesis, Characterization and Evaluation of Antioxidant And Antimicrobial Activity of Spirochromone Derivatives. Shinde A.R., Muley D.B. *J. Anti- Infective Agent*.2020, 18,352-361(ISSN: 2211-3525)

- 13) One- Pot B (C<sub>6</sub>F<sub>5</sub>)<sub>3</sub> Catalyzed Cascade Synthesis of 2- Substituted-2, 3- dihydroquinazolin-4(1H) - Ones. Shinde A.R., Mane Y.D., Muley D.B. *Synthetic Communication*.2020, 50(1)1-8

**Co-curricular Activities:**

The department of Analytical Chemistry is constantly working for the overall development of the students. Hence it is conducting the following various co-curricular activities for the students.

1. Student Seminar
2. Poster presentation in Science Exhibition.
3. Group Discussion
4. Presentation
5. Projects
6. Tutorials

**Services & Facilities Available:**

1. Well-equipped Laboratory
2. Adequate Study Material
3. Practical Demonstrations
4. Skill Enhancement Course
5. Career Guidance & Counselling
6. E -content

**Mr. A. R. Shinde**  
Assistant Professor  
Department of Analytical Chemistry  
Sanjeevane Mahavidyalaya, Chapoli