

Annual Report Chemistry Departments 2015-16

The academic activities of the Chemistry department commenced from the 9th June 2015. Department of Chemistry formed the Chemical Association for the year 2015-16 to give broader prospective regarding subject of Chemistry. Inaugural function of Chemical Association was organised on dated 13/10/15 by the hands of Dr. V. S. Jamode, Ex-Pro VC SGB Amravati University Amravati. Dr. R. P. Ganorkar and Mr. A. B. Sahare was the In-Charge of the association and Mr. N. W. Wanjari was a president.

The various activities of Chemistry Department are as follows:-

- Ku. Chhaya Wankhade secured 4th merit in B.Sc. at science faculty of S.G.B. Amravati University, Amravati.
- Mr. Pankaj Galkate, M.Sc.I (Sem-II) has participated in Intercollegiate Seminar Competition organized by Shri Shivaji College, Akola in collaboration with AUCTA on 15-02-16.
- Ku. Mayuri Nimbalkar & Ku. Nikita Bahurupi from B.Sc. I (Sem-II) have participated in Chemi-quiz competition organized by AUCTA at ShriShivaji College of Science, Amravati.
- Ku. Trupti Malpe from B.Sc.II (Sem-IV) has participated in State Level Seminar competition organized by G. S. Arts, Comm. and Science College, Khamgaonon 20-02-16.
- Ku. Ashwini Khapre B.Sc.III (Sem-VI) has participated in Seminar Competition organized by Dr. R. G. Rathod Arts & Science College, Murtizapur.

- Number of faculty with completed projects from

1	Physico-Chemical characterization Analysis and removal of toxic metal ion in Simbhora dam water using various tree bark by adsorptions.	Dr. U. E. Chaudhari	Completed
2	Studies on the synthesis of bis-pyrazolines & bis-pyrazoles Complexes their pH metric confirmation and significance in drug chemistry	Dr. R. P. Ganorkar	Ongoing

- Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received-

1	Dr. U. E. Chaudhari (Principle investigator)	70,000
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2	Dr. R. P. Ganorkar	70,000
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- Research Centre /facility recognized by the University- **Yes**

Chemistry Laboratory is recognized as a research laboratory by SGB, Amravati University Amravati. Wide letter number AU/554/274/2007. Dated - 05/09/2007.

- One Student have been submitted Ph. D thesis.

➤ **Publications:**

a) Publications per faculty

- Dr. U. E. Chaudhari has published following research papers in National & International Journals and one student submitted Ph.D. Thesis under his supervision.

a) To study the application of different isotherm models on Bismuth (III) ions adsorption onto impregnated granular activated charcoal, Ame. J. Pharmatech Res. 5(2), 2015, 424-433

b) Assessment of physico-chemical status of ground water taken from different sites of Nagpur district and Amravati district, Maharashtra, india, Ame. J. Pharmatech Res. 5(2), 2015, 424-433

c) Surface modified charcoal for scavenging of manganese (II) metal ions from aqueous solution. EJBPS, volume 2, issue-3, 426-433

d) Physico-chemical analysis of ground water affected by ganapati visarjan, IJARCS Vol. 2, issue-11, Nov. 2015, 1-3

- Dr. R. P. Ganorkar has published following research papers in International journals and presented research paper in National Conference.

a) Physico-chemical characters and quality assessment of some soil in the region of Khedi village of Amravati district (Maharashtra State), India. *Journal of Indian Chemical Society*. . 92, 1026-1028.(2015).

b) Studies On The Phytochemical, Spectroscopic Characterization And Antibacterial Efficiency Of *Urginea Indica* (Roxb.) Kunth (Liliaceae) and *Cyclea Peltata* Arn. Ex Wight (Menispermaceae). *European Journal Of Pharmaceutical and Medical Research*, 2(6), 171-176, (2015). ISSN:3294-3211.

c) Synthesis, Structural And Optical Properties Of L-Valine Modified ZnO Nanoparticles, *International Journal of Chemical Sciences: 13(4), 2039-2048, (2015).ISSN 0972-768X.*

d) Synthesis And Characterization Of Gelatin Capped ZnO Nanoparticles. *International Journal Of Scientific Research*. 5 (1) ,328-330,(2016) ,ISSN No 2277 – 8179.

- Mr. A. B. Sahare presented research papers in National Conferences and published two research papers in International Journals.

a) Synthesis & thermokinetic investigation of Schiff base complexes of (E)-4-chloro-2-(phenethylimino) (phenyl) methyl phenol, National Conference on *Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016)*.

b) Seasonal variation of groundwater quality of Akola city, Maharashtra, India, *Am. J. Pharm. Tech. Res.*, 5(6); 2015.

c) Physico-Chemical studies of groundwater samples from villages of Narkhed & Warud Tehsils of Vidarbha Region Maharashtra, India, *der Chemica Sinica*, 7(2), 2016.

➤ **Faculty as members in**

a) National committees : Nil

b) International Committees . Dr. R. P. Ganorkar Reviver of Multilogic in Science (International Journal of Science, agriculture and Engineering)

c) Editorial Boards:- 01 By Dr. U.E. Chaudhari in International Journal.

➤ **Student projects**

a) Percentage of students who have done in-house projects including inter departmental programme :- M.Sc. – 100%

➤ **List of Eminent Academicians and scientists/ visitors to the department-**

1. Dr. V. S. Jamode, Ex-Pro Vice Chancellor SGB Amravati University, Amravati

➤ Details of students enrichment programmers (Special lectures / Workshops / Seminar) with external experts :-

• **Seminar**

Sr. No	Year	Name of Guest	Name of the Topic
1	2015-16	Dr. V. S. Jamode	N.M.R. Spectroscopy

• **Intercollegiate Chemi Quiz Competitions :-** Every year Chemiquize competitions was organized by AUCTA and Students of B.Sc-I participated in Chemi quiz competitions and our department also organized Chemi Quiz Contest for B.Sc. I and Top Rank Students have been send for Intercollegiate Chemi Quiz Competitions .

S.N	Year	Name Of The Students	College Name
1	2015-16	Ku. Mayuri Nimbalkar & Ku. Nikita Bahurupi	AUCTA at ShriShivaji College of Science,

			Amravati.
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- **Aptitude Test:-** Every year AUCTA Organized aptitude test for B.Sc. III Students and students of our department participate in the same.
- **Teaching methods adopted to improve student learning:-** Lectures Method, Question Answer Method, Group Discussions, Seminar, Tour, Use Of LCD, Direct Projector and OHP etc.
- **Participation in Institutional Social Responsibility (ISR) and Extension activities**
 - Dr. U. E. Chaudhari Deliver Guest lecture every year on environmental science in YCMOU.
 - Dr. R.P.Ganorkar worked as a Judge in University Seminar Competition on 3S at IMS College, Warud .
 - Prof. A. B. Sahare has delivered Guest Lecture on “Flame Emission & Atomic Absorption Spectroscopy” for P.G. Students at R.L.T. College of Science, Akola.
- **Result of the Department**

Sr. No.	Class	Semester	% Result
1	B.Sc.I	Sem-I	53.15
		Sem-II	71.06
2	B.Sc.II	Sem-III	52.00
		Sem-IV	34.00
3	B.Sc.III	Sem-V	63.79
		Sem-VI	65.51