

Department of Chemistry

Akanksha (2012-13)

Departmental Activity

- Department of Chemistry has arranged Workshop on “NET-SET Guidance” on February 22th-24th, 2013.

Visit to Campus/ Industries/ institute:

- M.Sc. I and II students visited Vinati organics Pvt. Ltd, Lote, Chiplun.
- U.G. and P.G. students visited IUCAA on 28th February 2012, on Science day.

Placement:

- Campus interviews were arranged for M.Sc. Students by companies like Evolvus, Pune; Lupin, Ltd., Pune; Innovassynth, Khopoli; Jubilant Company, Nodia; So far 18 students have been placed.

Quize-Competition:

- Department of Chemistry has arranged “Chem-Quiz” on 19th January. 2013 organized by T.Y.B.Sc. Students for F.Y. and S.Y. students

Cultural Activities:

- Department of Chemistry has arranged Khandenavami Pujan on

Extension Activities:

Staff Achievements

Dr. Madhuri S. Kulkarni

- Participation in “CRSI zonal meeting in May 13-14 2011, Chemical education programme.”, at NCL, Pune-08
- Participation in National Seminar on “Recent trends in Chemical and Material Science” “Global challenges-The role of chemistry in giving their solutions, at Y. M. College, Pune on 12 -13 January 2013.
- Coordinator of Workshop on “NET-SET Guidance” on February 22-24th, 2013.

Mr. Dnyaneshwar Thakar

- Completed general orientation programme at UGC staff College, UOP during 3rd Aug 2012 to 30th Aug 2012 with A grade.
- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013. at Modern College, Ganeshkhind, Pune-53.

Mrs. Anuradha Bhamidi

- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013. at Modern College, Ganeshkhind, Pune-53

Dr. Sushma Katade:

- Presented paper in “International Conference of Indian Council of Chemists” titled “Trends in Chemical Sciences Going Beyond Frontiers”, Kuala Lumpur (Malaysia), 10-12 June 2012.
- Presented paper in “National Conference on Exploring Strategies For Enhancement of Secondary Metabolites in Medicinal Plants”, Department of Botany, University of Pune, 13-14, February 2013.
- Working as co-ordinator for RIO+20 India Certification Programme of United Nations Conference on Sustainable Development during the year 2-12-13.
- Participated in one week “National Training Workshop on Biodiversity Conservation for Scientist & Technologists working in Government Sector” Under the DISHA programme of DST on 18-22 February, 2013 at Wildlife Institute of India at Dehradun, India.

Dr. Sushama Kale

- Participation in Workshop on Implementation of Credit system for P.G. courses in Colleges affiliated to UOP on 13th Feb 2013 at AGC.
- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013.
at Modern College, Ganeshkhind, Pune-53

Dr. Mohini Kute

- Attended the 81st DAE BRNS-IANCAS, National Workshop on nuclear and radiation Chemistry held during 19-25th November 2012, organized by Department of Chemistry, University of Pune, Pune in collaboration with Indian Association of Nuclear Chemists and Allied Scientists.
- Presented a Paper in the 31st National Conference organized by the Indian Council of Chemists, to be held at University of Rajkot, Gujarat during 26-28th December 2012.
- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013. at Modern College, Ganeshkhind, Pune-53

Mrs. Ketaki Saravate

- Paper presentation in National Conference on “Recent trends in Chemical and Material Science” held at Y.M. College, BVP, Pune on 12-13 January, 2013
- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013.

at Modern College, Ganeshkhind,Pune-53

Mrs. Revati Nagarkar

- Participated and received prize in the National Conference on“Recent trends in Chemical and Material Science” held at Y.M. College, BVP, Pune on 13th -14th February 2012
- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013.
- , at Modern College, Ganeshkhind,Pune-53

Mrs. Gayatri Shrotriya:

- Received Prize for a talk on “Shikshan Yog” in 18th National Conference of Jyotish at Shegaon, 7 to 9 december 2012.
- Completed Bhavishya Bhushan degree and was awarded on 16th October 2012.
- Attended one day workshop organized by BASF at Goregaon on 8th January 2013
- Made a survey on use of chemicals by villagers of Garade ,Tal. Purandar for NSS.
- Participated in Workshop on “NET-SET Guidance” on February 22th-24th, 2013. at Modern College, Ganeshkhind,Pune-53

Mrs. Deepali Kale:

- **Received CSIR JRF-NET**

Student Achievement:

Competitions:

1.Govinda Mali:

Separation of Secondary Metabolite From Methanol Extract of *Sterculia Foetida* Leaves and Mahesh Kutwal Comparison of Secondary Metabolite by TLC from different solvent extracts of three medicinal plants of same species.

FIST information

Name of the department: Chemistry

Please give following information during 2005-2011 with proper supportive documents

(please submit the soft copy on O server FIST 19dec2011 folder by 12th December 2011)

Research Activities

1) How does the department promote student/faculty participation in research?

Students are encouraged to do research projects during their post graduation which is an optional course in their university syllabus. Students get hands on experience on various instruments like UV visible spectrophotometer (spectra scan 2600), polarograph etc. They avail the facility of literature referencing by use of library software.

2) What are the major research facilities available?

The department has basic instruments like digital balance, nitrogen cylinder, heating mantles, oil baths, magnetic stirrers, distillation assemblies, fine chemicals, solvents UV visible spectrophotometer (spectra scan 2600), polarograph, columns, vacuum pumps

3) Give details of the initiatives taken by the institution for collaborative research.

4) Give details of the research guides and research students of the institution.

Recognized Research Guides:

Sr. No.	Name	M.Phil/ Ph.D.	Subject	Letter number

5) **Faculties awarded Ph.D. / M.Phil degree.**

S. No.	Name	Date of declaration
Ph.D.		
	NA	
M.Phil.		
	NA	

6) **Staff member who have submitted her thesis for Ph.D./M.Phil.**

S. No.	Name	Date of thesis submission
Ph.D./MPhil		
	NA	

7) **Staff members registered for Ph.D. /M.Phil.**

S. No.	Name	Date of registration
Ph.D./M.Phil		
	NA	

8) Give details of the following:

a) Departments recognized as research centres:

(Letter number and date)

b) Priority areas for research:

9) Ongoing/completed/proposed Faculty Research Projects

BCUD minor projects

Sr. No.	Name of the Principal Investigator	Start-end date	Amount (Rs.)	Name of the project (major/minor)
1.	Dr. Mrs. Sushama R Katade	Submitted	280000/-	Synthesis of biologically active chalcone and pyrazole derivative
2.	Dr. Mrs. Madhuri Kulkarni			Synthesis of peptide-deformylase inhibitor as broad spectrum antibacterials.

UGC minor projects

	Principal investigator	Start-end date	Amount (Rs.)	Name of the project (major/minor)
	Dr.Mrs.Madhuri Kulkarni			Synthesis of natifine and its analog
	Dr.Mrs. Sushama R Katade	submitted	290000/-	Determination of larvicidal activity of some indigenous plants from Maharashtra.

Projects of any other funding agency

	Principal investigator	Start-end date	Amount (Rs.)	Name of the project (major/minor)
	NA			

11) What are the major achievements of the research activities of the department?

M.Sc. Research Projects-32

Journal publication -01

12) a) Give details for the research publications of the staff in the following format

- Redox chemistry of 6,7-dicyanodipyrido quinoxaline: A pulse radiolysis study;
Mukula S. Kulkarni, B.S.M.Rao, Inorg Chim Acta, 2010,65-77.

Title of the paper, name of the authors (**put faculty's name in bold**), *name of the journal in italics*, year, volume number, starting-end page number.

Citation index; impact factor:

b) Give details for the research publications of the student in the following format

Title of the paper, name of the authors (**put student's name in bold**), *name of the journal in italics*, year, volume number, starting-end page number.

Citation index; impact factor:

NA

13) a) Give details for the international conferences attended

- **Sushma R.Katade**, Paper presentation in International conference "Global challenges-The role of chemistry in giving their solutions, Bangkok 11 -15 June 2011.
- **Sushma R.Katade**, Paper presentation International conference on current trends in medicinal plants in research to be held on 10-12 January 2012 in department of botany, University of Pune.
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- **Madhuri S.Kulkarni**, Paper presentation in International conference "Global challenges-The role of chemistry in giving their solutions, Bangkok 11 -15 June 2011.
- **Mohini Kute**, Presented paper in "Fourth international Symposium on Nuclear Analytical Chemistry (NAC-IV)" 15th-19th November, 2010 at Bhabha Atomic Research Centre, Mumbai, India
- **Mohini Kute**, Paper presentation in International conference "Global challenges-The role of chemistry in giving their solutions, Bangkok 11 -15 June 2011.

b) Give details for the national conferences attended

- **Mukula Kulkarni**
- Won First prize for the paper presentation in “3rd Asia Pacific Symposium on Radiation & Photochemistry and 10th Biennial Trombay Symposium on Radiation & Photochemistry” during 14-17, Sept, 2010.
- Paper presentation in “National Symposium on Radiation & Photochemistry” on March 2011 at Jodhapur during 10th to 12th march 2011.

Sushma Katade

- Presented paper in “29th Annual Conference of Indian Council of Chemists” on 19th-21st December, 2010 held at Department of Chemistry, Punjab University, Chandigarh.

Mohini Kute

- Paper presented in “29th Annual Conference of Indian Council of Chemists” on 19th-21st December, 2010 held at department of Chemistry, Punjab University, Chandigarh.
- Paper presentation in 30th Annual Conference of Indian Council of Chemists to be held on 28-30th December, 2011 held at department of Chemistry, Osmania University, Hyderabad.

Mrs. Ketaki Sarvate

- Paper presentation in 30th Annual Conference of Indian Council of Chemists to be held on 28-30th December, 2011 held at department of Chemistry, Osmania University, Hyderabad.

c) Give details for the workshops attended

Madhuri Kulkarni

- Paper presentation in ‘Innovation 2010, Regional Conference of Pune University’ at K.T. H. M. College, Nashik, during 20th and 21st November 2010.

Mr. Dnyaneshwar Thakar

- Participated in Three days National Level seminar on “Nanoscience & Technology: Frontiers in Science & Technology” during 7th to 9th Feb. 2011 at Baburaoji Gholap College, Sangvi, Pune-411027, sponsored by UGC.
- Participated in Two days State Level Seminar “Career Guidance for Students & Teachers” during 11th & 12th Feb 2011 Bhauraoji Gholap College, Sangvi, Pune-411027.

Harsh Gaikwad

- Paper Presentation in ‘ASMMM-2011 Advance in Systematic Methodologies & New Materials’ organized by department of Chemists’ Shivaji University, Kolhapur during 21-22 January 2011.

14) Details of conference publications in the following format

Title of the paper, name of the authors (**put faculty’s name in bold**), *name of the conference in italics*, place, year, date and month, starting-end page number.

Citation index; impact factor: (if any)

15) Give details for the text/reference books in the following format

Title of the book, name of the authors (**put faculty’s name in bold**), name of the publisher, year of publication. Edition

NA

16) Consultancy

NA

17) Any awards or recognition received by the faculty/students/department.

- Won First prize for the paper presentation in “3rd Asia Pacific Symposium on Radiation & Photochemistry and 10th Biennial Trombay Symposium on Radiation & Photochemistry” during 14-17, Sept, 2010.

18) Collaborations

Give details of the collaborative activities of the institution with the following organizations:

Sr. No.	Type International/national/ state/district	Name of the staff	Name of Institute/ Organisation	Year	Details of the work
	NA				

19) **Placement** details since 2005

a) year wise percentage

b) Companies approached

c) campus interviews conducted in the college

Since last two years the department has arranged campus interviews for the students. A good number of students were placed through this activity.

Deepak Nitrites Ltd., Innovasynth and Serum Institute- 2008

Lupin Pharmaceuticals, Deepak Nitrites Ltd., Innovasynth- 2009

GVK Biosciences, Hyderabad-2009(Campus held in Dept. of Chem., Pune Univ.)

Sr. No.	Name & address of the company	Date of interview	Number of students appeared	Number of students selected	Remarks (if any)

d) Interviews conducted outside the college

Sr. No.	Name & address of the company	Place of the interview	Date of interview	Number of students appeared	Number of students selected	Remarks (if any)

20) **Details of any other best practices in the department:**

3-D models making, exposure to chemistry related softwares, projects, remedial coaching, continuous check on progress of students through, discussions and seminars, use of Over Head Projector, LCD for teaching, good student-Teacher and Parent-Teacher interactions, counseling, study tours etc.