

DEPARTMENT OF CHEMISTRY

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Introduction

An Arts, Commerce & Science College was established in the year 1963. The Science faculty was started in the year 1992. The department of Chemistry was started with the establishment of science faculty in this college. Prof. Arun Falake was first appointed teacher and head of the department of Chemistry and Prof. Jagtap Madam was his subordinate. Prof. V.V. Hiwase continued as the HOD of the department from 1996. The chemistry department is well equipped with the instruments in modern chemistry laboratory. Presently, the department has two permanent professors and a laboratory technician. In 2002, the department started PG courses with the capacity of 22 students, first time in the Wardha district.

Departmental Profile



Name- Dr. V. V. Hiwase

Designation- Assit. Prof. and Head Of Department

Qualification- M.Sc. Ph.D

Date of appointment- 03- 10- 1996



Name- Dr. P. B. Thakare

Designation- Assit. Prof.

Qualification- M.Sc., B.Ed. NET., Ph.D

Date of appointment- 16-07-2010



Name- Mr. Kailas V. Dahat

Designation- Laboratory Attendant

Date of appointment- 03-10-2000

Facilities in the Department

The chemistry laboratory is well equipped with ample glasswares, sophisticated instruments, fire extinguisher and adequate chemicals with spacious area per students with a capacity of 40 students.



Departmental Library

The department has departmental library with near about 80 numbers of books, e-books and study materials. These books are available to the UG and PG students for their reference.



Bridge Course

The department has designed a bridge course for new comers at entry level to nurture the academic requirement for UG students in order to face the intellectual challenges during UG course. It bridges the gap between higher secondary education and the university curriculum. After successful completion of the course the department conducts the screening test to filter the slow learners. The slow learners are then nurtured time to time to accelerate their learning process. The bridge course is carried out at the beginning of the session every year.



Screening Test for bridge course

Mentor Scheme

The activity was started since 2014 in the department to boost the students and to overcome obstacles the students facing in teaching-learning process. The students in first year are new with the teacher and college environment most of them may have various problems like up-down from home village, financial problems, lack of confidence, communication problems or any other personal issues, due to which they hesitate to express themselves with teachers as a result these students remain out of focus and ultimately they cannot take enough curricular and co-curricular benefits.

Keeping in view, we decided to appoint one teacher guardian (Mentor) per at least 10 students from first year. So that, the students can express any issue regarding academics and with their mentor.

Departmental Activity

Self-Governing Day

The faculty of science has organized self governing day on the occasion of Teacher's day, the birth anniversary of Dr. Sarvapalli Radhakrishnan. The students of all science departments are participated in this activity and carryout the functions of students and teacher for that day. Some students (About 15) from chemistry department worked as a teacher and engaged the class. The professors of the

department examine the programme and select the best teachers among the students. The programme is concluded by small refreshment for the students.



1. Seminar Competition (Session 2018-19)

The department of Chemistry organized the seminar competition for the students of UG On



11/09/2018 Tuesday. The topic for the seminar was of student's interest from the syllabus of UG chemistry. Twenty students of UG chemistry department were participated in the seminar competition. The time duration given was 10 minutes for presentation and 5 minutes for interaction. Power point presentation for the seminar was must. Each student tried his best to present his topic. The seminars

were judged by the teachers of chemistry department.

2. Guest lecture (Session 2018-19)

The guest lecture on "Solid state Chemistry" was organized by the department of chemistry for UG and PG students on dated 24/01/2019 Thursday. **Prof. R. D. Utane** from S.G. M. M Hingna (Nagpur) was invited to deliver the lecture. This lecture proved helpful to the students to clear their basic ideas of solid state matter and to create their interest towards the basic approach



of solids like structure of crystal, unit cell and types of crystal structure. He also elaborated the X-ray diffraction techniques and focused on the ongoing research on the topic.



Conference/Seminar Attended & Papers Presented (2017-18 & 2018-19)

1. Dr. V. V. Hiwase :

A) "Synthesis characterization & ion exchange property of p-hydroxy benzaldehyde, thiourea and ethylene glycol", international conference ICMAM-2018, organized by kamla Nehru mahavidyalaya on 5-7 October 2018

2. Dr. P. B. Thakare:

A) P. B. Thakare, "To study the effect of soyawaste soil blends on the growth of glycine max" international conference ICMAM-2018, organized by kamla Nehru mahavidyalaya on 5-7 October 2018.

B) Attended and presented research paper in the national conference on "Indian Heritage In Chemistry (IHC-2018)" organized by Hislop College, Nagpur and IGNOU Regional Center, Nagpur held on 27th March 2018.

C) Attended and presented research paper in the international conference on "Energy and Environmental Challenges (CE2C-2019)" organized by VNIT, Nagpur and tifr held on 18 & 19th January-2019.

D) Attended two days national seminar on "Remote sensing applications in environment and agriculture" organized by DMIETR, Sawangi Meghe (WARDHA) held on 24 & 25th January 2018.

RESEARCH PUBLICATIONS (2017-18 & 2018-19):

1. Dr. V.V. Hiwase, " Synthesis and thermal analysis of amberlite XAD-2 functionalized with sulphanic acid" *World Journal of pharmacy and pharmaceutical sciences*, vol 6,issue 10,566-574, **2017**

2. Dr. P. B. Thakare, "To Study the effect of soyawaste-soil blends on the growth of *Glycine Max*" *Int. Journal of current engineering and scientific research (IJCESR)*, Vol 6, Issue-1,898-901,**2019**

LIST OF PUBLICATIONS (2010 to 2017):

IN INTERNATIONAL JOURNAL

1. V. V. Hiwase ..Arch. Appl. Sci. Res., 4(5), 2012, pp. 1932-1937.
2. V. V. Hiwase ..Arch. Appl. Sci. Res., 4(5), 2012, pp. 1991-1995.
3. V. V. Hiwase .. J. Chem. Pharm. Res., 4(5), 2012, pp. 2475-2482.
4. V. V. Hiwase .. J. Chem. Pharm. Res., 4(5), 2012, pp. 2468-2474.
5. V. V. 1734-1739.Hiwase .. J. Chem. Pharm. Res., 4(3), 2012, pp.
6. V. V. Hiwase .. J. Europ. J. Appl. Engg. Sci. Res., 1(2), 2012, pp. 57-60.
7. V. V. Hiwase .. Der Chemica Sinica, 3(4), 2012, pp. 794-799.
8. V. V. Hiwase ..Arch. Appl. Sci. Res., 4(3), 2012, pp. 1502-1510.
9. V. V. Hiwase .. Der Chemica Sinica, 3(4), 2012, pp. 800-807.
10. V. V. Hiwase .. Der Pharma Chemica, 4(3), 2012, pp. 1153-1159.
11. V. V. Hiwase ..Arch. Appl. Sci. Res., 4(2), 2012, pp. 1150-1154.
12. V. V. Hiwase ..E-J Chem., 9(4), 2012, pp. 1911-1918.
13. V. V. Hiwase ..Chem. Sci. Trans., 1(3), 2012, pp. 604-611.
14. V. V. Hiwase .. J. Chem. Pharm. Res., 4(2), 2012, pp. 1111-1116.
15. V. V. Hiwase .. Der Pharma Chemica, 4(1), 2012, pp. 557.
16. V. V. Hiwase .. J. Chem. Pharm. Res., 4(1), 2012, pp. 732.
17. V. V. Hiwase .. Der Pharma Chemica, 4(1), 2012, pp.460.
18. V. V. Hiwase ..J. Sci. Tech. Res., 6(2), 2014, pp. 11-18.
19. V. V. Hiwase ..E-J Chem., 7(1), 2010, pp. 287
20. V. V. Hiwase ..Oriental J. Chem.,25(1), 2009, pp. 233
21. V. V. Hiwase .. J. Chem. Pharm. Res., 8(7), 2016, pp. 158-163.
22. V. V. Hiwase .. Der Pharmacia Lettre, 5(2), 2013, pp. 105-112.
23. V. V. Hiwase ..Arch. Appl. Sci. Res., 5(2), 2013, pp. 89-97.
24. V. V. Hiwase ..Chem. Sci. Trans., 3(1), 2014, pp. 19-28.
25. V. V. Hiwase .. Der Chemica Sinica, 5(2), 2014, pp. 23-30.
26. V. V. Hiwase ..Arch. Appl. Sci. Res., 5(6), 2013, pp. 88-95.
27. V. V. Hiwase ..Int. J Res. Biosci. Agri. Tech., 1(2), 2014, pp. 1244-1256.
28. V. V. Hiwase ..Int. J Res. Biosci. Agri. Tech., 1(2), 2014, pp. 456-467.
29. V. V. Hiwase ..J. Sci. Tech. Res., 6(2), 2014, pp. 1-10.
30. V. V. Hiwase .. Der Pharma Chemica, 5(2), 2013, pp. 244-250.
31. V. V. Hiwase .. J. Chem. Pharm. Res., 5(2), 2013, pp. 18-23.
32. V. V. Hiwase .. J. Chem. Pharm. Res., 5(9), 2013, pp. 188-193.
33. P.B. Thakare..Der Pharma Chemica, 4(3),2012, pp.755-760
34. P.B. Thakare..Chem. Sci. Tras, 2(3),2012, pp.853-858
35. P.B. Thakare..World Applied Sciences Journal, 21(6),2013, pp 869-872.
36. P.B. Thakare..World Journal of pharmaceutical research, 2(6),2013, pp.2507-2516
37. P.B. Thakare.. IJARIE, 1(5),2015, pp. 872-878
38. P. M. Keche .. J. Chem. Pharm. Res., 8(7), 2016, pp. 158-163.
39. P. M. Keche.. Int. Journal of Researches in Bio,Agri, &tech., special issue (6),2015. pp-373-376.

IN NATIONAL JOURNAL

- 1) V. V. Hiwase ..Acta Ciencia Indica., XXXIIIC(4), 2007, pp. 615-622.

PUBLICATION IN CONFERENCES PROCEEDINGS

- 1) V. V. HIWASE, "Structural and Semiconding behavior of Terpoly ligand derived from m-Cresol Hexamine and Formaldehyde, NCATMSA, 6th March 2011, Arts, Commerce and Science college, Arvi, pp 112-117.
- 2) V. V. HIWASE, "Synthesis and Structural study of Amberlite XAD-4 functionalized with Hydroquinone", , NCATMSA, 6th March 2011, Arts, Commerce and Science college, Arvi, pp 222-226.
- 3) V. V. HIWASE, "Synthesis and Structural study of Terpolyligand derived from p-Nitrophenol Resorcinol formaldehyde", , NCATMSA, 6th March 2011, Arts, Commerce and Science college, Arvi, pp 215-221.
- 4) V. V. HIWASE, "Thrmokinetic parameter of newly synthesized and functionalized amberlite XAD-4 resin", , NCARTS, 2nd-3rd Jan 2015, G.H. Raisoni College of Engg. Nagpur, pp 01-06.
- 5) P. B. THAKARE, "Modern trends of modern nanotechnology in 21st century and application in environment and energy region" NCATMSA, 6th March 2011, Arts, Commerce and Science college, Arvi, pp. 101-107.
- 6) P. B. THAKARE, "to study the effect of soya waste blended three different soils on the growth of *Glycine max*" National conf. on RRIC, 14,15 Feb 2012, L. T. College, Wani, pp.