

DEPARTMENT OF CHEMISTRY

REPORT

It is with great pleasure I share with you the annual report of chemistry department for the session 2017-2018 of Shri R.L.T. College of Science, Akola. Department is contributing significantly in creating and disseminating knowledge in various areas through undergraduate, postgraduate and doctoral programmes and providing an education through practically focused, multidimensional, quality teaching-learning process in excellent academic environment. In our pursuit of excellence, we persistently seek and adopt innovative methods to improve the quality of education. The benchmarks we set for ourselves in the field of teaching and research propel us in our journey towards excellence. Faculty of the department comprises qualified and goal-oriented members and always at forefront to organize various academic activities to inculcate effective learning abilities and research skills, to extend the intellectual depth, to make students creative, innovative and self-reliant.

To expose the students in the frontier areas in chemistry and to enhance employability skill of them, department is always ahead in performing the various academic activities. The important academic activities and the programmes organized by the department of chemistry during the session 2017-18 are as mentioned below.

- **Inauguration of 'CRYSTAL Club'** - To Enhance the academic activity of student and to increase the participation of student in social activity, department of chemistry has decided to establish one student club and in view of this our department establishes '**CRYSTAL Club**' (*Chemical Research by Young Scientist & Technicians Aborting Lacking of Society*) which was inaugurated on 12th September 2017. **Principal Dr. V. D. Nanoty** was the president for this function and Dr. U.K. Bhalekar Head, Department of microbiology was the inaugurator for the function. Presence of head's of various departments had been added grace to this function. Ms. Tarnnum Kureshi was the student President of this club and students from M.Sc. II year and I year are the members of this club with some officiating body.
- **'Blank Paper Bank' : 'To Save the Paper, to Save the Environment'** with this motto Department of Chemistry's CRYSTAL Club developed a new Best practice of Blank Paper Bank and it was made open to all on 22nd December 2017 Hon'ble Vijaykumarji Toshniwal, Vice-President of The B.G.E. Society was the chief guest for this function . The concept behind this bank is to save the blank paper. Papers from the used practical record books are collected in a box and from that note books have been made.

Crystal Club not only stop this activity by preparing these note books but to developed a social awareness among the students these books made from blank papers were distributed to needy school childrens of the village Sonala, adapted by NSS Unit of our college.

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The important academic activities of department of chemistry during the session 2017-18 are as highlighted below.

- **Guest lecturers – ‘CRYSTAL Club’** organized the guest lectures of eminent personalities in the subject chemistry, **Prof. Dr. V.S. Jamode**, Former Pro-Vice Chancellor S.G.B. Amravati University, Amravati and **Prof. Dr. A.S. Wankhede** for M.Sc.-I and II year students.
- **Seminars and group discussions** - The seminars and group discussions of B.Sc.-II & III students were conducted in the months of September, October-2017 and February, March-2018 under the supervision of **Dr. Pradip P. Deohate**, **Mr. S.C.Zyate**, **Dr. Pravin R. Kawle** and **Dr. Kavita M. Heda**.
- **Atchem ... aptitude test in chemistry** - To create interest in chemistry, assess the conceptual understanding and to upgrade the subject knowledge, aptitude test in chemistry was conducted for B.Sc.-III year students on 22nd February 2018. Ms. Nita D. Mhaisne and Ms. Anju R. Dhande have achieved the 1st and 2nd position respectively. Total 243 students were participated in this test. Test was co-ordinated by **Dr. Pradip P. Deohate**.
- **Industrial visit / study tour** - As a part of curriculum enrichment activity and to inculcate scientific temper among the students the one day industrial visit / study tour to Adarsha Goseva Evam Anusandhan Prakalp, Mhaispur was arranged on 24th February 2018 under the supervision of **Dr. Pravin R. Kawle**. During the visit Mr. Ramakant Bhopale, Manager Adarsha Goseva Anusandhan gave brief information about the working of the plant and rehabilitation of indigenous breed cow and also explain the laboratory process of manufacturing ayurvedic medicinal products, cosmetics, ointments, syrup, soaps etc. Students of B.Sc.-II along with **Mr. Sankesh C. Zyate** and **Mr. Vinod D. Deotale** with 5 other teaching, non-teaching staff members were participated in this study tour.
- **Consultancy services** - Consultancy services like analysis of drinking water, irrigation water, determination of physico-chemical parameters and different types of estimations of samples of projects of school and college students are engaged.

The important achievements of the faculty members of department of chemistry during the session 2017-18 are as highlighted below.

- **Dr. Pradip P. Deohate** has received the "Award for Excellence in Research" in 3rd South Asian Education Awards-2018 at Hyderabad for his contribution in research. He has published 6 research papers in national and international journals. He has participated in 3 conferences, 1 workshop and presented 4 research papers. Under his guidance 2 students are doing the Ph.D. research work out of which 1 has submitted the Ph.D. thesis. He has guided 3 students for research project.
- **Dr. Poonam T. Agrawal** has published 3 research papers in international journal. She has

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participated in 4 conferences, 1 workshop and presented 4 research papers. She has guided 3 students for research project. She is working as the Advisory member of IQAC. She is working as the executive member of AUCTA. She has chaired the technical session of one International and one National conference each. She has worked as a resource person and jury member for various academic and scientific programmes.

- **Dr. Pravin R. Kawle** has published 2 research papers in national and international journals. He has participated in 3 conferences, 1 workshop and presented 3 research papers. He has guided 3 students for research project.
- **Dr. Kavita M. Heda** has published 2 research papers in national and international journals. She has participated in 4 conferences, 2 workshops and presented 4 research papers. She has guided 3 students for research project. She has worked as a jury member for various academic and scientific programmes.
- **Dr. Ashish G. Sarap** has published 1 research papers in international journal. He has participated in 2 conferences, 1 workshop and presented 2 research papers. He has guided 3 students for research project. He has delivered a guest lecture at Sangdudkar Mahavidyalaya, Daryapur. He is working as the co-officer for B.Sc. I year Home Examination.
- **Mr. Vinod D. Deotale** has published 1 research paper in international journal. He has participated in 2 conferences, 1 workshop and presented 2 research papers. He has delivered a talk on Late Dr. A.P.J Abdul Kalam on Wachan Prerana Din. He has guided 4 students for research project.
- **Mr. Sankesh C. Zyate** has published 1 research paper in international journal Presented 1 research paper in conference. He has started the NET/SET Coaching class for the M.Sc. Students of our department. He has guided 4 students for research project.
- **Ms. Ketki D. Bansod** has submitted the thesis for the award of Ph.D. degree under the guidance of **Dr. P.P. Deohate**. **Mr. Ankit N. Mishra** and **Ms. Kalpana A. Palaspagar** are working for Ph.D. degree in research laboratory of department of chemistry. They have also published research papers in national and international journals, attended the conferences and presented research papers.

Students are at the centre of all endeavors in department of Chemistry. During the session 2017-18, additions to the students' achievements are as follows.

- **Ms. Farin B. Maniyar** (M.Sc.) has been stood 3rd in merit list of M.Sc.-Chemistry examination of S.G.B. Amravati University, Amravati (S-2017).
- **Ms. Vrushali Wankhede** (M.Sc.) has been stood 8th in merit list of M.Sc.-Chemistry examination of S.G.B. Amravati University, Amravati (S-2017).
- **Ms. Priya V. Wankhede** (B.Sc.-III) has participated in district and university level research festival "Avishkar" and achieved the colour coat of S.G.B. Amravati University, Amravati and has been

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awarded second Prize. She has been Selected for State level Research Festival "Avishkar" 2017. Her Project title was 'Impact of idol immersion on water' and guided by **Dr. Pravin. R. Kawle**.

- **Ms. Varsha D. Yennewar** (M.Sc.-II) has participated in district and university level research festival "Avishkar" and achieved the colour coat of S.G.B. Amravati University, Amravati and has been awarded second Prize at PG level. She has been selected for state level research festival "Avishkar". Her Project title was 'Impact of preparation of herbal tablets for food preservation'. She has completed this project under the guidance of **Dr. Poonam T. Agrawal**.
- **Ms. Pratiksha V. Banole** and **Ms. Isha D. Bhagwatkar** (B.Sc.-I) have been participated in university level intercollegiate chemistry-quiz competition.
- **Ms. Megha Rajpal** (B.Sc.-II) has been achieved 1st prize in university level intercollegiate seminar competition organized by AUCTA.
- **Ms. Sayali G. Jagtap** (B.Sc.-III) has been achieved 1st prize in university level intercollegiate seminar competition organized by AUCTA.
- **Ms. Tarannum S. Kureshi** (M.Sc.-II) has participated in university level intercollegiate seminar competition organized by AUCTA.

Dr. Poonam T. Agrawal
Head, Department of Chemistry
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