



CHEM NEWS Issue 6

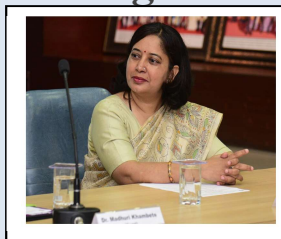


A Newsletter from the Department of
Chemistry, VNIT Nagpur, 2020, Issue 6

DOWN TO CHEMISTRY...

Published on 15th JANUARY, 2021

Message from HoD's Desk...



Welcome to the Department of Chemistry, VNIT Nagpur! We, the Department of Chemistry, feel our enthusiasm to publish the sixth issue of our departmental newsletter, "*CHEM NeWS*." I, as a head of the department would like to thank all the faculty members, non-teaching staffs and students for their limitless support and sincere efforts for the betterment and development of department. On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

Overview of the Department...

Department of Chemistry has started the journey from the inception of the institute, initially it has been serving to cater the need of engineering students of various branches. The Department started new program for undergraduate (B.Tech.) in Chemical Engineering in the year of 2006. Later on, the post-graduation program (M.Sc.) in Chemistry for two years duration was commenced in the year of 2012. More than sixty Ph.D. degrees have been awarded till 2019. At present thirty students are pursuing their research work to attain their doctoral degree. The highly motivated students, who understand the research dynamics and upgrade their skills, are strengthening the department's back bone. In their curriculum they are encouraged to take part in different projects to supplement theoretical knowledge with practical experiences. In order to interact with the outside world, the department has active collaboration with the academic as well as research organizations in India and abroad. The department is organizing Continuous Educational Events like STTP courses, Seminars, and conferences. The curriculum is taught by the distinguished faculty members with the combination of academic excellence and diverse research exposure in working different areas of science and technology with complete dedication and commitment. The research field includes Organic synthesis, Solid state chemistry, Crystal engineering and Nano-materials, Polymers and elastomeric composites, Inorganic Chemistry, Photo-catalysis and Bioinorganic Catalysis, Biophysical Spectroscopy and Photobiology, Chemical Thermodynamics, Resource Recovery and Environmental remediation, Bio-catalysis and Organic Chemo-Sensor, Electro-analytical Chemistry. The faculty members of the department have been awarded various national and international research fellowships. They have also authored many books and participated in national and international conference. The publication of their research works in various SCI index journals are the regular activities of the Department. Many R&D projects are being funded by different funding agencies viz. SERB, DST, MHRD, UGC, BRNS, CSIR, etc. Department has well-equipped laboratories with modern instrumental facilities and has been recognized by **DST-FIST** Sponsored Department since 2017!

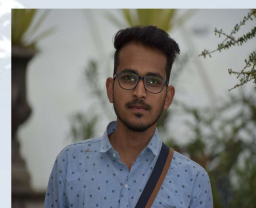
FACULTY MEMBERS

DR. ANUPAMA KUMAR (HoD)
DR. SURESH S. UMARE
DR. JAYANT D. EKHE
DR. SUJIT K. GHOSH
DR. RAMANI V. MOTGHARE
DR. CHAYAN DAS
DR. ATUL V. WANKHADE
DR. UMESH R. PRATAP
DR. SANGESH P. ZODAPE
DR. SUSANTA K. NAYAK
DR. S. LAXMI GAYATRI
DR. ABHISHEK BANERJEE
DR. SANDIPAN HALDER

Congratulations to the Achievers...

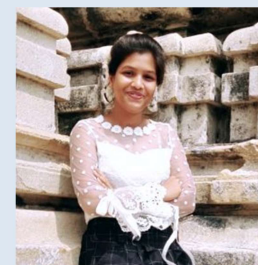
Following students have qualified National Eligibility Test (NET) 2020.

- Mr. Guruprakash M. P. (M.Sc., 2019-2021)
- Sunita Malla (M.Sc. 2018-2020)
- BhojKumar Nayak (M.Sc. 2018-2020)
- Changela Bhautikkumar Maganlal (M.Sc. 2018-2020)
- Tanu Priya Singh (M.Sc. 2018-2020)
- Prativa Behera



Following students have secured their positions as Ph.D. Scholar in prestigious nationalized institutes

- Shiva Singh, Ph.D. IIT Roorkee
- Laxmikanta Mallick: Ph.D. at IIT, Delhi
- Pragya: Ph.D. at IIT, Delhi
- Piyush Kumar: Ph.D. at IIT, Ropar.
- Bijesh Kumar Malla: Ph.D. at IIT, Madras
- Sumran Raikwar: Ph.D. at IIT, Madras
- Riya Gupta: Ph.D. at Kanpur



Highlighting the Chemistry Achievers...**The Nobel Prize in Chemistry 2020**

The Nobel Prize in Chemistry 2020 has been awarded to

- Emmanuelle Charpentier
Max Planck Unit for the Science of Pathogens, Berlin,
Germany
- Jennifer A. Doudna
University of California, Berkeley, USA.



“for the development of a method for genome editing”

Emmanuelle Charpentier and **Jennifer A. Doudna** have discovered an important tool of gene technology, named as the **CRISPR/Cas9** genetic scissors. Using this technology, researchers can change the DNA of animals, plants and microorganisms with extremely high precision. This technology

Since **Charpentier** and **Doudna** discovered the CRISPR/Cas9 genetic scissors in 2012 their use has exploded. This tool has contributed so many important discoveries in basic research, and plant researchers have been able to develop crops that withstand mould, pests and drought. In medicine, clinical trials of new cancer therapies are underway, and the dream of being able to cure inherited diseases is about to come true. These genetic scissors have taken the life sciences into a new epoch and, in many ways, are bringing the greatest benefit to humankind.

Editorial Board

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