



# *Curriculum Vitae*

## **Dr. Doyel Bhattacharya**

- 1. NAME:** Dr. Doyel Manoj Bhattacharya.
- 2.HOMEADDRESS:** A-22, Indra Uma Apartment, Corporation Colony, North Ambazari Road, Behind Old Wockhardt Hospital, Nagpur-440010.
- E-MAIL ID:** bhattacharjeedoyel761990@gmail.com
- PHONE NO.** 8600364105 / 9175490338
- 3. DATE OF BIRTH:** 7<sup>th</sup>June 1990
- 4. NATIONALITY:** Indian
- 5. LANGUAGES KNOWN:** English, Hindi, Marathi, Bengali

**6. EDUCATIONAL QUALIFICATION:**

<b>Degree</b>	<b>Year</b>	<b>University</b>	<b>% of Marks</b>
B.Sc. (Chem, Biochem, Zoo)	Summer-2011	RTM Nagpur University	70.29
M.Sc. (Analytical Chem)	Summer-2013	RTM Nagpur University	64.64
B.Ed.	Summer-2014	RTM Nagpur University	61.00
Ph.D.	Awarded Sep'18	VNIT, Nagpur.	

## **7. TEACHING EXPERIENCE:**

- Working as permanent faculty in Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur, since 2019.
- Worked as a Clock Hour Basis Lecturer in Lady Amritabai Daga College (LAD), Shankar Nagar since 2016 till 2019.
- Served as a Clock Hour Basis Lecturer in Laxminarayan Institute of Technology, Nagpur, 2016-2017, 2018-2019.
- Served as Visiting Faculty for Physical Chemistry in Hislop College, PG Department, Chemistry from 2016-2018.
- Teaching Assistantship in VNIT in B. Tech and M.Sc. (Chemistry) since 2014-2018.

## **8. GUEST LECTURES DELIVERED**

- **Delivered a Guest Lecture** on Scope of Chemistry towards Research at Shankarlal Agarwal Science College, Salekasa.
- **Delivered a Guest Lecture** on Errors and Analysis at Nabira Mahavidyalaya, Katol.
- **Delivered a Guest Lecture** on Chromatography at Nabira Mahavidyalaya, Katol.
- **Delivered a Guest Lecture** on Irreversible and Statistical Thermodynamics at Nabira Mahavidyalaya, Katol.
- **Delivered a Guest Lecture** on X-Ray Diffraction Techniques at Sardar Patel Mahavidyalaya, Chandrapur.
- **Delivered a Guest Lecture** on Irreversible and Statistical Thermodynamics at Seth Kesarimal Porwal college, Kamptee.
- **Delivered a Guest Lecture** on Green Chemistry: A Sustainable Approach Towards Development at Anand Niketan College, Anandwan, Warora.

## **9. STUDENT RELATED ACTIVITIES**

Evaluator for Science Based experiments “Masti se Mastiksh Tak”, Lockdown activity organized by Vijana Bharti Vigyan Prasara, Department of Science and Technology, Govt. of India and NCERT.

## **10. RESEARCH EXPERIENCE:**

### **List of Publications:**

1. Doyel M. Bhattacharya, Umesh R. Pratap, Atul V. Wankhade, Sangesh P. Zodape, *Volumetric and ultrasonic approach in the investigation of critical micellar phenomenon of amphiphilic drugs in aqueous solutions at different temperatures*, *J. Molecular Liquids*, 214 (2016) 117–127, Elsevier Journal, **IF 6.165; Citations 21** (as on date 19/04/2022).
2. Doyel M. Bhattacharya, Sudhakar S. Dhondge, Sangesh P. Zodape, *Solvation behaviour of an antihelmintic drug in aqueous solutions of sodium chloride and glucose at different temperatures*, *J. Chemical Thermodynamics*, 101 (2016) 207-220; Elsevier Journal, **IF 3.178; Citations 18** (as on date 19/04/2022).
3. Doyel M. Bhattacharya, Dinesh V. Kawadkar, Chandrashekhar P. Pandhurnekar, Atul V. Wankhade, Umesh R. Pratap, Sangesh P. Zodape, *Investigation of Volumetric and Acoustic Properties of Procainamide Hydrochloride in Aqueous Binary and (Water + Amino Acid) Ternary Mixtures at Different Temperatures*, *J. Chemical Engineering Data*, 62 (2017) 4083–4092, ACS Journal, **IF 2.694; Citations 5** (as on date 19/04/2022).
4. HN Chopde, CP Pandhurnekar, BG Yadao, DM Bhattacharya, *Synthesis, characterization and antibacterial activity of 1-([6-bromo-2-hydroxy-naphthalen-1-yl]arylphenyl)methyl)-3-chloro-4-(arylphenyl)-azetid-2-one*, *Journal of Heterocyclic Chemistry* 57 (9), 3499-3504, **IF 2.193; Citations 1** (as on date 19/04/2022).
5. S.R. Halder, D.M. Bhattacharya, *Ultrasonic investigation of some charge transfer complexes in solution and comparison of their stability constants at 298K*, *Hislopia Journal*, Peer reviewed Journal, ISSN No.0976-2124, 73-82.
6. Babita G. Yadao, Himani N. Chopde, Doyel M. Bhattacharya, Chandrashekhar P. Pandhurnekar, *A Brief Review on Thiazolidines and Azetidones: Synthesis and Biological Activities*, *Journal of Advanced Scientific Research (UGC Care)*, ICITNAS 25-36, ISSN

No. 0976-9595.

7. Himani N. Chopde, Chandrashekhar P. Pandhurnekar, Doyel M. Bhattacharya Arvind J. Mungole, Babita G. Yadao, *Progress In The Pathways For Synthesis Of Isoxazoles Synthons And Their Biological Activities*, Journal of Advanced Scientific Research (UGC Care), ICITNAS 44-50, ISSN No. 0976-9595.

8. Shubhajit Halder, Doyel Bhattacharya, *Hybrid Biogenic Adsorbents to Remove Heavy Metals from Waste Water: Can It Be a Sustainable Green Protocol to Minimize Environmental and Occupational Hazards?* Journal of Advanced Scientific Research (UGC Care), ICITNAS 292-298, ISSN No. 0976-9595.

9. Pooja Mohobe, Babita Yadao, Himani Pandhurnekar, Doyel Bhattacharya, Rakesh Naktode, *Synthesis and Antibacterial Screening of Metal  $\beta$ -diketonates*, International Journal of Scientific Research in Science and Technology (Peer Reviewed Journal) Volume 9, Issue 6, 384-390. Print ISSN: 2395-6011.

10. D Bhattacharya, S Halder, *The versatility of biosensors as potential diagnostic tools for environmental monitoring control*, AIP Conference Proceedings 2752 (1).

### **International and National Book Chapters Published:**

1. Role of technology in broadening the dimensions of education during COVID 19 crisis: Opportunities and Challenges, 94-101, Habit and Habitat for Pandemic Problems and disaster management. Dr S. Thowseaf & Er I. Yasar Shariff, Academic Province Publishers, ISBN No. **978-81-948555-0-7**.
2. Gender stereotypes: A threat to women empowerment, Chapter-8, 55-64, Unveiling the boundaries of Gender Issues, MKSES Publisher, (India), ISBN No. **978-93-91248-06-2**.
3. Challenges and Status of Women Empowerment from Vedic to Modern Era in India, Chapter-5, 30-36, Unveiling the boundaries of Gender Issues, MKSES Publisher, (India), ISBN No. **978-93-91248-06-2**.
4. A Reflection of Gender Based Disparity in the Real World of Cinema and Literature, Chapter-10, 71-76, Unveiling the boundaries of Gender Issues, MKSES Publisher, (India), ISBN No. **978-93-91248-06-2**.
5. Succession of Microarthropods in Decomposing Leaf Litter of Teak (*Tectona Grandis*) At Afforested Manganese Mine Site, Chapter 7, Fundamentals on Plant and Soil Microbial Interactions (Theory and Practice), 56-64, ISBN No. **978-93-91681-08-1**.

## Papers Presented in National and International Conferences:

1. 9<sup>th</sup> National Conference of “*Thermodynamics of Chemical, Biological, Environmental and Non-Conventional Energy Systems*” (TCBNES-2014) held at Vallabh Vidyanagar, Anand on 17-18<sup>th</sup> October 2014.
2. 10<sup>th</sup> National Conference on “*Thermodynamics of Pharmaceutical, Chemical and Biological Systems*” held at Punjab University, Chandigarh, Punjab on 21<sup>st</sup>-22<sup>nd</sup> November, 2015.
3. International Conference on “*Energy and Environmental Challenges*” CE<sub>2</sub>C held at Visvesvaraya National Institute of Technology, Nagpur, India on 18-19 January, 2019.
4. 11<sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (NCSCA-2019), Thermodynamic Approach in the Solvation Behavior of Antihistamine in Different Biological Media held at Seth Kesarimal Porwal College in association with ISCAS, JAMMU.
5. International Conference on Advances in Physical, Chemical and Mathematical Sciences, 13-16 Feb, 2020 held at Department of Physics, Chemistry and Mathematics, LIT, RTMNU, Nagpur.
6. International Interdisciplinary Virtual Conference On “DRUG DISEASE AND DEVELOPMENT” Jointly organized by Department of Chemistry and IQAC Mungasaji Maharaj Mahaviyalaya, Darwha on 9<sup>th</sup>, 10<sup>th</sup> December, 2020.
7. Virtual International Conference on Multifunctional Advanced Materials (VICMAM-2021) organized by Department of Chemistry, JVM's Degree College in collaboration with Association of Chemistry Teachers on 9<sup>th</sup> and 10<sup>th</sup> August, 2021.
8. 5<sup>th</sup> International Conference on Emerging Technologies: Micro to Nano (ETMN 2021) jointly organized by Manipal University Jaipur, India and Universite Du Quebec En Outaouais, Canada held on 8 - 9<sup>th</sup> October 2021.

9. International Conference on New Horizons and Trends in Chemical Sciences (ICNHTCS-2022) organized by Department of Chemistry, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in association with Indian Society of Analytical Scientists held on 25th-26th March 2022.

10. Second International Virtual Conference on Current Scenario in Chemical Sciences (CSCS – 2022) organized by School of Chemical Sciences, Moolji Jaitha College (Autonomous), Jalgaon (MS), India on 16th and 17th September 2022.

### **Workshops and Seminars Attended:**

1. National Seminar on “*Intellectual Property Rights and Importance of Patents to Boost Research*” held at L. A. D and Smt. R. P. College for Women, Nagpur on 10<sup>th</sup> January, 2017.

2. National Seminar on “*Modern Methods in Organic Synthesis (MMOS)*” held at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 20-21 March, 2017.

3. Workshop on “*Fundamental Chemistry and its use in Advanced Research*” held at Hislop College, Nagpur on 29<sup>th</sup> July, 2017.

4. Workshop on “*Spectral Data Analysis & Spectral Interpretation for Structure Elucidation (SDSISE)*” held at Visvesvaraya National Institute of Technology, Nagpur on 21<sup>st</sup> -25<sup>th</sup> November, 2017.

5. National Conference on “*Indian Heritage in Chemistry*” held at Hislop College, Nagpur on 27<sup>th</sup> March, 2018.

6. National Aqua Conference on “*Water Conservation: Role of Educators*” held at L. A. D and Smt. R. P. College for Women, Nagpur on 18<sup>th</sup> December, 2018.

## **10. Membership in Professional Bodies:**

- Life Member of The Association of Chemistry Teachers with effect from 08/03/2018.
- Life Member of Indian Society of Analytical Scientists (ISAS) with effect from 08/03/2018.

## **11. Recipient of Awards:**

- ICNHTCS 2022 Award of Appreciation for the outstanding contribution by the Indian Society of Analytical Scientists Headquarters, BARC, Mumbai during an International Conference on New Horizons and Trends in Chemical Sciences (ICNHTCS-2022) organized by Department of Chemistry, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in association with Indian Society of Analytical Scientists held on 25th-26th March 2022.
- Award of appreciation as an Evaluator for Science Based experiments “Masti se Mastiksh Tak” a lockdown activity organized by Vijana Bharti Vigyan Prasara, Department of Science and Technology, Govt. of India and NCERT, Ministry of Human Resource Development, Govt. of India, held online from 7<sup>th</sup> May, 2020 to 17<sup>th</sup> May, 2020.

## **12. ICT Teaching –Learning Experience:**

1. Use of ‘Moodle Cloud’, e-delivery module in teaching learning.
2. Use of NPTEL Video in the classroom to expose the students in sophisticated and upgraded module of teaching and learning.
3. E-content (E-Books/courses under E-PG – Pathshala/animated courses etc)-
  - a. Solid State/Physical Chemistry Pdf uploaded in E-Shiksha Portal of RTMNU Website, Link: <https://rtmnu-eshiksha.in/content/document/pU35q6y52C.pdf>
  - b. Coordination Compounds/Inorganic Chemistry Pdf uploaded in E-Shiksha Portal of RTMNU Website, Link: <https://rtmnueshiksha.in/content/document/R1oSJ2GOUo.pdf>

- c. Errors in Chemical Analysis/Analytical Chemistry Pdf uploaded in E-Shiksha Portal of RTMNU Website, Link:  
<https://rtmnueshiksha.in/content/document/2oIK60ewuK.pdf>
- d. Molecular Orbital Theory/Inorganic Chemistry/ Pdf uploaded in E-Shiksha Portal of RTMNU Website, Link:  
<https://rtmnueshiksha.in/content/document/5Yer347H72.pdf>
- e. Non-Aqueous Solvents / Inorganic Chemistry Pdf uploaded in E-Shiksha Portal of RTMNU Website,  
Link: <https://rtmnueshiksha.in/content/document/6I546XH8I2.pdf>

### **13. Miscellaneous:**

1. Quiz Coordinator of Chemistry Online Quiz actively involving students to the enhance the connectivity with the subject.
2. Joint Organizing Secretary, **International Conference on New Horizons and Trends In Chemical Sciences (ICNHTCS-2022) organized by** Department of Chemistry, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in association with Indian Society of Analytical Scientists, 25<sup>th</sup>-26<sup>th</sup> March 2022.
3. Organizing Committee Member of 2-day workshop on “**Careers with Chemistry**” for UG and PG final Year students, Treasurer and Conduction of Inauguration Ceremony on 27<sup>th</sup> and 28<sup>th</sup> March, 2023.
4. Paper Setter of Chemistry Paper No. VIII (Analytical Chemistry) for M.Sc. Chemistry, Semester 2 for Shiksha Mandal’s Bajaj College of Science, Wardha. Setting and framing of question paper as per the syllabus.
5. Paper Valuer at the RTMNU for subjects Physical Chemistry (Paper III) and Analytical Chemistry (Paper IV) for PG Chemistry.
6. Paper Valuer at the RTMNU for subjects Physical Chemistry and Inorganic Chemistry for UG Chemistry.
7. Successfully Completed 2 NPTEL Courses in Gold And Elite Zones.
8. Currently Serving as The Training and Placement Officer of DRB Sindhu Mahavidyalaya.



