

**DR. KETKEE P. DHARKAR****DESIGNATION:** ASSISTANT PROFESSOR,  
DEPARTMENT OF CHEMISTRY**ACADEMIC QUALIFICATION:** M.SC. PH.D**WORK EXPERIENCE:** 8 YEARS**Research Contribution****Research papers published in Journals:**

- “Synthesis and characterization of p-hydroxyacetophenone (P) and aniline (A) with formaldehyde (F) terpolymeric ligand”, Vidrabha Journal of Science, Amravati, 4, NO.3-4, pp 85-90, 2009.
- “Electrical Conductivity Properties of Newly Synthesized Melamine - Aniline - Formaldehyde Terpolymer and its Polychelates”, International journal E- Journal of Chemistry, Vol 8(1), pp 127-130, 2011.
- “Synthesis, characterization and thermal decomposition of p-hydroxyacetophenone-aniline-formaldehyde terpolymeric ligand”, International journal Asian Journal of Chemistry, Vol. 23, No. 9, 3945-3948. 2011.
- “Thermal degradation analysis of melamine-aniline-formaldehyde terpolymeric ligand. International journal, Research journal of chemical sciences, vol. 2(12) 11-16, 2012.
- “Study of Conductivity Behaviour of Newly Synthesized Terpolymeric Ligand and its Polychelates with Mn(II),Fe(III),Co(II) Metal Ions”, International Journal of Researches in Biosciences Agriculture and Technology, Vol 1(2), 592-597, 2014.

**Research papers published in Proceedings of National Conferences:**

- “Thermal degradation analysis of melamine-aniline-formaldehyde terpolymeric ligand and its polychelates”, Proceeding of NCRAMS, pp 50-55, 2010.
- “Electrical conductivity properties of terpolymeric resin derived from p-toluenesulfonic acid-m-cresol-formaldehyde, Proceeding of NCRAMS, pp 137-141, 2010.

**Research papers published in Proceedings of International Conferences:**

- "Study of Swelling Properties of Bio-plastics Produced from Kitchen Waste", Proceeding of international Conference on Chemical and Biochemical Engineering (ICCBE) held in Kuala Lumpur, Malaysia, pp 17-20, 2019.

### **Research Papers in Presented in National Conferences:**

- “Thermal degradation studies of newly synthesized melamine-aniline-formaldehyde terpolymer and its polychelates”, National Conference for Chemistry and Health, held at Govt. IOS Nagpur, 2010.
- “Electrical conductivity properties of terpolymeric resin derived from sulphanilic acid-melamine-formaldehyde”, NCCH, Nagpur, 2010.
- “Electrical Conductivity of newly synthesized Terpolymer and its polychelates” UGC sponsored National conference on ‘New horizon in Chemistry’ organised by Thakur college of science, Mumbai. Oct 2012.

### **Research Papers in Presented in International Conferences:**

- “Electrical Conductivity of newly synthesized Terpolymeric Ligand p-hydroxyacetophenone - aniline - formaldehyde and its Polychelates with Mn(II), Fe(III), Co(II) Metal Ions”, International Conference on “Chemistry for Mankind”, 2011.
- "Analysis Of Water Absorption Properties And Bio-Degradable Behaviour Of Bio-Plastics Produced From Fruit Peel Waste", International Conference On Biopolymers And Bio-Plastics", organized by EuroSciCon , Singapore , 2019.
- "Synthesis of Biodegradable Plastic from Temple Waste Produced in India and study their swelling kinetics " International Conference on advanced Physical,Chemical and Mathematical sciences, ICAPCM -2020, organized by R.T.M.N.U and L.I.T Nagpur, 2020.
- “Synthesis of Biopolymers From Fruit Shell Waste And Study Their Water Absorptivity And Swelling Kinetics” International Interdisciplinary Conference On Tourism, Biodiversity And Development organized by Janta Mahavidyalaya, Chandrapur, 2023.

### **Contribution at university level**

- Worked as Committee member for designing new credit based syllabus for PG diploma and first year BSc forensic science, Mumbai.
- Worked as Paper Setter, Examiner for B.Sc. and M.Sc. Examination of Mumbai University, Mumbai for the subject Forensic Chemistry.
- Worked as Paper Setter, Examiner for B.Sc. RTMNU, Nagpur for the subject Forensic Chemistry.
- Worked as paper valuer for BSc Chemistry odd semester 23-24, college/ RTMNU university exam.

- Worked as Examiner and paper valuer for BSc I year Chemistry college level, all internal Assessment exams 23-24.
- Worked as Internal examiner for BSc- III year Chemistry Semester-VI, R.T.M.N.U Summer Practical Exam-24
- Worked as Internal examiner for BSc -I year Chemistry Semester- I winter- 2023 backlog practical college level exam.

### **College committee Convenorship and Membership**

- Worked as committee member in Placement Employment cell, at Government IFS, Mumbai.
- Worked as organizing committee member of Workshop on “Fundamentals and Operations of Advanced Instruments” at Govt. IFS, Mumbai.
- Worked as Member of technical committee for purchase of instruments, chemicals and glassware and purchase committees at Govt. IFS, Nagpur.
- Worked as Convener at Govt. IFS Mumbai for Visit to Food and Drug Administration Lab, Mumbai.
- Worked as Convener at Govt. IFS Mumbai for Visit to Govt. Forensic Lab, Mumbai.
- Worked as Convener for Food and Drug Administration Lab Visit, Nagpur.
- Worked as committee member in Research, Conference and Workshop Committee, Exam Committee, Anti Ragging and Discipline Committee, NSS committee at Govt. IFS Nagpur
- Worked as committee member in A.Q.A.R Criteria -5.
- Worked as organizing committee member in Chemical Society Activities: Science day program, Chem - Draw workshop, Floor Cleaner workshop, Scintilla magazine etc.
- Worked as committee member in S.Q.A.C committee.
- Worked as committee member -Fund raising, memento sapling distribution, Venue arrangement National level conference ‘Green Earth- Clean Earth’ organised by L.A.D College, Nagpur.
- Worked as committee member for Makeover competition, Aura- college Gathering.
- Worked as committee member in discipline committee, Annual Prize Distribution.
- Student Mentorship program- Mentor for BSc III year Batch-S6

**Achievements:**

- RTMNU University 3<sup>rd</sup> Topper and Govt. Institute of Science, College Topper in MSc Chemistry.
- Recipient of DAKSHINA fellowship for Research excellence from Govt. of Maharashtra for research work.
- Received 1<sup>ST</sup> prize, Best poster presentation Award at International interdisciplinary Conference on Tourism, biodiversity conservation and development held at Chandrapur.

**Administrative responsibilities:**

- Worked as Head, Department of Forensic Chemistry at Government IFS, Mumbai and Government IFS, Nagpur.

**Workshop/ programs Attended:**

- State Level Workshop on “Advanced Analytical Instrumentation” at Science College, Nagpur, 2007.
- Workshop on “Fundamentals and Operations of Advanced Instruments”, at Institute of Forensic Science, Mumbai, 2013.
- One week Faculty induction program conducted by L.A.D.& Smt. R.P.College for Women ,Nagpur, 2023
- One week Faculty development program conducted by L.A.D.& Smt. R.P.College for Women ,Nagpur, 2023
- One week National workshop on “Intellectual Property Right-Patent and Industrial Design” 2 -credit course held from 18-22 March 2024 organized by R.T.M.N.U Nagpur.

**Swayam Courses completed:**

- “NEP-2020, professional development programme” Two credit course by Swayam (I.G.N.O.U) held from 1-31 December 2023, and obtained **97% marks.**