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|                               |                     |
|-------------------------------|---------------------|
| <b>Designation</b>            | Associate Professor |
| <b>Name of the department</b> | Chemistry           |
| <b>Qualification</b>          | M.Sc. Ph.D., SET    |

| Year | Research Paper International Journal | Research Paper National Journal | Book Publish/Chapter | Patent Publish/IPR | Resource Person | Conferences/Seminars/Workshop organized / attended |
|------|--------------------------------------|---------------------------------|----------------------|--------------------|-----------------|--|
| 2012 | 02                                   |                                 |                      |                    |                 |  |
| 2016 |                                      | 01                              |                      |                    |                 | 01   |
| 2017 | 03                                   | 01                              |                      |                    |                 | 01   |
| 2018 | 03                                   |                                 |                      |                    |                 | 01   |
| 2019 | 04                                   |                                 |                      |                    |                 |  |
| 2020 | 01                                   |                                 |                      |                    |                 | 01   |
| 2022 | 02                                   |                                 |                      |                    |                 | 01   |

|  |           |
|--|-----------|
| Orientation / Refresher / Short Term course / Faculty Development Programme (FDP): | <b>07</b> |
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**Administrative Experience: -**

**Representation on Academic / Administrative bodies / Member of organizational bodies. -**

**Teaching Experience: 16 years**

**Awards / Recognitions: -**

**Research Guidance for M.Phil./Ph.D./Project: -**

**Reviewer of Journals: -**

**A research paper published / presented**

1. Pawar R R, **Aher C S**, Pagar J D, Nikam S L, Hasan M, "Solubility, density and solution thermodynamics of NaI in different pure solvents and binary mixtures", J Chem Eng Data, 57 (2012), 3563-3572.
2. Kulkarni S C, **Aher C S**, Borse R Y, Bharate B G, Al-Deyab S S, Ansari S G, Khanna P K, "Gas sensing properties of nanocrystalline indium oxide synthesized by sol-gel method", Advanced Science Letters, 5 (2012) 109-113.
3. Pawar R R, Aher C S, "Molecular interactions in binary solvent mixtures and Catechol in pure, binary solvent mixtures at 293.15 to 313.15 K with DFT study", International Journal of Scientific Research in Science, Engineering and Technology, 3(6), (2017), 432-447. (ISSN: O: 2394-4099 and ISSN: P: 2395-1990)
4. Pawar R R, Aher C S, "DFT study, molecular interactions of Hydroquinone in water, methanol and binary solvent mixtures of water+methanol at different temperatures", International Journal of Current Advance Research, 6(11), (2017), 7693-7698.

(ISSN: O: 2319-6475 and ISSN: P: 2319-6505)

5. Pawar R R, Aher C S, "Solubility of phenolic compounds in pure water and alcohols with FTIR and DFT study", International Journal of Scientific Research in Science, Engineering and Technology, 3(8), (2017), 778-790. (ISSN: O: 2394-4099 and ISSN: P: 2395-1990)
6. Aher C S, "Excess molar volume of aqueous 1-propanol and apparent molar volume of 2-Naphthol in water, 1-propanol and their binary mixtures at various temperatures with DFT study", Journal of Applicable Chemistry, 7 (1), (2018), 151-164. (ISSN: 2278-1862)
7. Pawar R R, Aher C S, "Molecular interactions of 2-Naphthol in binary solvent mixtures of water+methanol and water+ethanol with DFT study", International Journal of Chemical and Physical Sciences, 7 (1) (Jan-Feb 2018), 78-88. (ISSN: 2319-6602).
8. Pawar R R, Aher C S, "DFT Study, Volume Changes with Molecular Interactions of Hydroquinone in Water, Alcohol and Binary Solvent Mixtures of Aqueous Alcohol at Different Temperatures", International Journal of Chemical and Physical Sciences, 7, Special Issue, ICAFM(Part-II) (March-2018), 726-745. (ISSN: 2319-6602).
9. C. S. Aher, "Solubility, Density and Thermodynamic Functions of Catechol in Pure Water, Ethanol and Their Binary Solvent Mixtures at Various Temperatures", International Journal of Research and Analytical Reviews (IJRAR), May 2019, Volume 6, Issue 2, 640-647. (E-ISSN: 2348-1269, P- ISSN: 2349-5138)
10. C. S. Aher, "DFT Study of Catechol Molecule and Catechol With Different Solvent Systems", Journal of Emerging Technologies and Innovative Research (JETIR), May 2019, Volume 6, Issue 5, 237-248. (ISSN: 2349-5162)
11. Aher C S, "Thermodynamic functions, solubility and density of catechol in pure water, methanol and their binary solvent mixtures at 293.15 to 313.15 K temperatures", Journal of Applicable Chemistry, 8(4), (2019), 1790-1797. (ISSN: 2278-1862)
12. Aher C S, "Solubility, density and thermodynamic functions of catechol in pure water, 1-propanol and their binary solvent mixtures at 293.15 to 313.15 K temperatures", Journal of Biological and Chemical Research, 36(1), (2019), 105-113. (E-ISSN: 2319-3077, P- ISSN: 0970-4973)
13. Aher C S, "Thermodynamic functions, solubility and density of Hydroquinone in pure water, methanol and their binary solvent mixtures at various temperatures with FTIR", Journal of Advanced scientific Research, 11(4), (2020), Suppl. 8, 226-234. (ISSN: 0976-9595)
14. Aher C S, "Hydroquinone Solubility in Pure and Binary Solvent Mixture at Various Temperatures with FTIR" Research J. Pharm. and Tech. 15(1): January 2022, 40-46.
15. Aher C. S. "DFT Study of interaction between 2-naphthol with water, methanol and their binary solvent system" Asian Journal of Organic & Medicinal Chemistry, Vol. 7. Issue 2, (2022) 142-156

**Books published / chapter in a book: -**

**Orientation / Refresher / Short Term course / Faculty Development Programme (FDP):**

| Sr. No. | Course      | Title                         | Organizer   | Duration    | Dates                          |
|---------|-------------|-------------------------------|---|-------------|--------------------------------|
| 1       | Orientation | Orientation                   | ASC, Aurangabad                                       | One Month   | 01/08/2012<br>To<br>31/08/2012 |
| 2       | Refresher   | Course                        | ASC, Pune   | Three weeks | 01/03/2013<br>To<br>21/03/2013 |
| 3       | Refresher   | Refresher Course              | K.T.H.M. College, Nashik.                             | One week    | 05/08/2013<br>To<br>10/08/2013 |
| 4       | FDP         | Faculty Development Programme | Z.B.Patil arts, com. and sci. college, Deopur, Dhule. | Two week    | 10/11/2014<br>To<br>30/11/2014 |
| 5       | Refresher   | Refresher Course              | SPPU and K.T.H.M. College, Nashik.                    | One week    | 08/10/2018<br>To               |

|   |                   |                               |  |             |  |
|---|-------------------|-------------------------------|--|-------------|--|
|   |                   |                               |  |             | 14/10/2018   |
| 6 | Short Term Course | Short Term Course             | Online mode conducted by Teaching Learning Centre, Ramanujan College, University of Delhi.           | Two week    | 20/04/2020 To 06/05/2020   |
| 7 | FDP               | Faculty Development Programme | Swayam Arpit online course, conducted by sri Guru Tegh Bahadur Khalasa College, University of Delhi. | Three month | Enrolled Date: 08/11/2019<br>Exam Date: 16/02/2020<br>Date of certificate Issue:30/06/2020 |

**Conferences/Seminars/ Workshop organized / attended**

| Sr. No. | Level         | Title of the conference  | Organizer   | Year |
|---------|---------------|--|---|------|
| 1       | International | International conference on pure and applied sciences (ICPAS 2016)                         | M.S.G. College, Malegaon Camp, Malegaon, Nashik, India.   | 2016 |
| 2       | State         | State level seminar on role of environmental chemistry in our life                         | S.P.H. Mahila Mahavidyalaya, Malegaon Camp, Malegaon, Nashik.   | 2017 |
| 3       | International | International conference on innovative in nonmaterials and their applications (ICINA 2018) | L.V.H. College, Panchavati, Nashik, India.  | 2018 |
| 4       | National      | Multidisciplinary Research & Innovation in Science & Technology - 2020 (NC - MRIST-2020)   | PG and Research Department of Chemistry,SPDM Arts, SBB & SHD Commerce & SMA Science college, Shirpur, Dist .Dhule (MS) India. | 2020 |
| 5       | International | Current Research in Chemistry and Nanosciences (CRCNS-2022)                                | L.V.H. College, Panchavati, Nashik, India.  | 2022 |

Experience as Resource Person for: -

E-content developed link: Youtube Channel  
<https://youtube.com/@chandrakant.chemistry>  
Google classroom  
<https://classroom.google.com/c/NDA2MzQ1NTU4NDk3?cjc=pu2flan>

**\*UGC Minor Research Project**

| Title of the Project  | Funding Agency | Grant sanctioned | Duration                       | Project Status | Project Type |
|---|----------------|------------------|--------------------------------|----------------|--------------|
| Thermodynamic properties and solubility study of catechol in pure water, methanol, ethanol and their mixtures at 20° to 40° C | UGC            | 1,20,000         | 22/03/2017<br>To<br>26/12/2019 | Completed      | Research     |