

Curriculum Vitae

1 Name : Dr Rakesh Kumar Tak

2 Designation : Associate Professor

3 Department : Chemistry

4 Educational Qualification:



| <i>Level</i> | <i>Name of University</i> | <i>Year</i> | <i>Title/ Remark/ Medal</i> |
|----------------|---------------------------|-------------|-----------------------------|
| <i>P.G.</i> | MDS University, Ajmer | 1987 | |
| <i>M.Phil.</i> | | | |
| <i>Ph.D.</i> | MDS University, Ajmer | 1991 | |
| <i>Other</i> | | | |

5 Teaching / Research Experience:

| | | | | | |
|-----------|-----------|-----------|-----------|-----------------|-----------|
| <i>UG</i> | 23 | <i>PG</i> | 23 | <i>Research</i> | 18 |
|-----------|-----------|-----------|-----------|-----------------|-----------|

6 Membership (Academic Bodies)

I.

7 Academic Courses Attended:

| <i>Course</i> | <i>Place</i> | <i>Sponsoring Agency</i> | <i>Duration</i> |
|---|-----------------------|--------------------------|-----------------|
| <i>Orientation Course</i> | MDS University, Ajmer | UGC | 28 Days |
| <i>Refresher</i> | MDS University, Ajmer | UGC | 21 Days |
| <i>Refresher</i> | MDS University, Ajmer | UGC | 21 Days |
| <i>Refresher</i> | MDS University, Ajmer | UGC | 21 Days |
| <i>Other (Workshop/ Summer School/ Camp etc.)</i> | | | |

8 Seminar/ Conference attended

| <i>Name of Seminar/ Conference</i> | <i>Internat./ National/ Regional</i> | <i>Attended/ Paper Presented</i> | <i>Title of Paper</i> | <i>Date</i> |
|---|--------------------------------------|----------------------------------|-----------------------|------------------|
| National Conference on Management and Accountability in Higher Education. | National | Attend | | 08-09 Jan. 2011. |
| National Conference on Urban Growth: Environmental Challenges And Responsibilities With Special Reference To Rajasthan. | National | Attend | | 26-28 Oct.2015 |
| | | | | |

9 Research Publications

| <i>Title of Paper</i> | <i>Name of Journal with Impact factor &ISSN No.</i> | <i>Volume and No. with Year</i> | <i>Citation Index</i> |
|--|---|---------------------------------|-----------------------|
| Spectrophotometric Determination of Palladium (ii) after Separation by Adsorption of its n-Phthylaminothioformyl-n tolylhydroxylamine Complex on Microcrystalline Naphthalene. | Oriental J. Chem. | 04 1988 286-289 | |
| Electrometric Study on Rare Earth Metal Chelates Interaction of Rare Earth Ions With N-Thioacetyl-N-O-Tolyhydroxylamine | Oriental J. Chem. | 06 1990 48-51 | |
| Corrosion Inhibition of Aluminium in Acid Media by CitrullusColocynthis Extract | E-Journal of Chemistry | | |
| Inhibition of Corrosion of Mild Steel in Acid Media by Naturally Occurring CitrullusColocynthis Plant | International Journal of Applied chemistry | 03 2010 347-355 | |
| Inhibition of Corrosion of Aluminium and Mild Steel in Acid Media by Naturally Occurring Citrullus Plant | Oriental J. Chem. | 26 2010 | |
| Inhibition of the Corrosion of Mild Steel in Acid Media by Naturally Occurring Acacia Senegal | E-Journal of Chemistry | 07 (4) 2010 1220-29 | |
| Corrosion Inhibition of Mild Steel by Alcoholic Extract of ArtocarpusHeterophyllus in Acidic Media | International Journal of Applied chemistry | 06 2010 297-308 | |
| Corrosion Inhibition of Aluminium in Acid Media by Naturally Occurring Plant ArtocarpusHeterophyllus and Acacia Senegal | J. Ind. Council Chem. | 26 2009 82-84 | |
| Corrosion Inhibition Efficacy of Acacia Senegal | International Journal of Pure & Applied chemistry | 2010 01-05 | |
| Effect of Alcoholic Extracts of <i>Tribulus terrestris</i> on the Corrosion Inhibition of mild steel in H ₂ SO ₄ Solution | <i>Elixir Corrosion & Dye</i> ISSN: 2229 – 712X | Vol. 101, 2017 | |
| An Eco-Friendly Corrosion Inhibitor for Mild Steel in H ₂ SO ₄ Medium | <i>Asian Journal of Chemistry</i> ISSN: 0970-7077 | Vol. 29, No.(8) 2017 | |
| Corrosion Inhibition of Mild Steel in 0.5N H ₂ SO ₄ Solution by <i>Tribulus terrestris</i> (fruit) Extract | <i>Journal of Surface Science and Technology</i> ISSN: 0976-9420 | Vol. 33(1-2) 2017 | |
| Thermodynamic Study of Mild Steel Corrosion Inhibition in Sulphuric Acid Medium by <i>Tribulusterrestris</i> Fruit Extract | <i>JCBPS</i> ISSN: 2249 –1929 | Vol. 7, No. 4, 2017 | |
| The biosorption of heavy metalsplants- | IJAC , ISSN : 0976-7355 | Jan-June 2017 vol.8 no 1- | |
| Study of low cost absorbent.....waste water | IJAC ISSN : 0976-7355 | Jan-June 2017 vol.8 no 1- | |

| | | | |
|--|--|----------------------------|--|
| Biosorption of Mn.....lantana camara | 103E- ISSN: 2278-3229 | June-Aug Vol. 6 No 3 | |
| Status of Trace Elements in Human Population of Ajmer (A mini review based on case studies) | 978-93-5265-436-9 | 2016 | |
| A Review on Role of Selected Trace Elements in Human Health and Disease | Journal Of Applied Chemistry, 0976-7355 | Vol. 8 and 2,2017 | |
| Importance of Studies on Trace Element Composition in Human Tissue and Organs With Special Reference to Population of Ajmer Region | National Journal of Multidisciplinary Research and Development , 2455-9040 | Vol. 2, Issue 3, Sep.2017; | |
| Bio-monitoring in Humans for Determination of Elemental Load on Body (A mini review of research work done in Rajasthan State) | Pharma Innovation General, 2349-8242 | Vol. 7, 379-380; 2018 | |

10 Research Projects

| <i>Title of the Project</i> | <i>Year</i> | <i>Name of funding agency</i> | <i>Fund available/ utilized</i> | <i>Present status</i> |
|--|-------------|-------------------------------|---------------------------------|-----------------------|
| Studies on Corrosion in inhibition efficiency of natural plant product Acacia Senegal, Artocarpusheterophyllus, Citrulluscolocynthis& some other plant as potentialcorrosion inhibitor | 12-13 | UGC | 190000/- | Submitted |

11 Research Supervision

- **Basic Field of specialization:** Corrosion, Analytic aspects of Nitrogen containing compound specially Benzomidine

❖ Ph.D.

| <i>Name of Student</i> | <i>Title of thesis</i> | <i>Present status</i> | <i>Date and Year of Award, if so</i> |
|------------------------|--|-----------------------|--------------------------------------|
| VipinKumpawat | Study of Chemical Constituents of ArtocarpusHeterophyllus as Potential Corrosion Inhibitor | Awarded | 2012 |
| RajkiranChauhan | Study of Chemical Constituents of CitrullusColocynthis as Potential Corrosion Inhibitor | Awarded | 2012 |
| UrvijaGarg | A Study of Chemical Constituents of Acacia Senegal as Potential Corrosion Inhibitor | Awarded | 2013 |
| Sonia Chahar | | Awarded | 2015 |
| NishaVaishnav | Studies on Corrosion Inhibitor Efficacy of Plant CordiaMyxa | Awarded | 2015 |
| Suchitra Chaudhary | A Study of Aerial Parts of <i>Tribulus terrestris</i> as Potential Corrosion Inhibitor | Pursuing | |

| | | | |
|----------------|--|----------|--|
| Navneet Jain | A Study of Chemical Constituents Of Calotropis Procera as Potential Corrosion Inhibitor in Different Media | Prsuiung | |
| Dipti Rangnani | | Prsuiung | |
| Kavita Kumari | | Prsuiung | |
| Meena Dochania | | Prsuiung | |

❖ **M.Phil.**

| <i>Name of Student</i> | <i>Title of Dissertation</i> | <i>Present status</i> | <i>Date and Year of Award, if so</i> |
|------------------------|------------------------------|-----------------------|--------------------------------------|
| NIL | | | |
| | | | |

12 Monograph/ Book / Chapter (in Edited Book) Writing

• **Book (Single Author)**

| <i>Title of Book</i> | <i>ISBN/ ISSN No.</i> | <i>Publisher with Place</i> | <i>Year of Publication</i> |
|----------------------|-----------------------|-----------------------------|----------------------------|
| NIL | | | |
| | | | |

• **Chapter(s) in Book (Edited / multi-author)**

| <i>Title of Chapter</i> | <i>Authors / Editors</i> | <i>Name of the Book with ISBN/ ISSN No.</i> | <i>Publisher with Place</i> | <i>Year of Publication</i> |
|-------------------------|--------------------------|---|-----------------------------|----------------------------|
| NIL | | | | |
| | | | | |

13 Sports Activities:

| <i>Sr. No.</i> | <i>Date</i> | <i>Name and Place of Sports Activity</i> | <i>Level</i> | <i>Organizing Institution</i> | <i>Position Secured/ Winner/Runner-up</i> |
|----------------|-------------|--|--------------|-------------------------------|---|
| | | | | | |
| | | | | | |

14 Extra Curricular Activities:

| <i>Sr. No.</i> | <i>Date</i> | <i>Name of Activity</i> | <i>Level</i> | <i>Organizing Institution</i> | <i>Position Secured</i> |
|----------------|-------------|-------------------------|--------------|-------------------------------|-------------------------|
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