



Curriculum Vitae

- 1 Name: **Dr. Narendra Nirwan**
- 2 Designation: **Assistant Professor**
- 3 Department: **Chemistry**
- 4 Educational Qualification:



| <i>Level</i> | <i>Name of University</i> | <i>Year</i> | <i>Title/Remark/Medal</i> |
|---------------|----------------------------|-------------|--|
| <i>B.Sc.</i> | Univ. of Rajasthan, Jaipur | 2000 | I st |
| <i>M.Sc.</i> | Univ. of Rajasthan, Jaipur | 2002 | I st |
| <i>Ph. D.</i> | MDSU, Ajmer | 2020 | Synthesis, characterization and biological activities of some Nitrogen containing heterocyclic compounds |

5 Teaching/ Research Experience:

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|-----------|----------|-----------|---------|-----------------|--------|
| <i>UG</i> | 13 years | <i>PG</i> | 11 year | <i>Research</i> | 9 year |
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6 Membership (Academic Bodies):

The Indian Science Congress Association

7 Academic Courses Attended:

(a) Orientation and Refresher Course

| <i>Course</i> | <i>Place</i> | <i>Sponsoring Agency</i> | <i>Duration</i> |
|---|---|--------------------------|--------------------------|
| <i>Orientation Course</i> | A.S.C., Jai Narain Vyas University Jodhapur | UGC | 30.05.2011 to 25.06.2011 |
| <i>Refresher</i> | A.S.C., MDSU, Ajmer | UGC | 28.09-2012 to 18.10.2012 |
| <i>Other (Workshop/ Summer School/ Camp etc.)</i> | School of Chemical Science and Pharmacy, Central University of Rajasthan, Bandersindri, Ajmer | UGC | 25.11.2013 to 01.12.2013 |
| <i>Refresher</i> | A.S.C., MDSU, Ajmer | UGC | 29-9-2015 to 09-10-2015 |
| <i>Refresher</i> | HRDC, University of Rajasthan, Jaipur | UGC | 15-11-2021 to 27-11-2021 |



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(b) Faculty Development Program/Short Term Professional Development Program

| S. No. | Theme of FDP | Organized by | Date | | Days | Remark |
|--------|--|---|-----------------------------|----------------------------|------|---------------|
| | | | From | To | | |
| 1 | International FDP on Data Science: The future and new technology | Balaji Institute of technology and science, Warangal, Telangana, India | 5 th Oct. 2020 | 9 th Oct. 2020 | 5 | |
| 2 | FDP on Learning Management System (MOODLE) For Online Teaching-Learning | Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi | 11 th Oct. 2020 | 17 th Oct. 2020 | 7 | |
| 3 | Online Teaching and Learning Tools | St. Marys College, Thoothukudi | 6 th Nov. 2020 | 8 th Nov. 2020 | 3 | |
| 4 | Initiative for Training- learning excellence in chemistry | Gyan- Ganga Govt. Dunger College, Bikaner | 18 th Jan. 2021 | 23 rd Jan. 2021 | 6 | |
| 5 | Pedagogy of teaching and tools on e-content development for effective teaching | Christopher Arts and Science College, Soorangudi, Tamil Nadu | 5 th July 2021 | 14 th July 2021 | 10 | |
| 6 | Recent Advances in Chemistry | Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi & | 30 th March 2022 | 5 th April 2022 | 7 | Flexible Mode |



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|---|--|---|--------------------|--------------------|---|------------------|
| | | Vellore Institute of Technology, Chennai | | | | |
| 7 | Role of Teacher in National Education Policy | Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi & Adv. B.D. Hambarde Mahavidyalaya, Ashti, Beed | 22 September, 2022 | 28 September, 2022 | 7 | Flexible Mode |
| 8 | Professional Development Programme on 'Implementation of NEP-2020 for University and College Teachers' | INDIRA GANDHI NATIONAL OPEN UNIVERSITY Staff Training and Research Institute of Distance Education New Delhi 110068 & Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching | 17 October, 2022 | 25 October, 2022 | 9 | Commissioner RHE |

(c) Short Term Training Program

| S. No. | Theme of STTP | Organized by | Date | | Days | |
|--------|--|--|---------------------------|----------------------------|------|--|
| | | | From | To | | |
| 1 | STTP on Building intelligent applications with deep learning Using PyTorch | Department of Computer science and Engineering, Rajalakshmi institute of Technology Chennai, India | 5 th Oct. 2020 | 10 th Oct. 2020 | 6 | |



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| | | & AICTE | | | | |
|---|---|---|---------------------------|----------------------------|---|--|
| 2 | An Awareness programme- Green Engineering concepts and Treatment Methods For Farmers in Rural Area | Department of Chemical Engineering, Paavai Engineering College, Namakkal, Tamilnadu | 8 th Nov, 2020 | 13 th Nov, 2020 | 6 | |
| 3 | Evolution of Polytronics in Future Technology | M.A.M. College of Engineering, Siruganur, Tiruchirappalli | 7 th Dec. 2020 | 12 th Dec. 2020 | 6 | |

8 Inviting speaker

| S. No. | Name of Conference | International/ National | Organized by | Day |
|--------|---------------------------------|-------------------------|-------------------------------|--------------|
| 1 | National Webinar on Science Day | National | Govt. College Tonk, Rajasthan | 28 Feb. 2021 |

9 Seminar/ Conference attended:

| S. No. | Name of Seminar/ Conference | Internat./ National/ Regional | Organizing institution | Attended/ Paper Presented | Title of Paper | Date |
|--------|--|-------------------------------|------------------------|---------------------------|----------------|-----------------------------|
| 1 | National Conference on Recent Trends in Chemical Science | National | | Participated | | 01.12.2009 to 02.12.2009 |
| 2 | National Seminar on Analytical | National | | Participated | | 08.02.2010 to |



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|----|---|---------------|--|--------------------------------|--|--------------------------|
| | Electrochemistry-2010 | | | | | 10.02.2010 |
| 3 | National Conference on Emerging Views in Advanced Chemistry-2010 | National | | Participated | | 17.12.2010 to 19.12.2010 |
| 4 | National Conference on Functional Materials | National | | Participated | | 11.02.2011 to 12.02.2011 |
| 5 | 6 th Biyanis International conference-2011 on Innovations in the Latest Healthcare Issues | International | | Paper Contribution | Recent Advances in Delivering Chemotherapy Drugs to deep seated Tumours in Cancer Patients by Adaptive Thermodynamic Therapy | 19.09.2011 to 21.09.2011 |
| 6 | National Seminar on Value Base Education in National Context | National | | Presented | Value based education in higher education | 20.10.2011 to 21.10.2011 |
| 7 | National Seminar on Chemistry of Primates : Green Chemistry | National | | Participated | | 29.11.2012 to 30.11.2012 |
| 8 | National Seminar on Innovative Teaching Methodology for 2D NMR Spectroscopy- A Technique With Difference | National | | Participated | | 21.03.2013 |
| 9 | 8 th Biyanis International conference-2013 on Agro-biodiversity and their Impact on Global Challenges. | International | | Paper Contribution & Presented | Fluctuations in Productivity of Puchkar lake due to Religious Activity During Puchkar Mela | 23.09.2013 |
| 10 | National Workshop on Consumer protection and Empowerment in India | National | | Participated | | 25.10.2013 to 26.10.2013 |
| 11 | NSS | Regional | | Participated | | 12.12.2013 to 13.12.13 |
| 12 | National Conference on Ecological Perspective of Rain Water Harvesting and Ground Water Recharge | National | | Presented | Rain Water Harvesting and Ground Water Recharge | 03.01.2014 to 04.01.2014 |
| 13 | Annual Research Seminar | Regional | | Presented | Nitrogen containing heterocyclic compounds | 20.01.2014 to 21.01.2014 |
| 14 | The 9 th Indo-Japan International conference on Advance Material Science And | International | | Presented | Biological Activity of some substituted Indole Derivatives | 13-10-2014 |



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| | Engineering | | | | | |
|----|---|---------------|--|--------------------------------|---|---|
| 15 | Annual Research Seminar | Regional | | Presented | Synthesis of imidazoles | 06.01.2015 to 07.01.2015 |
| 16 | The 10 th Indo-Japan International conference Applied Science for advancement of Research and Industrialization. | International | | Paper Contribution & Presented | Microwave-induced one-pot synthesis of 2,4,5-trisubstituted-1H-imidazoles by using reusable catalyst Amberlyst A-15 | 22-9-2015 |
| 17 | भारत में मानवाधिकार परिवेक्षा एवं परिपेक्ष्य | National | | Presented | Woman's right in India | 09-01-2016 |
| 18 | Green Chemistry and Sustainable Technologies for Society 2016 | National | | Presented | Green Synthesis of Highly substituted indolyimidazole derivatives by using reusable catalyst | 11 th & 12 th January, 2016 |
| 19 | Modern Trends in Chemical Science | National | | Presented | Green synthesis of 2,4,5-trisubstituted-1H-imidazoles by using reusable catalyst under Microwave irradiation | 30 th & 31 th January, 2016 |
| 20 | National Seminar on Biodiversity, Conservation and Eco tourism | National | | Presented | Chemistry of some medicinally important Plants | 27 th & 28 th Sept. 2016 |
| 21 | National Conference on Frontiers in Chemical Sciences | National | | Presented | A Green synthetic approach for indole derivatives | 4 th Oct. 2016 |
| 22 | National Conference and Workshop on Green Chemistry: Teaching and Technology | National | | Presented | Microwave-assisted Green approach Synthesis of substituted indolypyrimidine derivatives | 20 th Oct. 2016 |
| 23 | The 11 th India-Japan International conference | International | | Presented | Microwave-assisted Green approach Synthesis of substituted indole derivatives | 21 Oct.2016 |
| 24 | National Seminar on making facing environmental challenges & tackling disasters | National | | presented | Air pollution and Human health | 3-4 Dec. 2016 |
| 25 | National Seminar on Global Environmental Changes, Health and Society | National | | Presented | The rainwater Harvesting System- A solution of water crisis | 10 Dec. 2016 |



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| 26 | National Seminar on Empowering Human right through cashless economy in India | National | | presented | Common man and cashless economy of India | 6 th Jan. 2017 |
| 27 | National Conference on Ground Water Quality, Water Conservation, Management and Technology | National | | presented | A Simple Technique of water Conservation- Rainwater Harvesting System | 20-21 Jan. 2017 |
| 28 | International Conference on Frontiers at the chemistry-Allied Sciences Interface | International | | presented | Green approach Synthesis of Highly Substituted Indolyimidazole Derivatives by using Microwave irradiation | 22-23 July 2017 |
| 29 | International Conference on Advance in Applied Sciences, Engineering and Technology | International | | presented | Synthesis and Application of Silicotungstic Acid modified monimarillonite clay as a green catalyst for organic synthesis | 17-18 August 2017 |
| 30 | The 12 th India-Japan International conference | International | | presented | Role of Drugs in stress Reduction | 13 th Oct. 2017 |
| 31 | National workshop on Instrumentation Techniques for research in Chemical Science | National | | presented | A green approach for synthesis of bioactive imidazole derivatives | 22-23 Dec. 2017 |
| 32 | National conference on recent trends in science and social science in sustainable development (NCRSD-2018) | National | Government Girls College, Sirohi | presented | Conservation and management of water natural resources | 22 th - 23 th January, 2018 |
| 33 | National Conference on biodiversity, environment challenges and wildlife conservation (BECWC-2018) | National | Government P.G. College, Thanagazi, Alwar | presented | Environmental pollution and Human health | 24 th - 25 th January 2018 |
| 34 | National Conference on Recent Advances at Interfaces of Physical and Life Science | National | Department of Chemistry, University of Rajasthan, Jaipur | presented | An efficient Green approach for Synthesis of Substituted Indolyimidazole Derivatives by Using Reusable Catalyst Under Microwave irradiation | 6-7 July 2018 |
| 35 | National Conference on Environment: Issues, Challenges and Strategies | National | SPC Government College, Ajmer | presented | Environment pollution and its effect on human health | 1-2, Oct. 2018 |
| 36 | International Conference on Chemical | International | PAHER University, Udaipur | presented | A green synthesis and biological | 5-6 Oct. 2018 |



| | Science in New Era | | | | screening of some novel substituted indolyimidazole derivatives | |
|----|---|-----------------------|---|--------------|---|---------------------|
| 37 | International workshop and symposium on green chemistry and technology | International | P.G. Department of Chemistry, Govt. Dungar College Bikaner - 334 001(INDIA) | presented | Biological screening of some novel synthesized substituted indolyimidazole derivatives | 15-17, Oct. 2018 |
| 38 | International Conference on Environmental sensitivity and sustainable development BICON-2018 | International | Biyani group of College, Jaipur | presented | Environmental Sustainability Issues | 26 Nov. 2018 |
| 39 | International Conference on Recent advances at interfaces of physical and life science | International | Department of Chemistry, University of Rajasthan, Jaipur | presented | Synthesis and Biological Screening of Some Novel Substituted Indolyimidazole Derivatives (2019) | 28-30, January 2019 |
| 40 | International Conference on Recent in Environment & natural science ICRTENS | International | Government Science College, Sikar | presented | An efficient green synthesis of 3-(4,5-diphenyl-1 <i>H</i> -imidazol-2-yl)-5-substituted -1 <i>H</i> -indole derivatives and their biological screening | 12-13, Feb. 2019 |
| 41 | IBS | National | Ajmer | | | 14, Sep. 2019 |
| 42 | International Conference on Gandhi: the eternal truth relevance for future generations | International | SPC Government College, Ajmer | presented | Scientific approach of Mahatma Gandhi | 18-19, Sep. 2019 |
| 43 | International Conference on Environmental sensitivity and sustainable development BICON-2018 | International | Biyani group of College, Jaipur | presented | Amberlyst A-15: A reusable catalyst for synthesis of substituted indolyimidazoles | 23, Sep. 2019 |
| 44 | International Conference on emerging challenges, their solutions and recent advances in science | International | ORGANIZED BY GOVT. SCIENCE COLLEGE SIKAR (RAJ.) 332001 | presented | One-pot synthesis of 5-substituted indolyimidazole derivatives using Amberlyst a-15 as highly efficient, eco-friendly and reusable catalyst | 4-5, Oct. 2019 |
| 45 | International E-Conference (Webinar) | International Webinar | | Participated | | 15-17 may 2020 |



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| 46 | National E-Workshop (Webinar) | National Webinar | | Participated | | 29 May2020 |
| 47 | Read Quality-Publish Quality-Write Effectively Elsevier (Webinar) | International Webinar | | Participated | | 11 Jun 2020 |
| 48 | कोरोना कल में परिवर्तित जीवन मूल्य, साहित्य, संस्कृति व समाज के परिपेक्ष्य में | National Webinar | | Presentation | "कोरोना और हमारी जीवनशैल" | 29-30 July 2020 |
| 49 | "Interdisciplinary Approach and Pedagogical Innovations in Higher Education: New Education Policy 2020" | National Webinar | | Participated | | 21 August 2020 |
| 50 | “Sustainable Utilization of Herbal Resources: Conservation & Challenges”, | National Webinar | | Participated | | 2 Sep. 2020 |
| 51 | Role of teacher in Nation Building | International Webinar | | Participated | | 8 Sep. 2020 |
| 52 | राष्ट्रीय ई-परिसंवाद एवं कार्यशाला | National | Government Girls College, Ajmer | Presented | हिन्दी कहानी में प्रकृति चित्रण और मानवीय संवेदना | 7-9 Dec. 2020 |
| 53 | International Webinar On “Chemistry Solutions to Climate Change : Building Better Future” | International Webinar | | Participated | | 22 December, 2020 |
| 54 | E- Seminar on National Education Policy: A ideological Analysis and Technically Vocabulary | E- Seminar | SPC Government College, Ajmer | Presented | Scientific Development in India | 9 th Jan 2021 |
| 55 | Impact of climate change on Socio-economic and Biological Aspects of Life (ICCSEBA) | National Conference | | Participated | | 23-24 April 2021 |
| 56 | Origin, current Scenario and Future Challenges of Green Chemistry | National e-conference | | Participated | | 2 Sept. 2021 |



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|----|---|---------------------------|--|--------------|--|-----------------|
| 57 | Socio-Political Change in Afghanistan after Resurgence of Taliban | International e-Symposium | | Participated | | 28 Sept. 2021 |
| 58 | Spectroscopic Techniques: A tool for structure elucidation | National Webinar | Department of Chemistry Sophia Girls College, Ajmer | Participated | | 21-22 Oct. 2021 |
| 59 | Recent Advances in Physics (RAP-2021) | National conference | | Participated | | 29-30 Oct. 2021 |
| 60 | Online Webinar on Leadership | National Webinar | | Participated | | 15 Dec. 21 |
| 61 | International Conference on Multidisciplinary Approaches to Environmental Research for Human Health | International Conference | University of Rajasthan | Presented | Environmental Chemical Pollution and Toxic Risk for Humans | 22-24 Dec. 2021 |
| 62 | IP Awareness/Training program | National | Department of Promotion of Industry and Internal Trend, Government of India | Participated | | 23 Jan. 2022 |
| 63 | IP Awareness/Training program | National | Department of Promotion of Industry and Internal Trend, Government of India | Participated | | 8 March 2022 |
| 64 | IP Awareness/Training program | National | Department of Promotion of Industry and Internal Trend, Government of India | Participated | | 12 March 2022 |
| 65 | IP Awareness/Training program | National | Department of Promotion of Industry and Internal Trend, Government of India | Participated | | 15 March 2022 |
| 66 | INTERNATIONAL CONFERENCE on RENEWABLE ENERGY | International Conference | CENTRE FOR NON-CONVENTIONAL ENERGY RESOURCES (CNCER), UNIVERSITY OF RAJASTHAN, JAIPUR, INDIA in association with INTERNATIONAL ASSOCIATION FOR HYDROGEN ENERGY | Presented | Chemical energy conservation in green synthetic technology for preparing new indolyimidazole derivatives | 25-27 Feb. 2022 |



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| | | | (IAHE),USA & MRSI, RAJASTHAN | | | |
|----|---|-------------------------|---|-----------------|--|--------------------|
| 67 | National Conference on “ Water Quality, Biodiversity, Global Environmental Issues and Solutions” | National Conference | Department of Science & Technology, Rajasthan & Eco club, Samrat Prithviraj Chauhan Government College, Ajmer | Presented | Ground Water quality in Rajasthan: Problems and their Solutions | 22 March 2022 |
| 68 | One Day National Seminar On Animal Behaviour | National Seminar | Department of Zoology, Government Girls College Kherwara | Participated | | 23 April 2022 |
| 69 | “हिन्दी साहित्य में आदिवासी, दलित एवं स्त्री विमर्श” | National Seminar | राजकीय स्नातकोत्तर महाविद्यालय, झालावाड़ राजस्थान | Participated | | 28 April 2022 |
| 70 | New Trends in Chemical Research | International (Virtual) | Department of Chemistry, S.U.S. Govt. College Matak Majri, Karnal | Presented PP-40 | Synthesis and Antibacterial Activity of 3-(4,5-Diphenyl-1H-imidazol-2yl)-1H-indole derivatives | 29-30 April 2022 |
| 71 | Quiz on word environment day-2022 | National | Organization of Environment and wildlife conservation, India | Participated | | 5 June 2022 |
| 72 | Two Days National Seminar On Innovative Measures For Enhancement & Sustenance of Quality Education in Higher Education Institutions | National | GOVT. E RAGHAVENDRA RAO POSTGRADUATE SCIENCE COLLEGE BILASPUR (C.G.) -495006 | Participated | | 14 & 15 June, 2022 |
| 73 | webinar titled " Potentials of GitHub" | International | A2Z EduLearningHub LLP | Participated | | 21 June, 2022 |
| 74 | Quiz on snake day | National | AN ORGANIZATION ENVIRONMENT & WILDLIFE CONSERVATION KOTA RAJASTHAN | Participated | | 19 July 2022 |
| 75 | International Conference On “recent | International | S. S. Jain | Participated | | 30 July 2022 |



| | advances in business technology” | | Subodh Management Institute, Jaipur | | | |
|----|---|---------------|---|-----------|---|---|
| 76 | International Conference on Multidisciplinary Approach Towards Sustainable Development and Climate Change for a Viable Future (ICMSDC-2022) | International | RAJ RISHI GOVT. AUTONOMOUS COLLEGE ALWAR-301001, RAJASTHAN, INDIA | Presented | “Chemical pollution, Human Health and its Solutions” | 12 th – 14 th AUGUST 2022 |
| 77 | International Conference on Multidisciplinary Approach Towards Sustainable Development and Climate Change for a Viable Future (ICMSDC-2022) | International | RAJ RISHI GOVT. AUTONOMOUS COLLEGE ALWAR-301001, RAJASTHAN, INDIA | Presented | “Synthesis, Spectral and Biological Investigations on Complexes of Transition metal Complexes with Bioactive Ligands” | 12 th – 14 th AUGUST 2022 |
| 78 | All India Seminar on Recycle and Reuse of Waste Water | National | Rajshree Institute of Management and Technology, Bareilly, UP | Presented | Municipal Wastewater Treatment and Reuse | 17-18 Oct. 2022 |
| 79 | 5. INTERNATIONAL SCIENCE AND INNOVATION CONGRESS | International | INTERNATIONAL SCIENCE AND ART RESEARCH CENTER, ANKARA | Presented | Amberlyst A-15: A recyclable catalyst using in greener and efficient one-pot synthesis of novel multi-substituted 3-(4,5-diphenyl-1H-imidazol-2-yl)-1H-indole derivatives | 11-12 NOVEMBER 2022 |



10 Research Publications

| S. No. | Title of Paper | Name of Journal with Impact factor & ISSN No. | Volume and No. with Year | Citation Index | Impact Factor | Google Index |
|--------|--|---|--|----------------|-----------------------|--------------|
| 1 | Role of Nitrogen-Containing Natural Heterocyclic Compounds in Medical Science: A Mini Review | IJSRST P: ISSN : 2395-6011 E: ISSN : 2395-602X | Vol.-II, Issue-8; 2015 | UGC-64011 | SJIF 3.587 | Yes |
| 2 | Bio-Accumulation of Cr ³⁺ Ions by <i>Saccharomyces Cerevisiae</i> | Asian Resonance P: ISSN No. 0976-8602 E: ISSN No. 2349 – 9443 | Vol.-IV, Issue-II; 2015 | UGC-40888 | GIF 0.876 | Yes |
| 3 | Some Physico-Chemical Parameters of Ground Water Samples of Jetaran Area, Pali District, Rajasthan (India) | Periodic Research P: ISSN No. 2231-0045 E: ISSN No. -9443 | Vol.-III, Issue-IV; 2015 | UGC-41295 | SJIF 6.21 | Yes |
| 4 | Ferrous Ion Catalyzed Photooxidation of Methylene Blue with Peroxydisulphate Ion | IJSRST Print ISSN: 2395-6011 Online ISSN: 2395-602X | V-I, Issue-2, 132-139; 2015 | UGC-64011 | SJIF 3.587 | Yes |
| 5 | Bioaccumulation of Cu ²⁺ ion by <i>Saccharomyces cerevisiae</i> | Asian Resonance P: ISSN No. 0976-8602 E: ISSN No. 2349 – 9443 | Vol.-IV, Issue-IV; 2015 | UGC-40888 | GIF 0.876 | Yes |
| 6 | Micellar Studies of Calcium Soaps Using Ion-Selective Electrode | IJSRSET Print ISSN: 2395-1990 Online ISSN : 2394-4099 | Volume-1, Issue-1 p 435-444 2015 | UGC-47147 | SJIF 5.016 | Yes |
| 7 | Micellar Studies of Magnesium Caproate after Addition of Amide Additives Using Ion-Selective Electrode | IJSRST Print ISSN: 2395-6011 Online ISSN: 2395-602X | Volume-1, Issue-3 p231-240 2015 | UGC-64011 | SJIF 5.327 | Yes |
| 8 | Synthesis of new bioactive molecules and their biological screenings | New BIOTECHNOLOGY; ELSEVIER | Volume-33 Issue –S, | UGC-37695 | 3.183 | |



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|----|---|---|--|-------------------------------|-----------------------|------------|
| | | ISSN No. 871-6784 | 2016 | | | |
| 9 | The rainwater harvesting System- A Solution of water crisis | Research ICON ISSN No. 2395-6585 | Volume-II No.3; 2016 | Referred | | |
| 10 | Micellar Studies of Magnesium Caprylate after Addition of Hydroxy Additives Using Ion-Selective Electrode | IJSRCH ISSN : 2456-8457 | Volume 1 Issue 2, p15-22 2016 | UGC/ Peer-reviewed & Refereed | | |
| 11 | Physico-Chemical Studies of Calcium Caproate after Addition of Amide Additive Using Ion-Selective Electrode | IJSRSET, Print ISSN: 2395-1990 Online ISSN: 2394-4099 | Vol.-II, Issue-5, p 599-610; 2016 | UGC-47147 | SJIF 5.016 | Yes |
| 12 | Physico-Chemical Studies of Calcium Caprylate after Addition of Hydroxy Additives Using Ion-Selective Electrode | IJSRCH ISSN : 2456-8457 | Vol.-II, Issue-1, 30-39; 2017 | UGC/ Peer-reviewed & Refereed | SJIF 5.162 | Yes |
| 13 | Synthesis of 2,4,5-trisubstituted imidazole and 4,5-disubstituted indolyimidazole derivatives by using Amberlyst A-15 as green, recyclable catalyst | IJSRST Online ISSN : 2395-602X | Vol.-II, Issue-8, 76-82; 2017 | UGC-64011 | SJIF 5.327 | Yes |
| 14 | Electrometric Comparative Studies of Calcium and Magnesium Soaps Using Ion-Selective Electrode | IJSRST, Online ISSN: 2395-602X | Vol.-III, Issue-3, 758-765; 2017 | UGC-64011 | SJIF 5.327 | Yes |
| 15 | Calculation of Free Energy of Micellization of Alkaline Earth Metal Soaps after Addition of Amide Additives Using ISE | IJSRST, Online ISSN: 2395-602X | Vol.-III, Issue-7, 1503-1510; 2017 | UGC-64011 | SJIF 5.327 | Yes |
| 16 | Free Energy of Micellization of Magnesium and Calcium Soaps After Addition of Hydroxy Additives Using ISE | IJSRCH ISSN : 2456-8457 | Vol.-III, Issue-1, 65-71; 2017 | UGC/ Peer-reviewed & Refereed | SJIF 5.162 | Yes |
| 17 | Iron Catalyzed Photo-oxidation Of Azure-A with Peroxydisulfate Ion | IJCRT ISSN: 2320-2882 | Vol.-6, Issue-1, p25-33 2018 | UGC-49023 | 7.97 | Yes |
| 18 | An Efficient Green Synthesis of Substituted | Indian Journal of Heterocyclic | Vol. 28 - Number 02, | UGC-48479 | 1.11 | |



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|----|---|--|---|---------------------------------|--|---|
| | Indolyimidazole Derivatives by Employing Reusable Catalyst under Microwave Irradiation | Chemistry ISSN (Print) : 0971-1627 ISSN (Online) : 2456-4311 | 249-254; 2018 | & Web. Science | | |
| 19 | Indolyimidazoles: Synthetic approaches and biological activities | Current Chemistry Letters, Canada ISSN 1927-730X (Online) ISSN 1927-7296 (Print) | Volume 9 Issue 1 pp. 31-50 July-2019 | UGC-43268 & Scopus | SJR 0.84 | |
| 20 | Degradation of acriflavine using environmentally benign process involving singlet-oxygen-photo-Fenton: A comparative study | Journal of Photochemistry & Photobiology A: Chemistry; Elsevier ISSN: 1010-6030 | Volume-398 Issue-112547 pn. 1-8 2 April 2020 | Scopus | 5.2 | |
| 21 | Greener and efficient one-pot synthesis of novel multi-substituted 3-(4,5-diphenyl-1H-imidazol-2-yl)-1H-indole derivatives by using recyclable catalyst under microwave irradiation | Current Chemistry Letters, Canada ISSN 1927-730X (Online) ISSN 1927-7296 (Print) | Volume 10 Issue 3 pp. 261-270, 14, Feb-2021 | UGC-43268 & Scopus | Cite Score 1.10 | https://www.scopus.com/sources.uri |
| 22 | Environmental Protection Laws in India | Innovation The Research Concept ISSN: 2456-5474 | VOL.- VII, Issue- I February - 2022 Pn H58 to H64 | Peer- reviewed & Refereed | SJIF 6.122 | |
| 23 | Green Synthesis, Characterisation and Antibacterial activities of 4-Nitroacetophenonethiosemicarbazone and 3-Nitrobenzaldehyde thiosemicarbazone | IJSRST ISSN: 2395-6011(Print) ISSN: 2395-602X (Online) | 9 (4) : 685-689 July-August 2022 | Peer- reviewed & Refereed | SJIF 5.327 | |
| 24 | Green Synthesis, Characterisation and Antibacterial activities of 3-Nitroacetophenonethiosemicarbazone and 4-Hydroxyacetophenonethiosemicarbazone | Innovation The Research Concept ISSN: 2456-5474 | Vol-VII, Issue-VII August-2022 | Peer- reviewed & Refereed | SJIF 6.122 | |
| 25 | TRANSITION METAL COMPLEXES OF THIOSEMICARBAZONES: STRUCTURE AND BIOLOGICAL ACTIVITY | International Journal of Novel Research in Physics Chemistry & Mathematics | Vol. 9, Issue 3, pp: (1-7) September - | Peer- reviewed & Refereed | | |



| | | ISSN 2394-9651 | December 2022 | | | |
|----|--|--|---------------------------------------|---|--------------|--|
| 26 | Environmental Concerns in India: Issues and Solutions | Bulletin of Environment, Pharmacology and Life Sciences (ISSN: 2277- 1808) | Vol. 11 [Spl issue 3] Oct. 2022 | UGC- Care Listed, Peer- reviewed & Refereed | NAAS 4.95 | |
| 27 | Synthesis, Antibacterial and Antifungal Activities of 3-(4,5-Diphenyl-1H-imidazol-2-yl)-1H-indole Derivatives | JSR ISSN: 2070-0237 (Print) ISSN: 2070-0245 (Online) | Vol.15, Issue-1 Jan. 2023 | UGC- Care Listed, Peer- reviewed & Refereed | | |
| 28 | Microwave Assisted Synthesis, Characterisation and Biological Activities of Cu(II) Complexes of Few Thiosemicarbazones Ligands | JSR ISSN: 2070-0237 (Print) ISSN: 2070-0245 (Online) | Vol.15, Issue-1 Jan. 2023 | UGC- Care Listed, Peer- reviewed & Refereed | | |

11 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> |
|-----------------------------|-------------|-------------------------------|---------------------------------|-----------------------|
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12 Research Supervision:

- *Basic Field of specialization:*

❖ Ph.D.

| Name of Student | Title of thesis | Present status | Date and Year of Award, if so |
|-----------------|-----------------|----------------|-------------------------------|
| | | | |

13 Monograph/ Book / Chapter (in Edited Book) Writing:

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

| S. No. | Title of Chapter | Title of book | Authors/ Editors | Name of the Book with ISBN/ ISSN No. | Publisher with Place | Year of Publication |
|--------|--|---------------------------------------|------------------|--------------------------------------|-----------------------|---------------------|
| 1 | Recent Advances in Delivering Chemotherapy Drugs to deep seated Tumours in Cancer Patients by Adaptive Thermodynamic Therapy | Indo-japan international conerence-11 | <i>Author</i> | Conference Proceeding | BICM Pvt. Ltd, Jaipur | 2011 |
| 2 | Fluctuations in Productivity of Puchkar lake due to Religious Activity During Puchkar Mela | Indo-japan international conerence-13 | <i>Author</i> | ISBN: 9789383343003 | BICM Pvt. Ltd, Jaipur | 2013 |
| 3 | Microwave-induced one-pot synthesis of 2,4,5-trisubstituted-1H-imidazoles by using reusable catalyst Amberlyst A-15 | Indo-japan international conerence-15 | <i>Author</i> | ISBN: 9789383462797 | BICM Pvt. Ltd, Jaipur | 2015 |



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|----|--|--|---------------|--|--|------|
| 4 | Rainwater harvesting system and Ground water recharge in India | Ecological Perspective of Rain Water Harvesting and Ground Water Recharge | Author | ISBN: 81-85468-80-X p-101-106 | Navkar Prakashan, Ajmer | 2017 |
| 5 | Municipal waste water and its treatment | Ecological Perspective of Rain Water Harvesting and Ground Water Recharge | Author | ISBN: 81-85468-80-X p-67-71 | Navkar Prakashan, Ajmer | 2017 |
| 6 | An Efficient Combinatorial Approach for Beta-Lactam Antibiotics with Novel Adjuvants against Gram-Negative Organisms to Combat Multi-Drug Resistance | International conference on applied in engineering, science and technology | Author | ISBN: 978-609-96043-3-6 p-134-143 | Brussels, Belgium | 2018 |
| 7 | The Health and Environmental Management | “Emerging Sustainable Technology and Innovations for Safe Water & Health” In 14 th India-japan International conference-19 | Author | ISBN: 798-93-83462-95-7 P: 121-127 | BICM Pvt. Ltd, Jaipur | 2019 |
| 8 | Water Purification Methods at Domestic Level | “Emerging Sustainable Technology and Innovations for Safe Water & Health” In 14 th India-japan international conference-19 | Author | ISBN: 798-93-83462-95-7 P: 138-143 | BICM Pvt. Ltd, Jaipur | 2019 |
| 9 | Treatment of depression by utilizing chemical and salubrious activities | Contribution of Literature and Music in the treatment of Depression | Author | ISBN: 978-81-948717-0-5 | Shree Vinayak Publication, Agra | 2020 |
| 10 | Teacher is a Nation Builder | Role of Teacher in Nation | Author | ISBN: | Shree | 2020 |



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|----|--|---|---------------|---------------------------|------------------------------------|------|
| | | Building | | 978-93-87904-13-2 | Vinayak Publication, Agra | |
| 11 | The role of chemical technology in ancient art preservation (प्राचीन कला संरक्षण में रासायनिक तकनीकी की भूमिका) | interrelationship of fine arts (ललित कलाओं का अंतर्संबंध) | Author | ISBN: 978-93-9177762-3 | Raj Publishing House, Jaipur | 2022 |

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> |
|----------------|-------------|--|--------------|-------------------------------|-------------------------|
| 1 | 02-06-2020 | COVID-19 Awareness Quiz | National | Govt. Girls College, Ajmer | Organizing Secretary |
| 2 | 28-02-2021 | Sir C.V. Raman Memorial National Level Science Quiz-2021 | National | Govt. Girls College, Ajmer | Organizing Secretary |
| 3 | 01-03-2021 | Poster Competition on Importance of Science in the Current Perspective | College | Govt. Girls College, Ajmer | Organizing Secretary |



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| 4 | 02-03-2021 | Essay Competition on Significance of Science day | College | Govt. Girls College, Ajmer | Organizing Secretary |
| 5 | 03-03-2021 | National Workshop on Use of Technology in Education | National | Govt. Girls College, Ajmer | Organizing Secretary |