

## **Dr. RAJESH RAM**

### **ASSISTANT PROFESSOR (Senior Scale)**

Department of Chemistry,

B.S.N.V., Post Graduate, College (KKV)

(An Associated College of University of Lucknow)

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### **Area of Research:**

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#### **Natural Product Chemistry:**

1. Phytochemicals extraction, isolation, characterization, biological activity evaluation and natural products based semi-synthesis for safer drug development.
2. Ayurvedic poly herbal formulation to cure Diabetes, Blood pressure, Kidney failure, liver problems and Obesity.
3. Synthesis of modified Nucleosides, Nucleotides and genetic engineering products (Intermediates of DNA/RNA) for the development of Nucleosidic drugs for cancer therapy.

### **Profile Snapshot:**

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1. Proficient in planning and developing appropriate teaching learning programmes to optimize the learning process with effectively addressing student needs.
2. Skilled in integrating relevant technology to support classroom instruction and learning activities through smart classroom.
3. Expert in designing job oriented courses, value added courses, add-on courses and vocational training programs.
4. Career counselor; fluent in English and Hindi.
5. Member of Indian Science Congress and Editorial board of Anusandhan Soadh Patrika.
6. Area of Research: Natural Product Chemistry based semi-synthesis and Poly herbal formulations to control viral infection, diabetes, B.P. and obesity.
7. Over 12 years of experience in teaching; currently working as an Assistant Professor in associate college of University of Lucknow, Lucknow under the State Ministry of Higher Education Uttar Pradesh.

## Qualifications:

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- ❖ **M.Sc. Chemistry** (1998), From **Banaras Hindu University**, Varanasi, U.P. India, **Specialization-** Organic Chemistry.
- ❖ **M.Phil. Analytical Chemistry**, (2003), from **Indian Institute of Technology Roorkee**, Uttarakhand; **Specialization-** Industrial Methods of Chemical Analysis.
- ❖ **Ph.D. in Chemistry** (2016), **University of Lucknow**, Lucknow, U.P. India. **Specialization-** Natural Products Chemistry.
- ❖ **UGC-CSIR (NET)**, 2007, Chemistry, Chemical Science

## Project Proposal

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1. Importance Of Natural Coloring Pigments & Dyes Related From Plants And Their Clinical Use. (U.P. Department of Higher Education, Prayagraj).
2. Phytochemical investigation and evaluation of biological activity in ayurvedic plants and herbs. (Minor project Submitted in UGC, New Delhi, India).

## Papers Published: (05)

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1. **Rajesh Ram\***, Innovative Approaches Development To Learn Strategy In Chemistry Education” *J. Chemtrachs* 18(2) 291-300, **2016**; ISSN 0973-239X.
2. **Rajesh Ram\***, Parul Varshney, Paras Nath Chowdhary and Sudha Jain\*, ”Biological and Chemical profile of Capsicum species.” *Indian Perfumer* 60 (4) 15-31, Oct.-to-Dec **2016**; ISSN. 0019-607X
3. **Rajesh Ram\***, Parul Varshney, Paras Nath Chowdhary and Sudha Jain\*” ‘Antioxidant, free radical scavenging activities and HPLC profile of phytophenolic compounds of Capsicum species”; *Indian Perfumer* 16 (1) 2137, Jan.-March **2017**; ISSN. 0019-607X.
4. **Rajesh Ram\***, Mamta Verma ,” Ayurvedic herbal remedies against Corona Pandemic Respiratory Infections caused by Novel Corona Virus-2019; *Anusandhan (Research Journal)* 8 (1) 9-17 **2020**; ISSN. 2350-0123.
5. **Rajesh Ram\***, NK Awasthi, Evaluation of medicinal potential of medicinal plants and herbs in terms of nutritional elements analysis using INAA; under thermal neutrons

irradiation, and ICPS.TRN:IN1301128066667,08JULY.

## Conferences/Workshop/Seminars

S.N.	Type	Level	Name of Conference/ Seminar	Title of Paper/Lecture	Start Date	End Date
1	Paper presentation in Seminar/Conference	National	National Conference On Role Of Mathematics In Advancement Of Science And Technology Organized By Department Of Mathematics B S N V Pg College Lucknow	Role Of Mathematics As Modeling Approach In Chemicals Sciences	18-10-2013	20-10-2013
2	Paper presentation in Seminar/Conference	International (abroad)	CTDDR-2013 Organized By Cdri Lucknow	1234 Tetra Hydro Isoquinoline Derivatives Synthesis As An Anti-Cancer Species Drugs	26-02-2013	28-02-2013
3	Paper presentation in Seminar/Conference	National	National Conference On Environment And Gomti River Friend Association Organized By Lok Bharti And NSS University Of Lucknow	Green Chemistry of Education To Control aquatic Pollution for Cleaning Action of River	08-11-2015	08-11-2015
4	Paper presentation in Seminar/Conference	National	National Symposium In Innovative In Chemistry Education And National Convention Of Chemistry Teacher	Innovative Approach Development To Learn Strategy In Chemistry Education	08-10-2015	10-10-2015
5	Paper presentation in Seminar/Conference	National	National Seminar On Save Few (Fuel, Electricity , Energy Environment And Water)	Sugar Crops: A Sustainable Resource For Production Of Bio Fuels And Alcohol	13-03-2016	13-03-2016
6	Paper presentation in Seminar/Conference	National	National Seminar Higher Education Issues ,Challenges Prospects And Strategies Organized By Luacta And Mumtaz Pg College Lucknow	Scenario Of Higher Education In Up Issues Challenges And Suggestions	11-09-2016	11-09-2016
7	Paper presentation in Seminar/Conference	National	National Seminar On Ganga Pollution : Analysis And Remedies Organized By Department Of Chemistry D A V Pg College Kanpur	Toxic Metals And Chemicals Pollution Scenario In Water Of Ganga River	07-10-2016	08-10-2016
8	Paper presentation in Seminar/Conference	National	National Seminar On Recent Trends And Future Prospects In Sustainable Agriculture With Reference To Climate Change Organized Department Of Agronomy Janta College Bakewar Etwah Up	Scenario Of Climate Change Strategies And Its Impact On Hazards And Disaster	18-03-2017	19-03-2017
9	Paper presentation in Seminar/Conference	National	National Conference On Recent Advances And Innovations In Chemical And Materials Science Organized By Department Of	Oral Presentation On Issues And Remedy Challenges Of Aqi And Its Impact On	23-02-2017	24-02-2017

			Chemistry J N P G College Lucknow	Environment Sustainability		
10	Paper presentation in Seminar/Conference	National	National Seminar On Digital Learning Opportunities And Challenges In Higher Education Institutes Organized By Department Of Physics B S N V Pg College Lucknow	Impact Of Social Media And Networking In Indian Education	05-05-2018	05-05-2018
11	Paper presentation in Seminar/Conference	National	National Seminar On Food Chemistry , Processed Food And Toxicology Organized By Department Of Chemistry D.A.V Pg College Kanpur	Metal Toxicity In Spices : Elemental Analysis And Dietary Intake	25-09-2019	26-09-2019
12	Paper presentation in Seminar/Conference	National	National Seminar On Need For Forward Looking Development Strategies For India	Clean And Green India Moments: A Model Of Sustainable Development Of India	05-11-2019	06-11-2019
13	Paper presentation in Seminar/Conference	National	National Seminar Of Changing Paradigm Of Higher Education In India : Issues And Challenges With Special References To Uttar Pradesh	Innovative Strategies Development To Learn Economy Based Higher Education	2018 2018	10-10-2018 10-10-2018
14	Paper presentation in Seminar/Conference	National	National Conference On "Chemicals Sciences : Advancing Frontiers" Organized By Department Of Chemistry University Of Lucknow	HPLC And GCMS Profile Of Phyto Chemicals In Mentha Species	15-03-2019	16-03-2019
15	Paper presentation in Seminar/Conference	National	National Seminar On Socio Economic And Technological Advancements In 21st Century India Organised By D D U Govt Pg College Sitapur	Impact Of Chemicals On Health: Awareness And Its Consequences	17-01-2020	18-01-2020
16	Paper presentation in Seminar/Conference	International (within country)	International Confrence On Chemistry : Frontiers And Challenges Depatment Of Chemistry Aligarh Muslim University	Design , Synthesis of Coordination Complexes Of Piperadin Derivatives For Biological Activities	05-03-2011	06-03-2011
17	Paper presentation in Seminar/Conference	International (within country)	International Confernce And Humboldt Kolleg On Recent Aspects Of Organic / Organometalic Compounds And Their Usefulness In Materials And Industries Organized By Chemistry Department University Of Luc	Anti Helmentic And Hepato Protective Compounds Synthesis Using Piperadin Derivatives	03-01-2012	06-01-2012
18	Paper presentation in Seminar/Conference	International (within country)	International Conference On Chemistry And Materials Prospects And Perspectives-2012	Evaluation Of Nutritive Potential Of Spices Under Thermal Neutron Irradiation	14-12-2012	16-12-2012
19	Paper presentation in Seminar/Conference	International (within country)	Sources Of Planet Energy, Environmental And Disaster Science: Changes And Strategies	Radioactivity Application In Nutritive Potential Evaluation	01-11-2014	02-11-2014

				Using Advance Techniques ICPS,AAS,INAA		
20	Paper presentation in Seminar/Conference	International (within country)	Environmental And Disaster Science : Challenges And Strategies	Innovative Approaches Development To Learn Strategies In Chemistry Education	21-11-2015	22-11-2015
21	Paper presentation in Seminar/Conference	International (within country)	3rd International Seminar On Sources Of Planet Energy , Environmental And Disaster Science:Challenge And Strategies	Climate Change And Its Impact On Natural Disaster	19-11-2016	20-11-2016
22	Paper presentation in Seminar/Conference	International (abroad)	Nepal Academy Of Science And Technology " Science And Technology For Prosperous Federal Nepal"	Metal Toxicity In Spices: Elemental Analysis And Dietary Intake	21-05-2018	22-05-2018
23	Paper presentation in Seminar/Conference	International (within country)	Global Environment & Human Existence : Changes And Challenge	Major Environmental Issues And Its Impact On Human Survival	07-09-2019	08-09-2019
24.	Paper presentation in Seminar/Conference	National	National Educational Policy 2020	National Educational Policy 2020	15-03-2021	17-09-2021
25.	Paper presentation in Seminar/Conference	National	Issues and Remedy Challenges of AQI and its Impact on Environmental Sustainability	Environmental Challenges and Sustainability	15-9-2021	18-09-2021
26.	Paper presentation in Seminar/Conference	National	Adjusted Session in the conferences	Environmental Challenges and Sustainability	15-9-2021	18-09-2021
27.	Certificate for Appreciation in the Academic and Cultural Event	National	Member of the organizing Committee	Nawonmesh	15-9-2021	18-09-2021
28.	Paper presentation in Seminar/Conference	National	Invited Speaker in the Conference	LCCCCGGGSCT-2022	22-04-2022	24-04-2022

## **Industrial Experience:**

- \* Worked as **Junior Scientist** in ESSCEE BIOTECH (INDIA) PVT. LTD. And prepared modified nucleosides (a chemical intermediates of Genetic Engineering), since April-1 1998 to May-17 1999.
- \* Attended training programme “Quality Control of Essential Oils and development of fragrance and flavor” at FRAGRANCE & FLAVOUR DEVELOPMENT CENTRE, Makrand Nagar, Kannauj, Uttar Pradesh.
- \* Worked as **Shift Incharge** in PURAKA CHEMICALS PVT. LTD. and prepared ferric alum.

## **Social & Administrative Activities:**

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- \* Worked as Programme Officer of NSS since 2013 -to- 2016. in B.S.N.V. P.G. College, University of Lucknow, Lucknow, under the Ministry of Youth Affair And Sports Govt. of India.
- \* Worked as Coordinator in NGO India Against Legal Terrorism to save the life of old and senior citizen and awarded **PEACE award** by U.P. state governor.