

### Profile of Dr. Sushma Jain (2014 to 2021)

**Name : Dr. SUSHMA JAIN**

**Designation : Associate Professor**

**College : Govt. Dungar College Bikaner, Rajasthan**

#### DETAILS OF M.Phil STUDENTS

S.N.	Name of the student	Year of registration	Year of submission	Year of award	Title of thesis	Email Id	Moble No.
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#### DETAILS OF Ph.D STUDENTS

S. N .	Name of the student	Year of registration	Year of submission	Year of award	Title of thesis	Email Id	Moble No.
1	Monika Agarwal	2010	2013	2014	Hydrochemical Evaluation of ground of area around Raisar district Bikaner (Raj.)	magarwal095@gmail.com	9413372829
2	Annu Bajaj	2010	2015	2016	Spectrophotometric study of doped Pr(III), Nd(III), Er(III), and Sm(III) ions with solution of some therapeutically used chemical compound in different stereoenvironment	annu.bajaj11@gmail.com	9996535987
3	Anuradha Aseri	2014	2019	2021	A study of physico chemical parameters of sewage water and effect of sewage water irrigation on soil properties of different area around Bikaner	aaanu04@gmail.com	9024693637
4	Parul Kumar	2016	2021	-	Hydrochemical analysis of ground water and impact of water pollution on soil and plants of villages of sirsa district, Haryana.	parulsardana3@gmail.com	9466639779
5	Pankaj Rohewal	2016	Pursuing	-	Spectrometric study of lanthanide [Pr(III), Nd(III), Sm(III), Er(III)] ions with biologically significant ligands in the presence of calcium and zinc ion.	pankajrohe wal@gmail.com	9729017003

## **LIST OF PUBLICATIONS**

### **RESEARCH PAPERS IN JOURNALS:**

1. Ground water status and flow in years 2010,2011 and 2012 in area around Raiser District Bikaner, Rajasthan. Int.J. of Geology, Earth and Environmental Sciences (online) Vol.4(1), pp168-173, Jan-April(2014).
2. A study of ground water and its fluctuation in Raisar, Bikaner District Rajasthan. Book. "Geo Resources" ISBN 978-81 -7233-894-4 New publication, Scientific publisher (2014).
3. Calculation of oscillator strength and other electronic parameters for Samarium and Samarium mixed with IAA in different solvents using 4f-4f transition spectra as probe. Int. J. For Advance Research in Engineering Science and Technology. Vol. 2, 2014.
4. Characterisation of Electronic Spectral Parameters of Er(III) ion with therapeutically important ligands in DMSO solvent. Journal of Chemical, Biological and Physical Sciences. Vol. 4 No. 2, pp 1118-1123. Feb- April (2014).
5. Assessment of heavy metals in soil irrigated with sewage water of different areas around Bikaner city. Asian J. research chem. 11(2)2018. ISSN 0974-4169(P), ISSN 0974-4170 (O).
6. Comparative study of heavy metal concentration in water collected from different sewage irrigated field around Bikaner city. Int. J. of Applied Environmental Sciences Vol.14, No 4 pp 229-305 (2019). ISSN 0973-6077.
7. Study of heavy metals concentration in sewage water of different areas around Bikaner city. Oriental J. of Chemistry Vol 35 No. 4 pp 1448-1452 (2019). ISSN 0970-020 X.
8. Ground water quality assessment for drinking and irrigation in some villages of Sirsa dist. Of Haryana India. J. of Pharmacognosy and Phytochemistry. SP(1) 642-648 2019.
9. Evaluation of water quality index and assessment of suitability of ground water for drinking in Ellanabad city of Haryana India. Pharmacognosy and Phytochemistry Vol 8 No. 2, 361-363 (2019) E- ISSN 2278-4136, P- ISSN 2349-8234.
10. Understanding the hydrochemistry of ground water and its suitability for drinking and irrigation of Ellanabad area of Haryana India. Water Pollution and Control. Vol 2 No. 9 (2019).
11. Suitability Assessment of Groundwater for Irrigation in Some Villages of Sirsa District, Haryana (India). IOP Conference Series: Earth and Environmental Science, ICSEEGST, 2021

### **RESEARCH PAPERS IN SEMINAR AND CONFERENCES:**

1. Comparative study of physicochemical characteristics of ground water of area around Raiser, Bikaner district. Symposium on advances in research on the resources of Bikaner.
2. An electronic spectral investigation on doped Sm(III) ion with some plant hormone in different stereo media. Poster no. 198 page 277, International Conference on Nascent Development in Chemical Sciences (NDCS) opportunities for academic industry collaboration, Oct 16-18 (2015), BITS Pilani.

3. Study on Thermoreversible behaviour of bismaleimide, a biometric approach. Conference on microscopy in material science and bio mimetic technology DMSRDE Kanpur. Feb 26-28, (2015)
4. Physico-Chemical Analysis of Drinking Water of Ellenabad City of Sirsa District Haryana. International Conference on Recent innovations in Sciences, Management, Education and technology. JCD Memorial College, Barnala Road, Sirsa, Haryana (India). August 27, (2016).
5. Assessment of heavy metals in sewage water in different areas around Bikaner city. International conference on recent trends in chemical sciences in Govt. Engineering college, Bikaner. Jan 12-13 Yr. 2017.
6. Ground Water Quality Assessment of the Village of Sirsa District with Respect to Fluoride. International conference on recent innovation in science, agriculture, engineering and management. University college of computer applications Guru Kasha University, Bathinda, Punjab. Nov. 20, (2017).
7. Seasonal variation of heavy metal contamination in water collected from sewage irrigated fields around Bikaner city in year 2016. International workshop and symposium on green chemistry and technology. P.G. Department of Chemistry, Government Dungar College, Bikaner. October 15-17 Yr.2018.
8. Suitability Assessment of Groundwater for Irrigation in Some Villages of Sirsa District, Haryana, India. International workshop and symposium on green chemistry and technology. P.G. Department of Chemistry, Government Dungar College, Bikaner. October 15-17 Yr.2018.
9. On "Evaluation of Chemical Composition and Appraisal of ground water appropriateness for drinking and agricultural practice in rural area near Rania City of Haryana State India" International Conference on Advances in Physical Sciences and material (ICAPSM 2020) held at Coimbatore, Tamil Nadu on 13-14 August, 2020

### **FACULTY DEVELOPMENT PROGRAMME : (e)**

I have participated in FDP Programme on Modern Teaching, Evaluation and Research Methods, from 2 June to 7 June, organized by Vinayakrao Patil Mahavidyalaya, Vaijapur, Dist. Aurangabad.

### **Faculty Training Programme: (e)**

On Virtual Platform for Teaching and learning (VPTL) Coordinator IIIT Kota, held on 27-28 August, 2020.

### **WEBINAR:**

1. Presented a paper in International Webinar on Global Environment Challenges, Biodiversity, Principles of Guru Jambheshwarji and Remedies 3<sup>rd</sup> June to 5<sup>th</sup> June 2020, organised by Jai Narayan Vyas University, Jodhpur. Paper presented: Paryavaran Sankat (Corona Mahamari) Evam Guru Jambheshwarji ke Siddhant.

2. Attended National Webinar in Frontiers in Chemical Sciences (NWFC2020) on 12 June 2020 organised by D.A.V.College, Sriganganagar.
3. Attended 5 Webinar organised by IQAC Cell, Govt. Dungar College Bikaner (From 27/6/2020 to 1/7/2020).
4. Participated in National Webinar on Novel Techniques and Advancements in Chemical and Physical Sciences. Under the aegis of IQAC Dept. of Chemistry, Samrat Prathviraj Chauhan Govt. College Ajmer held on 21 July, 2020.
5. Participated in International Webinar on Radiation Biology On "Radiation Treatment for Covid 19" Deptt. Of Zoology Govt. Dungar College Bikaner held on 12 October, 2020.
6. Presented a paper in International Webinar on Recent Pandemics, Environmental Consequences, Inter-Relationship and Solutions in Jambhani 4<sup>th</sup> June to 5<sup>th</sup> June 2021, organised by Jai Narayan Vyas University, Jodhpur. Paper presented: Vaishvik Mahamaria, Paryavaran Evam Dharm.

#### **WORKSHOP (e):**

1. I have attended National e Workshop on The role of Non Teaching in NAAC Accreditation organised by IQAC, Bapumiya Sirajoddin Patel Arts, Commerce and Science College, Pimplagaon Kale on 29<sup>th</sup> May 2020
2. Participated in International Websymposium on Camel and Disease Control (IWCDC 2021) "Initiative for Research Based Learning Excellence in S&T" organised on 22<sup>nd</sup> June 2021