

# Shri Ratanlal Kanwarlal Patni Government P.G. College Kishangarh

## Faculty Profile

- 1. Name:** Dr. Shema Khan
- 2. Designation:** Associate Professor
- 3. Department:** Chemistry
- 4. Date of First Joining:** 29.11.2002
- 5. Date of Joining in this College:** 01.08.2018
- 6. Educational Qualification:**



Level	Name of University	Year	Title/ Remark/ Medal
B.Sc.	University Of Rajasthan, Jaipur	1995	Ist Division
M.Sc.	M.D.S.University,Ajmer	1997	Ist Division
Ph.D.	M.D.S.University,Ajmer	2009	Awarded

### 7. Experience: Teaching / Research

<b>UG</b>	20 years	<b>PG</b>	20 years	<b>Research</b>	N/A
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### 8. Membership (Academic Bodies/ Research)

- 1) Life Member of Swadeshi Science Movement Of India, New Delhi
- 2) Life Member Of Medicinal and Aromatic Association Of India, Anand, Gujarat
- 3) Annual Member Of AOCS(American Oil Chemists Society),USA
- 4) Member of COC, M.D.S. University, Ajmer (2022-23)

### 9. Awards / Fellowship Received

Awards / Fellowship	Date / Duration
Teacher Research Fellowshi	1 <sup>st</sup> March 2007 to 27 <sup>th</sup> Feb. 2009

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**10. Academic Courses Attended(not less than one week):****Orientation / Refresher / Short Term Course / Faculty Development etc.**

<b>Nature of the Course</b>	<b>Sponsoring Agency</b>	<b>Place</b>	<b>No. of Days</b>
ORIENTATION COURSE	UGC Sponsered & organised by ASC,University of Rajasthan,Jaipur	JAIPUR	28
REFRESHER COURSE in <b>“Chemistry”</b>	UGC Sponsered & organised by ASC,J.N.V.University,Jodhpur	JODHPUR	21
REFRESHER COURSE in <b>“Environment Sciences”</b>	UGC Sponsered & organised by ASC,University of Rajasthan,Jaipur	JAIPUR	21
REFRESHER COURSE in <b>“Computers”</b>	UGC Sponsered & organised by ASC,University of Rajasthan,Jaipur	JAIPUR	21
SHORT TERM COURSE: Faculty Development Programme in <b>“Entrepreneureship”</b>	Organized by Rajasthan Consultancy Organisation Limited, Jaipur, Sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB) & Department Of Science & Technology,Govt. Of India,NewDelhi	DAUSA	15
Faculty Development Programme on <b>“ICT Tools &amp;Technologies for Teaching-Learning Process &amp;Institutes”</b>	Organised by MNIT,Jaipur Sponsored by Ministry of Electronics & Information Technology Govt. of India	Jaipur	03 <sup>rd</sup> -7 <sup>th</sup> Feb.2018 5 Days(3 Credits 40 hours Course) Equivalent to 7 Days
<u>one week</u> State Level <u>Short Term Online</u> Training Course on <b>“Initiatives for Teaching-Learning Excellence in Chemistry”(Gyan Ganga)</b>	Jointly Organised by Commissionerate College Education,Raj. and Govt.Raj Rishi College ,Alwar	Online	25 <sup>th</sup> -to 31 <sup>st</sup> Jan. 2021 7 Days
Online <u>Two week</u> Professional Training Program on <b>“Pedagogy Techniques and Emerging Trends”</b>	Organised by Department of Ceramic Engineering & Technology, University College of Engineering &Technology-Bikaner& Sponsored by TEQIP-III(NPIU-MHRD, Govt.Of India)	Online	01 <sup>st</sup> to 10 <sup>th</sup> Mar.2021 <u>Two week</u>

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Online <u>Two week FDP on “ICT Tools for Teaching, Learning Process &amp; Institute”</u>	Organised by Electronics & ICT Academies ,NIT Patna,MNIT, Jpr,PDPM IIITDM Jabalpur,IIT Guwahati,IIT Kanpur, and IIT Roorkee	Online	15 <sup>th</sup> to 26 <sup>th</sup> Mar. 2021 <u>Two week</u>
Online <u>one week (Flexible Mode)</u> Equivalent to one week Face to face FDP in “ <b>Enhancing Quality of Chemistry Education in India</b> ”.(with ‘A’ Grade)	Guru Angad Dev Training Learning Centre S.G.T.B.Khalsa College, University Of Delhi,Delhi	Online Flexible Mode(Delhi)	25 <sup>th</sup> to 03 <sup>rd</sup> March 2021 <u>One week</u>
Online <u>Two week FDP on “Digital Tools for writing, Authorising and Reviewing Manuscripts”</u>	Jointly Organised by Electronics & ICT Academies IIT Guwahati, NIT Patna, MNIT Jaipur, ,IIT Kanpur ,IIITDM Jabalpur, and IIT Roorkee	Online	12 <sup>th</sup> to 23 <sup>rd</sup> July 2021 <u>Two week</u>
Online <u>Two week FDP</u> Equivalent to Refresher Course in “ <b>Chemical Sciences</b> ” (with ‘B+’ Grade)	Teaching Learning Centre, Ramanujan College,University of Delhi	online	01-15 Feb.2022 <u>Two week</u>

### **11. Seminar/ Conference(where paper Presented):**

S.No.	Name of Symposium/ Seminar/ Conference	International/ National/ Regional	Organized by (With Dates)	Title of Paper presented (Oral and Poster)	Year/ Session
1	“Chemistry Biology Interface: Synergistic New frontiers”	International conference	Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, 21 <sup>st</sup> to 26 <sup>th</sup> November 2004.	“Physico–chemical studies and effect of temperature, air, metal and light: A comparative analysis of various oils”	2004-05
2	“Proceedings of the 41 <sup>st</sup> Annual convention of Chemists”	National Conference	Indian Chemical Society” hosted by University of Delhi-110007, 23 <sup>rd</sup> to 27 <sup>th</sup> December 2004.	“Acoustical studies of Copper (II) soap complexes in non-aqueous media”	2004-05
3	Environmental Degradation and Sustainable Development”	National Conference	P.G. Department of Geography, S.D. Govt. College, Beawar 9 <sup>th</sup> – 11 <sup>th</sup> November, 2005	“Impact of harmful chemicals on internal environment of Human	2005-06

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				Beings”	
4	“Proceedings of the 44 <sup>th</sup> Annual convention of chemists”	National Conference	Indian Chemical Society, hosted by Mahatma Gandhi Institute of Applied Science, Jaipur, 23 <sup>rd</sup> to 27 <sup>th</sup> Dec. 2007.	“Viscometric investigations of complexes of Copper (II) soaps derived from edible oil in benzene”	2007-08
5	“Green Chemistry”	National Conference	Department of Chemistry, Veer Narmad South Gujarat University, Surat, 6 <sup>th</sup> to 8 <sup>th</sup> February 2009.	“Spectroscopic and biocidal studies of Copper (II) soaps and complexes derived from Non-edible oils”	2008-09
6	64 <sup>th</sup> Annual Convention and Oils, Fats, Fuels and Surfactants (ICOFFS 09),	International Conference	Oil Technologists Association of India (NORTHERN ZONE) held at Crowne Plaza, New Delhi, 9 to 11 Dec. 2009.	“Tradition, Sustainability & Technology Comparative overview of Health aspects of Vegetable Oils”	2009-10
7	“Biodiversity of Medicinal and Aromatic Plants: Collection, Characterization and Utilization”	National Conference	MAPAI, Anand Agricultural University, Anand, Gujarat November 24-25, 2010.	‘Value added products synthesized from Neem and Pongamia oils”	2010-11
8	“Recent Advances in Chemical Sciences”	National Symposium	Department of Pure and Applied Chemistry, University of Kota, Kota 7-8 January 2011.	“Spectroscopic and antifungal studies of Cu(II) soaps and complexes derived from non-edible oils”	2010-11
9	“Innovations in oils, fats & allied products towards sustainability & lipids EXPO-2011”	International Conference	Oil Technologists of India (Southern Zone) held at Indian Institute of Chemical Technology, Hyderabad, 18-19th Nov. 2011.	“Value added products from Neem and Pongamia oils ”	2011-12
10	“Heterocyclic Chemistry”	3 <sup>rd</sup> International Conference	Department Of Chemistry, Univ. of Rajasthan, Jaipur, Dec. 10-13, 2011	“Copper-Neem/Pongamia soap-benzothiazole complexes and their anti-fungal activity”	2011-12

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11	"Chemical Sciences in New Millenium, NCCSNM-2012"	National Conference	Department of Chemistry ,Pacific College of Basic & Applied Sciences, Pacific University, Udaipur, 8 Jan 2012	"Design and pharmacological evaluation of some hybrid complexes of Azole series"	2011-12
12	"Promotion of the Science, Engineering & Technology"	National Conference	CSIR-Physical Laboratory and Indian agricultural Research Institute, New Delhi,25-27 Feb.2013	1)Edible oils 2)Pure Desi Ghee	2013-14
13	Green Chemistry - Bridge between Energy & Environment (NCGC Dausa - 2014)	National Conference	Sponsored by UGC, CRO Bhopal & DST, Rajasthan, Organized by Deptt. of Chem. Pt. N.K.S. Govt. P.G. College, Dausa (Rajasthan) 15th-16th, Dec. 2014.	"Green Concrete"	2014-15
14	"Frontiers at the Chemistry - Allied Sciences Interface (FCASI - 2015)	National Conference	Organized by Center of Advanced Study Deptt. of Chemistry, UOR Jaipur March 13-14, 2015	"Copper soaps and their benzothiazole complexes"	2014-15
15	Urban Growth: Environmental Challenges & Responsibilities with Special Reference to Raj.,	National Conference	43rd R.G.A. National Conference, Ajmer Association with Rajasthan Geog. Association, hosted by - Deptt. of Geog. SPC Govt. College, Ajmer 26-28 Oct, 2015	"Need of Diversity of Crops for Sustainable Development with Special Reference of Edible Oil Seeds".	2015-16
16	Globalization New Dimensions for Social Sciences & Information Technology	National Conference	S.S. Sunderdas Govt. Girls College, Dausa (Raj.), Nov. 27-28, 2015.	"Impact of Globalization & IT on Higher Education.	2015-16
17	Sadaa Fifth International Conference on "Cross Cultural	International Conference	held at L.B.S. P.G. College, Jaipur & Sadaa, 22-24 January, 2016	Impact of Information Technology on Literature & Culture	2015-16

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	Comparisons Life & Literature on				
18	52nd Annual Convention of chemists, Indian Chemical Society-2015	National Conference	Held at the JECRC University, Jaipur, Rajasthan Dec. 28-30, 2015.	“Thermal studies..... Soap.....Sesamum indicum)”, (PHY (PP) - 38) in Physical Chemistry Section.	2015-16
19	8th National Conference on Thermo Physical Properties 14-16 Dec, 2015	National Conference	Organized by Deptt. of Physics MNIT, Jaipur under the auspices of Thermo physical Society of India (TPSI)	Analysis of complexes derived from copper (II) Neem Soap (Azadiracta indica) ..... by Thermal Degradation	2015-16
20	Sustainable Engineering Applications of Material Science and Physics - Chemical Innovations (NCSEAM-2016)	National Conference	Organised by SKIT, Management & Jagatpura, Jaipur 26-27 Feb, 2016	“Heating Effect on Edible Oils and applications”.	2015-16
21	Frontiers in Chemical Sciences	National Conference	Pacific Academy of Higher Education and Research University, Udaipur in Association with Indian Chemical Society, Kolkata. 4th October, 2016	Poster Presented on TGA of Copper Soaps	2016-17
22	Frontiers in Chemical Sciences,	National Conference	Pacific Academy of Higher Education and Research University, Udaipur in Association with Indian Chemical Society, Kolkata. 4th October, 2016	Poster Presented on Spectroscopic and microbial analysis	2016-17
23	‘Sustainable Chemical & Material Sciences (SCMS-2016)	National Conference	S.S. Jain Subodh P.G. (Autonomous) College, Jaipur. Sponsored by UGC,	Spectroscopic & Physical Studies..... Antifungal Studies.	2016-17

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			DST, DRDO & BRNS, 5th & 6th Aug, 2016		
24	Climate change and sustainable Development	National Seminar (World Environment Day)	Indira Gandhi Centre for Human Ecology, Environmental and Population Studies, University of Rajasthan, Jaipur, 5 <sup>th</sup> June, 2017	“Control SO <sub>2</sub> Emission for climate change & sustainable Development”	2016-17
25	Recent trends and advances in Environmental issues, awareness and health-2017	National Conference	JECRC, University, Jaipur 17 <sup>th</sup> -18 <sup>th</sup> Nov. 2017	Poster presented on “Viscometric Behaviour....298.15k”	2017-18
26	Forest, Water and Climate Change	National Seminar (International Day of Forest)	Indira Gandhi Centre for Human Ecology, Environmental and Population Studies, University of Rajasthan, Jaipur, 21 <sup>st</sup> March 2018	Paper presented on “Impact of SO <sub>2</sub> Emission by Thermal Power Plants on Climate and Human Health”	2017-18
27	Environmental Conservation and Waste Management: Challenges and Alternatives	National Seminar (World Environment Day)	Indira Gandhi Centre for Human Ecology, Environmental and Population Studies, University of Rajasthan, Jaipur, 5 <sup>th</sup> June 2018	“Antifungal activities of Env. safe Copper Surfactants derived from Neem & Karanj Oils”	2017-18
28	IISF-2017, “Swasth Bharat” Young scientists Enclave	India International Science Festival 2017	Anna University, NIOT, CSIR-CLRI, CSIR-SERC, IIT Madras, 13-16 <sup>th</sup> Oct. 2017	Poster Presented on “Synthesis, Characterization, Degradation of Cu (II) soaps Derived from various oils”	2017-18
29	Instrumentation Techniques for Research in Chemical Sciences	National Workshop	Department Of Chemistry, Kanoria P.G. Mahila Mahavidyalaya, Jaipur, 22-23 Dec., 2017	Poster presented on Volumetric and Viscometric studies of copper surfactant derived from Karanj oil in methanol-benzene mixture at 298.15 K	2017-18

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30	Recent Advances at interfaces of Physical and Life Sciences,RAIPLS-2018	National Conference	Department of Chemistry ,University of Rajasthan ,Jaipur,6-7 July 2018	Poster Presented on" Viscometric evaluation....in Non-aqueous media"	2018-19
31	Advances in Science and Technology –an Interdisciplinary Approach	National Conference	Department of Chemistry, Sophia Girls College, Ajmer(Autonomous), 15th-16th Oct.2018	Poster Presented on "Volumetric and Viscometric studies of Copper Soap derived from non-edible Neem oil in Methanol-Benzene mixture at 298.15k"	2018-19
32	Workshop on interface of Science and Society	National workshop	Held at National Physical Laboratory, Swadeshi Science Movement of India, Vigyan Bharti, New Delhi,14 <sup>th</sup> Dec.2018	Paper presented on "Mustard oil from cold pressed method"	2018-19
33	Frontiers at the Chemistry-Allied Sciences Interface	International Conference	Jointly organized by Department of Chemistry, UOR, Jaipur, Indian Society of Chemists and Biologists: Raj.Chapter, Chemical Research Society of India: RajasthanChapter	TGA of Oils and their soaps	2018-19
34	Multidisciplinary approaches to environmental Research for human health	International Conference	International society of life sciences ,Department of Zoology, University of Rajasthan, Jaipur 22-24 Dec 2021	ANTIFUNGAL BEHAVIOUR OF SOME COPPER (II) SOAPS AND THEIR NITROGEN & SULPHUR CONTAINING COMPLEXES DERIVED FROM ECOFRIENDLY EDIBLE OILS	2021-22
35	Food Nutrition and Dietetics	International Conference (ONLINE)	"Aver Conferences "	Nutrition and Health relationship of Indigenous Traditional Edible oils with special reference to Seasonal, Mustard Groundwater and coconut oils."	2021-22

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36	online “ <b>Chemistry for Sustainable Future</b> ”	National Symposium	Department of Chemistry UOR,Jaipur 16.2.2022	Synthesis, Characterization, and Thermo Gravimetric Analysis of Cu (II) Surfactants for Sustainable Environment	2021-22
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## 12. Organizing Sec./Convener / Resource Person:

Conference/Seminar/ webinar	Year/ Session	Level (State / National/ International)
Webinar -Organizing Secretary	2020-21	“One Day Webinar on healthy Food-Chemical Aspects”
Webinar-Resource Person	2020-21	“One Day Webinar on Chemistry in Day to Day Life”, Organised by B.B.D.Government College, Chimanpura, Shahpura

## 13. Research Publications:

S.No	Title of Paper / Book	Name of Journal with Impact factor & ISSN / ISBN No.	Volume and Page No. with Year	Citation Index; <b>Impact Factor;</b> <b>Google Index</b>
1	<b>Chapter</b> “Health aspects of traditionally processed Indigenous Edible oils”	Book “Recent progress in Medicinal Plants”, Natural Products, Studium Press,L.L.C., U.S.A.,	Volume 18, (2007), PP (429-435)	ISBN: <u>1-9336990-8-6</u> Record Number 2008311577
2	<b>Chapter</b> “Biomedical waste (Management and handling)”	Book“Global Environment-Issues and problems” L.G. Publishers Distributers,New Delhi	(2012), PP(99-113)	ISBN:978-81-910382-1-7
3	<b>Chapter</b> “Environmental friendly biocidal activity of Copper surfactants derived from Non-Edible oils (i.e. Neem and Karanj) and their benzothiazole complexes”	Book“Global Environment-Issues and problems” L.G. Publishers Distributers,New Delhi	(2012), PP(119-125)	ISBN:978-81-910382-1-7

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4	"Acoustic studies and other acoustic parameters of Cu (II) soap derived from non-edible Neem oil ( <i>Azadirachta indica</i> ), in non-aqueous media at 298.15 K."	<b>Acta Acustica united with Acustica</b>	104.2 (2018): 277-283.	28; <b>0.762</b> ; <a href="https://doi.org/10.3813/AAA.919170">https://doi.org/10.3813/AAA.919170</a>
5	"Antifungal activities of copper surfactants derived from neem ( <i>Azadirachta Indica</i> ) and Karanj ( <i>Pongamia pinnata</i> ) oils: A pharmaceutical application"	<b>Global Journal of Pharmacy &amp; Pharmaceutical Sciences</b>	3.4 (2017): 82-87.	23; <b>3.24</b> ; <a href="https://ideas.repec.org/a/adp/jgjpps/v3y2017i4p82-87">https://ideas.repec.org/a/adp/jgjpps/v3y2017i4p82-87</a>
6	"Viscometric evaluation and micellar properties of Cu (II) Soap derived from neem oil in non-aqueous media."	<b>Current Physical Chemistry, Bentham Science Publications</b>	8.3 (2018): 164-174.	05;  <a href="https://doi.org/10.2174/1877946808666181102151911">https://doi.org/10.2174/1877946808666181102151911</a>
7	"Volumetric and viscometric studies of copper surfactant derived from Karanj ( <i>Pongamia pinnata</i> ) oil in methanol-benzene mixture at 298.15 K."	<b>Journal of Physical Science,</b>	30.2 (2019): 51-68.	
8	"Micellar and viscometric properties of some bioactive copper soaps derived from karanj oil in non-polar solvent."	<b>Bulletin Of Pure and Applied Chemistry</b>	(Vol.30, Issue 1)(2020): 1-13	<b>5.294</b> <a href="https://doi.org/10.5958/2320-320X.2020.00001.1">10.5958/2320-320X.2020.00001.1</a>
9	"Micellar behaviour of copper surfactants derived from fresh (Untreated) sesame oil and used (treated at high temperature) sesame oil."	<b>Tenside Surfactants Detergents Munich ,Germany</b>	47.2 (2010): 106-112	<b>06</b> ; <b>0.560</b> ; <a href="https://doi.org/10.3139/113.110059">https://doi.org/10.3139/113.110059</a>
10	"Synthesis, Characterization and Antifungal Activities of Copper (II) Soaps and their Complexes Derived from <i>Azadirachta Indica</i> (Neem) and <i>Pongamia Pinnata</i>	<b>Tenside Surfactants Detergents Munich ,Germany</b>	46.3 (2009): 145-151.	06; <b>0.560</b> ; <a href="https://doi.org/10.3139/113.110017">https://doi.org/10.3139/113.110017</a>

	(Karanj) Oil."			
11	BOOK " <i>Cu Surfactants derived from non-edible oils: Bio-chemical aspects.</i> "	LAP LAMBERT Academic Publishing, Omniscritum S.R.L.	Published : 15 Aug 2017	02; ISBN13 9786202000 017

**14. Research Projects:**

Title of the Project	Year / Session	Name of funding agency	Fund available/ utilized	Present status
N/A	N/A	N/A	N/A	N/A

**15. Research Supervision: Research Guide in University Of Rajasthan, Jaipur.**

**Applied for Research Guide in M.D.S.University,Ajmer**

Name of Student	Ph.D. / M.Phil.	Title of thesis	Present status	Date and Year of Award, if so
N/A	N/A	N/A	N/A	N/A

**16. Any Other Relevant Information/Contributions/Achievements:**

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