

Dr. Anu Sharma

Assistant Professor
Department Of Chemistry
Govt. College of Engineering & Technology, Bikaner

44, Bank Street
New Shivbari Road
Bikaner
Phone No. 0151-2231276

- Objective**
- To Keep oneself up-to date in the development of the subject.
 - To impart the latest information to the students on the subject and to enlighten them for progressing in the subject.

- Experience**
- **August 2002 – July 2004**, Govt. Engineering College, Bikaner.
 - **August 2004 – July 2007**, M.N. Institute of Applied Science, Bikaner.
 - **August 2007 – June 2008**, Govt. College of Engineering & Technology, Bikaner.
 - **1st July 2008 Appointed as Assistant Professor** in Chemistry at Govt. College of Engineering & Technology, Bikaner.

Education **2002** MDS University Ajmer

- PHD in Chemistry.

Thesis submitted in Dec. 2002, Degree awarded in Dec. 2003.

- Thesis title “Spectroscopic and Thermodynamic studies on Lanthanone (III) metal chelates of some Bio-active ligands”

1997 MDS University Ajmer

- M. Phil in Chemistry 70%

1996 MDS University Ajmer

- M. Sc in Chemistry 68%

Interests Teaching (To make the subject as interesting as possible), Gardening.

(I) .List of Attended Programmes

{A} Conferences (05)

- 1) International Conference on “Condensed Matter and Applied Physics” Held at Govt. Engineering College Bikaner **dated 30th -31st Oct., 2015.**
- 2) National conferences on “Recent Trends in Engineering & Applied Sciences” held at Manda Institute of technology, Bikaner dated **March 20th-21st, 2015.**
- 3) International conferences on “Advances innovation in Management, Science & Technology” organized by Jenith Infotech, dated **November 16th-, 2013.**
- 4) International conferences on “Advances in Ecological Research” held at Maharaja Ganga Singh University, Bikaner, dated **December 19th-21st, 2011.**
- 5) National conferences on “Renewable Energy: Future Savior of the World” held at SKIT, Jaipur, dated **May 7th-8th , 2010.**

{B} National Seminar (05)

- 1) National seminar on “Current Trends in Environmental Research” held at Maharaja Ganga Singh University, Bikaner dated **Feb. 28th- March 02nd, 2015.**
- 2) Symposium On “Advances in Research on the Resources of Bikaner” Held at Govt. Dungar College, Bikaner dated **February 24th, 2015.**
- 3) National seminar on “Intellectual Property Rights”, organized by Govt. College of Engineering & Technology, Bikaner, dated **Feb. 09th, 2013.**
- 4) National seminar on “Recent Trends in nuclear sciences”, organized by university of Bikaner, dated **Jan 19th, 2008.**
- 5) All India seminars on “Advances in Botanical, Biotechnological & micro biological Research in India during last decade (1996-2006)” dated **Dec 26th -28th, 2006.**

{C} State Level Teacher Science Congress (01)

- 1) State level Science Congress Organized by Department Of Science & Technology, Govt. of Raj., Bikaner On **Nov., 10th, 2010** held at Science Centre, Bikaner.

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{D} Work Shops (12)

- 1) On “Nanomaterials” Held at Govt. Engineering College Bikaner **dated 19th -20th Oct., 2015.**
- 2) On “Computer Operating and Application of Internet for E Commerce”, Organized by DST, Bikaner held at Govt. College of Engineering & Technology, Bikaner, **Feb. 11th -21th, 2013.**
- 3) On “Promotion of Women Consultants in India” organized by NITCON & CDC, New Delhi, dated **March 13th, 2013**, Held at Govt. Dungar College, Bikaner.
- 4) On, “PLCs and SCADA”, **Sep 20th, 2012** organized by Sofcon India Pvt. Ltd., Noida.
- 5) On “Research Methodology”, **May 4th -5th, 2011**, Organized by Govt. CET, Bikaner & Institute of Agri Business Management, SKRAU, Bikaner.
- 6) On “Patent Awareness”, **Feb. 25th, 2011**, organized by DST, Bikaner.
- 7) On” Green Chemistry Education: Necessity of a Sustainable Future”, **Nov. 20th, 2010**, University of Delhi, Delhi.
- 8) Du-Neri (AN) workshop on Atmospheric Science and climate change at University of Delhi dated **February 27th – 28th, 2009.**
- 9) National Workshop on “Awareness Program on Food Safety & Quality” at Basant Vihar, **Feb. 13th, 2009.** Organized by “Quality Council of India”.
- 10) On “Water Resources Development and Management (ICWRDM-2008) **October 25-26th, 2008**, BITS, Pilani.
- 11) On “Microwave Sciences”, Organized By Department of Electronics and Communication, Engineering College, Bikaner, **April 20th, 2008.**
- 12) Institute of Computational Biology, Bangalore in collaboration with Dungar College, Bikaner dated **Jan .20th - 21st, 2008.**

{E} Entrepreneurship Awareness Camp (01)

1) Entrepreneurship Awareness Camp, **Aug.28- 31st, 2012**, organized in GCET, Bikaner.

{F} Short Term Course (STC)/Short term & training Programme (STTP) (16)

- 1) AICTE recognized STC on “Instructional Planning and Delivery (Module II Instructional Delivery)” Through ICT sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner during **January 19th-23rd, 2015**.
- 2) AICTE recognized STC on “Instructional Planning and Delivery (Induction Training Program)” Through ICT sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner during **January 5th-9th, 2015**.
- 3) AICTE recognized STC on “Climate Change, Disaster management & Sustainable Management” Through ICT sponsored by NITTTR, Chandigarh held at Govt. Engineering College, Bikaner during **November 17th-21st, 2014**.
- 4) AICTE recognized STC on “Renewable Energy Based technologies” Through ICT sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner during **August 25th-29th, 2014**.
- 5) AICTE recognized STC on “Instructional Planning & Delivery” Through ICT sponsored by NITTTR, Chandigarh held at ECB Polytechnic, Bikaner during **May 5th-9th, 2014**
- 6) AICTE recognized STC on “Cyber Security Measures” Through ICT sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner during **March 24th-28th, 2014**.
- 7) STTP on “Organizational Practices for Engineers and Managers” sponsored by TEQIP II held at Govt. College of Engineering & Technology, Bikaner during **January 07th -11th, 2014**.
- 8) AICTE recognized STC on “Soft Computing” Through ICT sponsored by NITTTR, Chandigarh held at Govt. Engineering College, Bikaner during **November 11th-15th, 2013**.

- 9) AICTE recognized STC on “Electrical, Electronics & Computer Engineering based Projects” sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner during **April 08th-12th, 2013**.

- 10) STTP on “Instrumental Methods of Chemical Analysis” Sponsored by ISTE held at Govt. Engineering college Bikaner during **Feb. 13-17th, 2012**.

- 11) STTP on “Developing Generic Skills” sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner, from **Sep.12th-16th, 2011**.

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12) STTP On “Environmental Protection for sustainable Development” sponsored by NITTTR, Chandigarh held at Govt. College of Engineering & Technology, Bikaner, from **March 22nd-26th, 2010.**

13) STTP On “Bio fuel as an Alternate automobile fuel” sponsored by AICTE-ISTE New Delhi held at Engineering College Bikaner, from **May 05th-09th, 2008.**

14) STTP on Communication Skills organized by “National Institute of Technical teacher’s Training and Research” held at Govt. Engineering college Bikaner dated **Jan. 28th to Feb. 1st, 2008.**

15) STTP On Mechatronics, organized by “ National Institute to Technical Teacher’s Training and Research” Dated **Oct. 21st -25th, 2007.**

16) STTP on Automation Techniques organized by “National Institute of Technical teacher’s Training and Research” held at Govt. Engineering college Bikaner, dated **Oct. 8th - 12th, 2007.**

{G} Faculty Development Program (01)

1) On Entrepreneurship Development Sponsored by Entrepreneurship Development Institute of India, Ahmadabad ,Department of Science & Technology, Govt. of India During **September 15th-27th, 2008.**

{H} Staff Development Program (02)

1) On Technological Waste – A potential threat to survival **Nov. 16th-28th, 2009**, Engineering College Bikaner, Raj.

2) On “Biodiesel Alternative Fuel for Future Fuel” Sponsored by AICTE held at College of Engineering and Technology, Bikaner, **May 12th-23th, 2008.**

(II). List of Papers Presented in Conferences and Seminars

{A} Conferences (16)

- 1.) On "Scope of Coordination compound of Lanthanum (III) ions with some bioactive ligands in Biomedical Science" Paper accepted for poster presentation in "International conferences on Interface of chemistry and Biology in Bio-medical Research" dated **Feb. 22nd -24th, 2008** Held at BITS, Pilani, P. No. 129.
- 2.) On "Ground water resources, its flow and transport mechanism" Paper accepted for poster presentation in International Conferences on Ground Water Dynamic and Climate Change dated **March 19th - 22nd, 2008** held at University of Rajasthan, Jaipur, P. No. 278
- 3.) On "Emission Reduction & Alternate future" in "National Conferences on Recent Advances in Chemical Sciences", **Oct. 3rd-5th, 2008** held at Govt. Dungar College, Bikaner (Raj.).
- 4.) On "Statistical Studies on the Ground Water quality in rural areas around Karni Industrial Zone Bikaner", "International Convention on Water Resources Development and Management (ICWRDM-2008) **Oct. 23-26, 2008**, BITS, Pilani, P. No. 39.
- 5.) On "Bio Diesel & Its Environmental Effect", National Conference on Energy & Nanotechnology: Strategy for the Future (NCENSF - 09) **February 14th-15th, 2009**, held at Jaipur Engineering College, Kukas (Raj.).
- 6.) On "Statistical assessment of underground water quality in rural areas of Bikaner district" at 13th ISCB International Conference on Interplay of Chemical and Biological Sciences: Impact on Health and Environment, dated **February 26th – March 1st, 2009** at university of Delhi, Delhi - 110007 P.P. 105
- 7.) On "Solar Energy: An Overview" in "National conference of Energy management" dated **Nov. 20th-21st, 2009**, Engineering College, Bikaner Raj.
- 8.) On "pH metric and thermodynamic studies of rare earth metal Ion (III) complexes derived from Schiff bases in dioxane-water medium And their microbial studies" Paper accepted for poster presentation in 14th ISCB International conferences on Chemical Biology for Discovery: Perspectives and Challenges" held at CDRI Lucknow, dated **Jan. 15th -18th, 2010**.

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9.) On “Nanotechnology: The Next Revolution” Paper accepted for poster presentation in National conferences on Emerging Technologies & Application held at BMIT,Jaipur,dated **6th Feb., 2010**.

10.) On “Geothermal Energy: An Overview” Paper accepted for oral presentation in “National conferences On Advances on “Materials and devices for Renewable Energy Sources Held at JEC Kukas, Jaipur” dated **Feb. 25th-27th, 2010**.

11.) On Biogas Energy: “A Substitute of conventional Energy” Paper accepted for oral presentation in National Conference on “New Opportunities and development in Renewable Energy Sources” dated **20th-21st March, 2010** held at RIET, Jaipur.

12.) On “Natural Resources and Sustainable Agriculture”. International Conferences on Agriculture, foods Science& Environmental Technology for Sustainable Global development on **Oct.28-29, 2012** held at Jawaharlal Nehru University, New Delhi, organized by Krishi Sanskrity.

13.) On “Air Pollution and Human Health” Paper accepted for oral presentation in DST sponsored National Conference on “New dimensions in Green Technology for Sustainable Development” dated **21st-22nd February, 2014** held at SKIT, Jaipur.

14.) On “Water Pollution and Assessment of Water treatment Technology” Paper accepted for oral presentation in National Conference on “Energy and Environmental Engineering” dated **April 26th-27th, 2014** held at SKIT, Jaipur.

15) Paper presented on “Electro-Ceramics” during National conferences on “Recent Trends in Engineering & Applied Sciences” held at Manda Institute of technology, Bikaner dated **March 20th-21st, 2015**.

16) Paper presented on “Clinical Application of Bioceramics” during International conferences on “Condensed Matter and Applied Physics” Held at Govt. Engineering College Bikaner **dated 30th -31st Oct., 2015**.

{B} National Seminar (05)

1.) On “spectrophotometer Investigation of coordination compounds of lanthanum using computer software”. National seminar on “Bioinformatics & computer Applications” Dated **Nov. 26th -27th, 2006** held at M.N.Institute of Applied Sciences, Bikaner.

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2.) On “Ironing can reduced the Global Warming” National Symposium Global Warming- The Burning issue (GLOWAR-08), Dated **March 5th, 2008**, held at Engineering College, Bikaner.

3.) On“Biofuel; - A safe journey to future” Paper accepted for poster presentation in National Symposium on Emerging Trends in Advanced Chemistry (ETAC-2008)dated **March 8th -10th, 2008** held at University of Rajasthan, Jaipur.

4) All India seminar on “Pollution Prevention through Development of Bio based Material and Energy”, held at MNIT, Jaipur, dated **Feb. 22nd -23rd, 2013**.

5) Paper presented on “Mineral Resource Management” During Symposium On “Advances in Research on the Resources of Bikaner” Held at Govt. Dungar College, Bikaner dated **February 24th, 2015**.

(III). Published papers in Journals

S.No.	Title with Page Nos.	Journal	ISSN/ISBN No.	Whether peer reviewed, impact factor, if any	No. of coauthors	Whether you are the main author
1.	" pH-Metric and Thermodynamic studies on metal chelates of Al (III), Cr (III) & Fe (III) Ions with tridentate Biprotic ligands". Vol. 12, No. 2, 615 (2000)	Asian J. Chem.	ISSN No.=0970-7077	00.27	01	Yes
2.	"Stability Constants and Thermodynamic functions of La (III), Pr (III), Nd (III), Sm (III), Gd (III), Dy (III), Ho (III), &Er (III) metal-Ion complexes with some Tridentate Biprotic ligands. Vol. 19, No. 1 (2003)	Oriental J. Chem.	ISSN No.=0970 020X	H Index: 5	03	Yes
3.	"Electronic Spectral studies of some Schiff Base chelates of Pr (III), and Nd(III) metal-Ion in terms of Energy and Intensity parameters". Vol. 15, No. 2 (2003)	Asian J. Chem.	ISSN No.=0970-7077	00.27	03	Yes
4.	"Studies on Intensity of $f \leftrightarrow f$ transition in Sm (III),	Asian J. Chem.	ISSN No.=0970-7077	00.27	03	Yes

	Ho (III), & Er (III) with Schiff Bases". Vol. 15, No. 2 (2003)					
5.	" pH-metric and thermodynamic studies on metal-chelates of the lanthanum (III) ions with tridentate Biprotic Ligands.Vol.XXIXC,No.2 ,091(2003)	Acta Ciencia Indica	ISSN No.=0253-732X	-	03	Yes
6.	"Stability Constants and Thermodynamic Parameters of Schiff Bases With rare earth trivalent ions." Vol. 15, No. 2 (2003).	Oriental J. Chem.	ISSN No.=0970 020X	H Index: 5	03	No
7.	"Oscillator Strength and Intensity Parameters of Sm (III), Ho (III), & Er (III) metal complexes with some Schiff Base ligand". Vol. 15, No. 2 (2003)	Asian J. Chem.	ISSN No.=0970-7077	00.27	03	No
8.	"Absorption Spectral studies on Pr (III) and Nd (III) metal complexes with Schiff Base ligand in dioxane water media". Vol. 15, No. 2 (2003)	Asian J. Chem.	ISSN No.=0970-7077	00.27	03	No
9.	"Complexation thermodynamic of Rare Earth metal Ion (III) complexes Derived from Schiff Bases in Dioxane-	Acta Ciencia Indica	ISSN No.=0253-732X	-	03	No

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	water medium". Vol.XXIXC,No.2,091(20 03)					
10.	"Natural Resources And Sustainable Agriculture". Vol. 3, No. 5 (2012).	International Journal Of Environmental Engineering and Managements	ISSN No.=2231- 1319	(iv) H Index: 11	02	Yes

(IV). Published books

S. No	Title with Page Nos.	Book, Title, editor & publisher	ISSN/ISBN No.	Whether peer reviewed	No. of coauthors	Whether you are the main author
1.	Engineering Chemistry-I	A text book of Engineering Chemistry-I for B.Tech 1 st sem. VPD, Jaipur (First Edition 2009)	(ISBN-9789380205076)	Yes	03	Yes
2.	Practical Engineering Chemistry-I	A Lab Manual of Practical Engineering Chemistry-I for B.Tech 1 st sem. (1 st Yr.), VPD, Jaipur, (First Edition 2009)	(ISBN-9789380205083)	Yes	02	Yes
3.	Environmental Engineering & Disaster Management	A text book of Environmental Engineering & Disaster Management for B.Tech 1 st yr. Students Genius Publication, Jaipur (First Edition 2010)	(ISBN-9789380311265)	Yes	01	Yes
4.	Engineering Chemistry -I with Lab Manual	A text book of Engineering Chemistry-I with Lab Manual for B.Tech 1 st sem. (1 st Yr.) Students, VPD, Jaipur Second Edition 2011)	(ISBN-9789380205038)	Yes	02	Yes
5.	Environmental	A text book of Environmental Engineering for B.Tech 1 st yr.	-	Yes	01	Yes

	Engineeri- -ng	Students First Alka Publication, Ajmer ,(First Edition 2009)				
6.	Engineeri ng Chemistry -II	A text book of Engineering Chemistry-II for B.Tech II nd sem. For (I st Yr.)Students,VPD, Jaipur, (First Edition 2010)	-	Yes	03	Yes
7.	Environm ental Engineeri ng & Disaster Managem ent	A text book of Environmental Engineering & Disaster Management for ,B.Tech I st yr. Students Alka Publication, Ajmer.(First Edition 2010)	-	Yes	01	Yes
8.	Practical Engineeri ng Chemistry -II	A Lab Manual of Practical Engineering Chemistry-II for B.Tech II nd sem., (I st Yr.)Students VPD, Jaipur) (First Edition 2010	-	Yes	03	Yes
9.	Engineeri ng Chemistry -II with Lab Manual	A text book of Engineering Chemistry-II with Lab Manual for B.Tech II nd ,sem. (I st Yr.)Students VPD, Jaipur (Second Edition 2011)	-	Yes	02	Yes
10.	Engineeri ng Chemistry -I with Lab Manual	A text book of Engineering Chemistry-I with Lab Manual for B.Tech I st ,,sem. (I st Yr.)Students ,JP, Jaipur (Second Edition 2012)	-	Yes	01	Yes
11.	Chemistry & Environm ental Engineeri ng with Lab	A text book of Chemistry & Environmental Engineering with Lab Manual for B.Tech II nd ,,sem. (I st Yr.)Students ,VPD, Jaipur (Second Edition 2012)	(ISBN- 9789380205052)	Yes	01	Yes

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	Manual					
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(V). Full papers in Conference proceedings

S.No.	Title with Page Nos.	Details of Conference Publication	ISSN/ISBN No.	No. of coauthors	Whether you are the main author
1.	Study of Water Quality Parameters, Its Pollution Control and Management, National seminar on integrated water Management and sustainable water pricing, 8-9 feb, 2008, P.No. 165-168.	Editorial book, National Seminar on Integrated Water Management and Sustainable Water Pricing, 8-9 Feb, 2008.	-	01	Yes
2.	"Natural Resources And Sustainable Agriculture". Vol. 3, No. 5 (2012).	International Journal Of Environmental Engineering and Managements RPI,publication	ISSN No.=2231-1319	02	Yes

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(VI). Research Projects Completed

S.No.	Title	Agency	Period	Grant/Amount Mobilized (Rs. Lakh)
1.	Manufacturing of Ferrites(magnets)& their application on toys	DST, Govt. Of Rajasthan, Jaipur	2010	10,000/-