



Janta College Bakewar, Etawah (U.P)

Accredited B Grade By NAAC

Affiliated to C.S.J.M. University, Kanpur (U.P)

**Department of Chemistry
&
Industrial Chemistry**

**Welcome
NAAC PEER TEAM**

Janta College Bakewar

Since 1959



Faculty Profile

1. Name: Dr. Jyoti Bhadauria

Qualification: M.Sc., Ph.D

Designation: Head & Assistant Professor

Experience: 21 Years

No. of books published: 04

No. of Seminar and webinar attended: 20

No. of Webinar Organized: 04

Paper Published in national / international Journal: 06

No. of Award: 05

No. of O.P/R.C./FDP: 20

3. Name: Er.Ajit Pratap Agnihotri

Qualification: M.Sc.(Industrial Chemistry), M.Tech

Designation: Assistant Professor (S.F)

Experience: 12 Years

No. of Seminar and webinar attended: 10

Paper Published in national / international Journal: 03

Post details

No. of post	Filled posts	Vacant posts
7	2	5

2. Name: Dr. Naveen Awasthi

Qualification: M.Sc., CSIR(NET)-5 Times qualified, GATE (IIT)-2 Times qualified ,Ph.D

Designation: Assistant Professor

Experience: 5 Years

Paper Published in national / international Journal: 22

No. of Citations-143, h-Index-6 (Research Gate)

No. of books Chapter published: 06

No. of books published: 01

No. of Seminar and webinar attended: 10

No. of Webinar & Work shop organized: 04

No. of Award: 01

Patent Publication:01

No. of O.P/R.C./FDP: 12

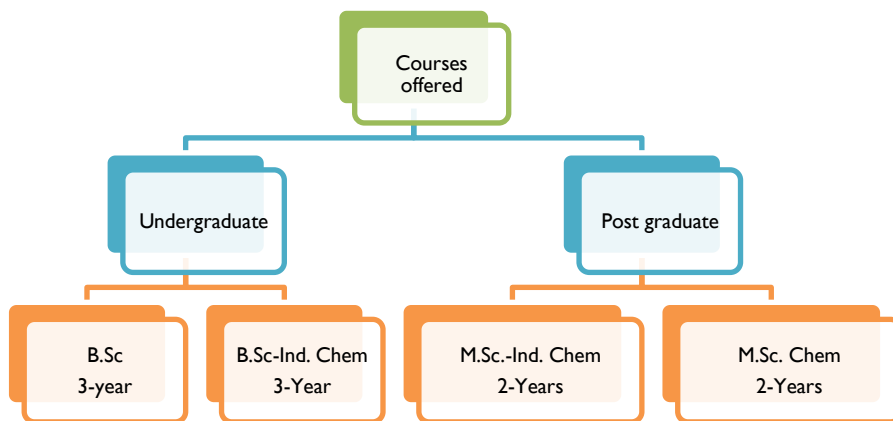
Supporting Staff

Sr. No	Name	Designation
1	Mr. Kuldeep Awasthi	Lab Assistant
2	Mr. Sunil Shukla	Lab Attendant
3	Mr. Rishi Raj	Lab Attendant

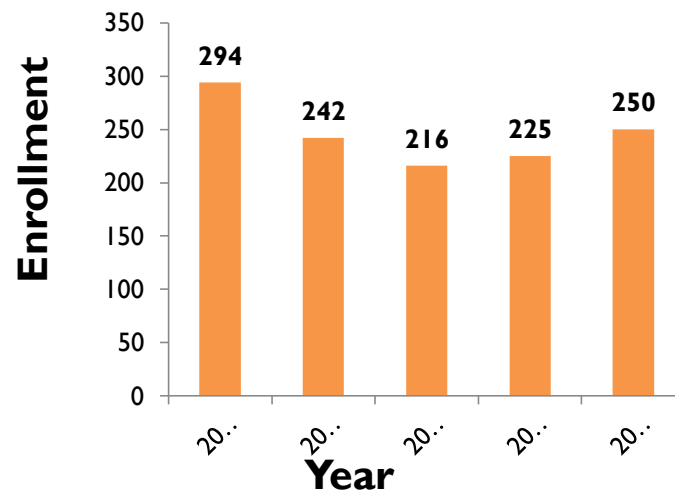
Infrastructure

I.	No. of Labs	03
	(a) U.G Lab	02
	(b) P.G Lab	01
2.	Departmental Library	01
3.	Research Room	01

Courses offered



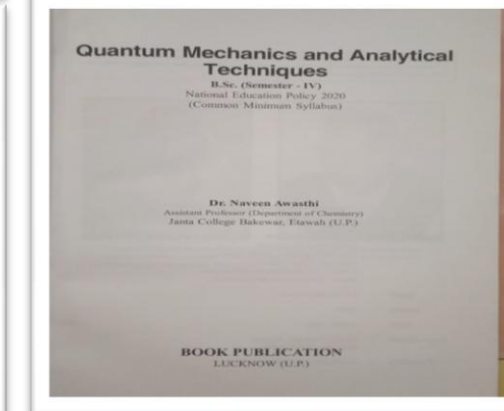
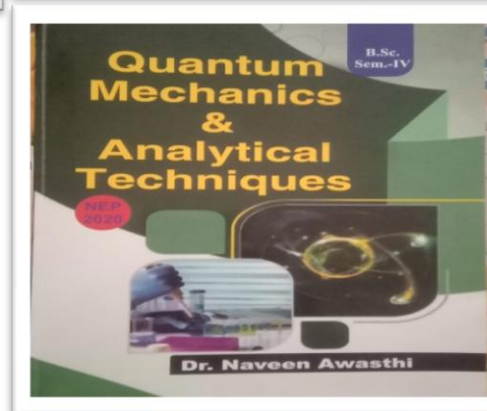
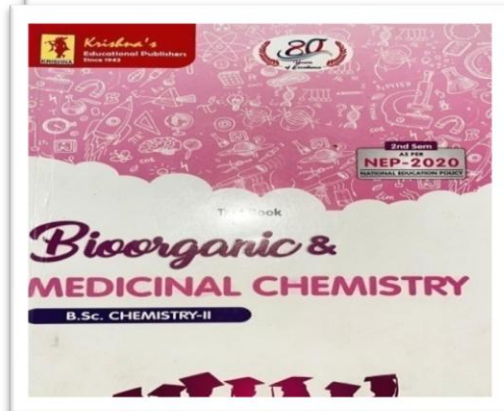
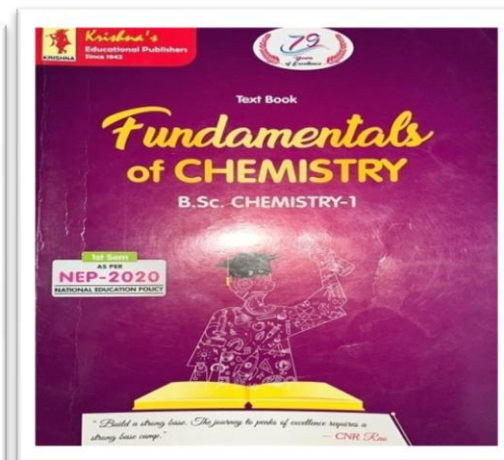
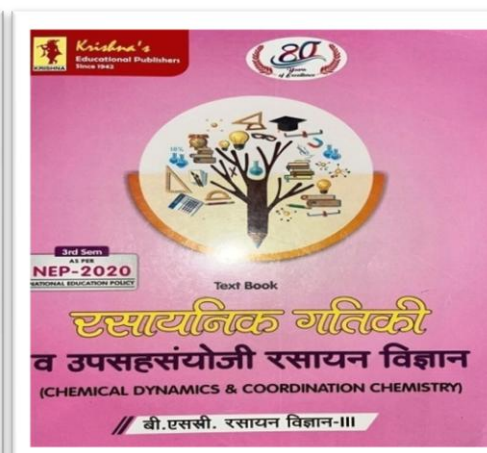
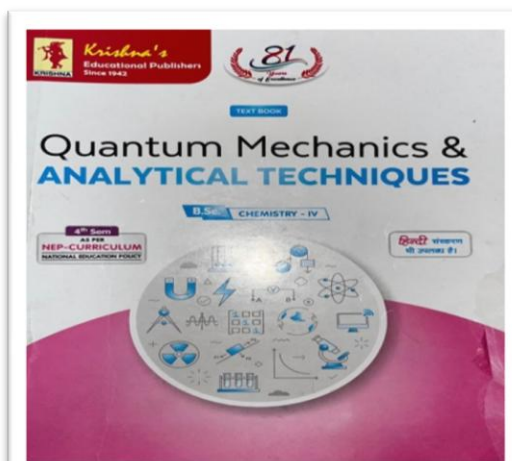
Enrollments of U.G Students



Faculty Achievements

BOOKS	BOOK CHAPTER	AWARD	RESEARCH PAPER
05	06	06	20

Book' Published



Research papers

1. Intermolecular molecular interaction and excess refractive indices of binary liquid mixture from 298.15-323.15K: correlation and modelling, **International Journal of current advance research**, 12(10), 2542-2546, (October) 2023.
 - <https://www.journalijcar.org/issues/intermolecular-interactions-and-excess-refractive-indices-binary-liquid-mixture-29815-32315k>
2. Physicochemical study of a binary liquid mixture by ultrasonic speed, isentropic compressibility and acoustic impedance from 288.15-318.15K, **Research Journal of chemical sciences**, 13(1), 46-59, (Feb) 2023.
 - <http://www.isca.me/rjcs/Archives/v13/i1/6.ISCA-RJCS-2022-015.php>
3. Estimation of acoustic impedance of binary liquid system from 288.15 to 318.15K by associated and non-associated process, **Research Journal of physical sciences**, 11(1), 8-13, (Feb) 2023.
 - http://www.isca.me/PHY_SCI/Archive/v11/i1/2.ISCA-RJPS-2022-002.php
4. Prediction of molecular interactions based on theoretical evaluation of ultrasonic velocity and excess acoustical parameters from 288.15-318.15K, **International journal of engineering applied science and technology**, 7(4), 192-199, (Aug) 2022.
 - <https://doi.org/10.33564/IJEAST.2022.v07i04.031>
5. Estimation of physicochemical properties of Acetonitrile and Formamide from 293.15-313.15K, **Research Journal of chemical sciences**, 12(2), 46-52, (June) 2022.
 - <http://www.isca.me/rjcs/Archives/v12/i2/7.ISCA-RJCS-2021-042.php>
6. Viscosity and Excess viscosity for non-polar system from 298.15 to 323.15K, **Research Journal of Recent sciences**, 11(2), 23-33, (April) 2022.
 - <https://www.isca.me/rjrs/archive/v11/i2/4.ISCA-RJRS-2021-012.pdf>
7. Estimation of heat capacity of isomeric alcohols with long chain saturated hydrocarbon by liquid state models from 288.25-318.15K, **International research journal of modernization in engineering technology and science**, 4(1), 354-259, 2022.
 - https://www.irjmets.com/uploadedfiles/paper/issue_1_january_2022/18262/final/fin_irjmets1641807171.pdf
8. Prediction of molecular interactions in binary system from 288.15 to 318.15K by ultrasonic speed and isentropic compressibility. **Research journal of Pharmaceutical, Biological and Chemical science** 12(6), 19-27, 2021.
 - [https://www.rjpbcs.com/pdf/2021_12\(6\)/\[3\].pdf](https://www.rjpbcs.com/pdf/2021_12(6)/[3].pdf)
9. Theoretical interpretation of excess volume and refractive index of non-polar mixture from 298.15-323.15K. **International research journal of modernization in engineering technology and science**, 3(11), 1045-1052, 2021.
 - https://www.irjmets.com/uploadedfiles/paper/volume_3/issue_11_november_2021/17285/final/fin_irjmets1637846941.pdf
10. Mathematical correlation of thermo-physical properties for Acetonitrile + DMF from 293.15-313.15 K by Jouyban Acree model. **International journal of engineering applied science and technology**, 6(6), 119-123, 2021.
 - <https://www.ijeast.com/papers/119-123.Tesma606.IJEAST.pdf>

National webinar Computer Application in Chemistry

National Webinar
on
Computer applications in Chemistry
Organized by
Department of Chemistry, Janta College, Bakewar (Etawah)
13 Janaury. 2021
Key Note Speaker - **Dr. Atul Kumar**
HOD & Associate Professor
Department of Basic Sciences & Humanities
P.S.I.T., Kanpur U.P.

Dr. Nalini Shukla Patron
Dr. Naveen Awasthi Convenor
Dr. Jyoti Bhadauriya Organising Secretary

National Webinar
On
Computer Applications in Chemistry
Dated - 13 Jan. 2021
Organized by: Deptt. of Chemistry, Janta Collge, Bakewar

- Welcome Note By Convenor : Dr. Naveen Awasthi 12:00-12:05 PM
- Introduction of Webinar by Patron : Dr. Nalini Shukla 12:06-12:10 PM
- Introduction of Key Note Speaker : Dr. Prakash Dubey 12:11-12:15 PM
- Key Note Address by : Dr. Atul Kumar 12:16-12:45 PM
- Questionnaire Session : Participants 12:46-12:50 PM
- Vote of Thanks by Organising Secretary : Dr. Jyoti Bhadauriya 12:51-01:00PM

N. Shukla
08-01-2021
Patron
Dept. of Chemistry
Janta College, Bakewar

Dr. Naveen Awasthi
Convenor
Dept. of Chemistry & Ind. Chemistry
Janta College, Bakewar (Etawah)

National Webinar Green Chemistry

National Webinar
on
Green Chemistry
Organized by
Department of Chemistry, Janta College, Bakewar (Etawah)
Dated on → **23 Dec. 2020**
Key Note Speaker - **Dr. Abhishek Upadhyay**
Asst. Professor, Department of Chemistry
B.S.N.V. Post Graduate College, Lucknow

Dr. Nalini Shukla Patron
Dr. Rajesh Chandra Verma Convenor
Dr. Jyoti Bhadauria & Dr. Naveen Awasthi Organising Secretaries

National Webinar
On
Green Chemistry
Dated - 23 Dec. 2020
Organized by: Deptt. of Chemistry, Janta Collge, Bakewar

- Welcome Note By Convenor : Dr. R.C. Verma 12:00-12:05 PM
- Introduction of Webinar by Patron : Dr. Nalini Shukla 12:06-12:10 PM
- Introduction of Key Note Speaker by ChairPerson : Dr. D.J. Mishra 12:11-12:15 PM
- Key Note Address by : Dr. Abhishek Upedhayay 12:16-12:45 PM
- Discussion by : Participants 12:46-12:50 PM
- Vote of Thanks by Organising Secretary : Dr. Naveen Awasthi 12:51-01:00PM

R.C. Verma
Head
Dept. of Chemistry & Ind. Chemistry
Janta College, Bakewar (Etawah)

N. Shukla
23-12-2020
Patron
Dept. of Chemistry
Janta College, Bakewar

Lectures on smart board



P.G Library



Project Presentation by P.G Students



Practical demonstration



Teaching Methodology

- Chalk and Talk Methods
- ICT
- Group Discussion
- Assignment/ Project
- Practical
- Student seminar
- Remedial Class

Evaluation

- Direct questioning in class room
- Test
- Mid term examination
- Assignments
- Project
- End term examination
- Student presentation

M.Sc Syllabus

CHHATRAPATI SHAHUJI MAHARAJ UNIVERSITY, KANPUR
STRUCTURE OF SYLLABUS FOR THE
PROGRAM M.Sc., SUBJECT CHEMISTRY
 Subject developed by: Dr. Sushil K. Srivastava
 Designation: Professor
 College/University: I.T.A.'s COLLEGE, CIVIL LINES, KANPUR

SEMESTER / YEAR	COURSE CODE	TYPE	COURSE TITLE	CREDITS	CIA	ESE	MARKS
1 st YEAR / 1 st SEM	BO20701T	CORE	INORGANIC CHEMISTRY-I	4	25	75	100
	BO20702T	CORE	ORGANIC CHEMISTRY-I	4	25	75	100
	BO20703T	CORE	PHYSICAL CHEMISTRY-I	4	25	75	100
	BO20704T	CORE	REAL THERMODYNAMICS	4	25	75	100
1 st YEAR / 2 nd SEM	BO20801T	CORE	INORGANIC CHEMISTRY-II	4	25	75	100
	BO20802T	CORE	ORGANIC CHEMISTRY-II	4	25	75	100
	BO20803T	CORE	PHYSICAL CHEMISTRY-II	4	25	75	100
	BO20804T	CORE	ENVIRONMENTAL CHEMISTRY OR	4	25	75	100
	BO20805T	ELECTIVE	SYMMETRY AND GROUP THEORY	4	25	75	100
	BO20807R	PROJECT	RESEARCH PROJECT	8	25	75	100
1 st YEAR / 3 rd SEM	BO20901T	MINOR ELECTIVE	FROM OTHER FACULTY (IN 1 st YEAR)	4	25	75	100
	BO20901T	CORE	BIORGANIC, BIOCHEMICAL, BIOPHYSICAL CHEMISTRY	4	25	75	100
	BO20902T	CORE	APPLICATION OF ELECTROSCOPY	4	25	75	100
	BO20903T	ELECTIVE	SOLID STATE CHEMISTRY	4	25	75	100
1 st YEAR / 4 th SEM	BO20904T	CHOSEN	PROTOSCHEMISTRY	4	25	75	100
	BO20905T	CHOSEN	ORGANOMETALLIC OR METAL CHEMISTRY	4	25	75	100
	BO20906T	CHOSEN	ANALYTICAL CHEMISTRY	4	25	75	100
	BO20907T	CHOSEN	PRACTICAL	4	25	75	100
2 nd YEAR / 1 st SEM	BO21001T	CORE	ORGANIC SYNTHESIS	4	25	75	100
	BO21002T	CORE	INDUSTRIAL CHEMISTRY	4	25	75	100
	BO21003T	CORE	PHYSICAL CHEMISTRY OF NATURAL PRODUCTS	4	25	75	100
	BO21004T	CORE	BIORGANIC CHEMISTRY	4	25	75	100
	BO21005T	ELECTIVE	POLYMER	4	25	75	100
	BO21006T	ELECTIVE	TAUCLAR AND RABBIT CHEMISTRY	4	25	75	100
	BO21007T	ELECTIVE	SCIENTIFIC CHEMISTRY	4	25	75	100
	BO21008T	CHOSEN	BIORGANIC AND SUPRAMOLECULAR CHEMISTRY	4	25	75	100
	BO21009T	CHOSEN	INDUSTRIAL CHEMISTRY	4	25	75	100
	BO21010T	CHOSEN	PHYSICAL CHEMISTRY	4	25	75	100
2 nd YEAR / 2 nd SEM	BO21011T	PRACTICAL	PHYSICAL CHEMISTRY	8	25	75	100
	BO21012R	PROJECT	RESEARCH PROJECT	8	25	75	100

NOTE:
 1. A MINOR ELECTIVE FROM OTHER FACULTY SHALL BE CHOSEN IN 1st YEAR (EITHER 1st / 2nd SEMESTER) AS PER AVAILABILITY.
 2. In both years of PG program, there will be a Research Project or equivalently a research-oriented Dissertation as per guidelines issued earlier and will be of 8 credits (40 marks) in each semester. The student shall submit a report on the project/dissertation at the end of each semester. The student shall submit a research paper on the topic of research project/dissertation at the end of each semester.
 3. Research project can be done in form of Internship/Summer Field work/Research project/Industrial training, and a report/dissertation shall be submitted that shall be evaluated via summer presentation and viva voce.
 4. The student straight away will be awarded 25 marks if he publishes a research paper on the topic of Research Project or Dissertation.

Innovation of Chemistry Department



कालेज ने तैयार किया जन आरोग्य सुदर्शन काढ़ा

संवाद सूत्र, बकेवर : जनता कॉलेज के औद्योगिक रसायन विज्ञान विभाग ने हर्बल औषधियों पर सतत औषधीय अनुसंधान के उपरांत जन आरोग्य सुदर्शन काढ़ा तैयार किया है। इसका उद्देश्य छात्रों को हर्बल औषधि की विस्तृत जानकारी और उनके उपयोग द्वारा जन समाज को लाभान्वित करना है।

प्राचार्य डा. राजेश किशोर त्रिपाठी ने बताया कि नई शिक्षा नीति के अभिनव अधिष्ठापन हेतु औद्योगिक रसायन विभाग के छात्र-छात्राओं को औषधीय अनुसंधान को बढ़ावा देने के उद्देश्य से प्राकृत औषधियों के मूल तत्वों के द्वारा ज्ञानवर्धन एवं

संचालित किया गया है। निकट भविष्य में विश्वविद्यालय द्वारा अनुमति के उपरांत प्राकृतिक औषधियों द्वारा छात्रों को वृहद रूप से प्रशिक्षित करके विभिन्न पाठ्यक्रमों की दिशा में छात्र-छात्राओं को अग्रसर किया जाएगा।

रसतंत्र सार सिद्ध प्रयोग संग्रह एवं चिकित्सा तत्व प्रदीप आदि आयुर्वेदिक ग्रंथों के अध्ययन एवं सतत औषधीय अनुसंधान के प्रारंभिक दौर में निर्मित जन आरोग्य सुदर्शन काढ़ा रोग प्रतिरोधक क्षमता बढ़ाने के साथ-साथ हृदय, फेफड़े, उदर, सांस विकार एवं नाड़ी तंत्र की क्रियाओं को सुचारू गति देने के क्रम में लाभप्रद है।

जनता Ujainia.com

कानपुर | बुधवार, 17 फरवरी 2022 6

मॉडल पर गा ब्योरा

शिक्षा विभाग से विभिन्न प्राइवेट कालेज पर अपने कर्ना अनिवार्य सार के छात्र भी शक्य प्रयोग कर सकते हैं। इस कार्य में बाल शिक्षा मंडल के शिक्षकों को निर्देश दिए जा रहे हैं। इस कार्य में 'कानपुर' के लिए से कुछ नए हैं। इस माध्यम से के विद्यार्थियों को रोज़रकर

जनता कॉलेज ने बनाया सुदर्शन काढ़ा

संवाद सूत्र एजेंसी

बकेवर। देश में नई शिक्षा नीति लागू होने के बाद जनता कॉलेज बकेवर के औद्योगिक रसायन विज्ञान विभाग ने हर्बल औषधियों पर सतत औषधीय अनुसंधान करके जन आरोग्य सुदर्शन काढ़ा बनाया है। बुधवार को काढ़ा का कॉलेज परिसर में प्रदर्शन किया गया।

प्राचार्य डा. राजेश किशोर त्रिपाठी ने बताया कि औद्योगिक रसायन विभाग के छात्र-छात्राओं को प्राकृत औषधियों के मूल तत्वों के ज्ञानवर्धन एवं जागरूकता के लिए अभियान चलाया जा रहा है। रसतंत्र सार सिद्धप्रयोग संग्रह एवं चिकित्सा तत्व प्रदीप आदि आयुर्वेदिक ग्रंथों के अध्ययन एवं

हर्बल औषधियों पर अनुसंधान करके किया गया तैयार

सतत औषधीय अनुसंधान के प्रारंभिक दौर में निर्मित जन आरोग्य सुदर्शन काढ़ा रोग प्रतिरोधक क्षमता बढ़ाता है। यह हृदय, फेफड़े, उदर, सांस विकार में लाभ दायक होने के साथ नाड़ी तंत्र की क्रियाओं को सुचारू भी करता है। औषधि विभाग को प्राचार्य और कॉलेज स्टाफ के समर्थ प्रदर्शित किया गया। प्राचार्य ने औषधि अनुसंधान टीम के सदस्यों को शुभमुख देकर सम्मानित किया। औषधि अनुसंधान टीम के सदस्यों डा. ज्योति भदौरिया, डा. नवीन अवस्थी, कुलदीप अवस्थी, डा. दिव्य ज्योति मिश्रा, अजित अग्निहोत्री, अश्वनी कुमार मिश्रा, विनय शुक्ला मौजूद रहे।



College science exhibition-2024

Department of Chemistry stall



Student's Achievements

List of Job Appointment

SR No	Name of Student	Employment Industry
1	Ms. Priyanka	GODREJ CONSUMER PRODUCTS LIMITED. Malanpur, Gwalior (MP)
2	Mr. Amardeep Singh	GODREJ CONSUMER PRODUCTS LIMITED. Malanpur, Gwalior (MP)
3	Mr. Saket Mishra	GODREJ CONSUMER PRODUCTS LIMITED. Malanpur, Gwalior (MP)
4	Mr. Shyam Singh	OM SAI PHARMA PACK Haridwar (UK)
5	Mr. Adarsh Kumar	UP Basic Education
6	Mr. Pankaj Babu	Jubilant Biosys Ltd Greater Noida (UP)

Offer Letters



Scholarships and Models





Thank You