

**POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS
SECTOR 11, CHANDIGARH**



COURAGE TO KNOW

**DEPARTMENTAL PROFILE
OF
POST GRADUATE DEPARTMENT OF CHEMISTRY
(2024-2025)**

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NAME OF THE DEPARTMENT: CHEMISTRY

COURSE	YEAR OF ESTABLISHMENT	SEATS
Undergraduate Courses (Chemistry as elective subject)	1959	280 (up to 2019-20) 200 (2020-21 onwards)
Postgraduate Courses	2009	20
B.Sc. Honours	2016	20

COURSES OFFERED

S. No	Discipline	2024-25
1	B.Sc. I	228
2	B.Sc I (Skill enhancement Course)	46
3	B.Sc. II	131
4	B.Sc. III	148
5	B.Sc. Hons. II	14
6	B.Sc. Hons. III	19
7	M.Sc. I	19
8	M.Sc. II	19

***Students enrolled = Sanctioned seats +Over and above (additional seats)**

INFRASTRUCTURE (Labs & Library)

S.No.	Infrastructure	No.
1	PG Labs	03
2	UG Labs	03
3	Staff Room	01
4	Instrument and Balance room	01
5	Reagent /Solution Preparation Room-	01
6	Store for Chemicals	01
7	Room for lab staff	01
8	Departmental library	01
9	Reading room	01

(ICT Facilities)

S. No.	Infrastructure	No.
1	Laptops	03
2	Computers	02
3	Printer	01
4	Overhead Projectors	02
5	Wall Screen for Projector	02
6	LCD Projector	01
7	Internet Facility	

ABOUT THE DEPARTMENT

- Highly dedicated, qualified and experienced faculty.
- Theoretical, Practical and Analytical fundamental concepts of Chemistry are being taught to equip the students to take up careers proficiently in every walk of life.
- Useful infrastructure with ICT enabled rooms and labs.
- Teaching and learning through ICT facilities, group discussions, presentations and field visits.
- Continuous and comprehensive evaluation through class test, assignments and house examination.

BEST PRACTICES

- Field Visits to Various Research Institutes and Science Exhibitions.
- Encouraging Post Graduate students for acting as mentor to Undergraduate Students during their free periods in the college.
- Research Oriented Investigatory Projects assigned to post graduate Students to Inculcate Research Aptitude and promote scientific temper.

OUR DEPARTMENTAL TEACHING FACULTY (2024-25)

S. No.	Name	Qualifications	Designation	Specialization	No. of Years of Experience
1.	Dr. Sadhana Verma	PhD, M.Phil, M.Sc (Hons) ,NET	Associate Professor	Organic	35
2.	Dr. Achla Tehran	PhD , M.Sc Hons.	Associate Professor	Organic	34
3.	Dr.Gurjeet Gujral	PhD, M.Phil, M.Sc (Hons),NET	Associate Professor	Organic	32
4.	Ms.Meenakshi Walia	M.Phil, M.Sc(Hons)	Part Timer	Organic	27
5.	Dr. Harpreet Kaur	PhD, M.Sc (Hons)	Contractual	Inorganic	15
6.	Dr. Gagandeep gyani	PhD,NET,M.Sc	Contractual	Organic	15
7.	Mr. Mandeep Singh	M.Sc Chemistry, NET-JRF, GATE, B.Ed, PhD Pursuing from CSIR-CSIO	Assistant Professor	Organic	07

Name: Dr. Sadhana Verma

Designation: Associate Professor

Qualification: M.Sc. (Hons.), M. Phil, PhD,
CSIR Net Qualified



Title of PhD Thesis : Natural Product Synthesis: Synthesis of some Insect Sex pheromones and structurally related compounds

Area of Specialization: Organic Chemistry

Total Teaching Experience : 35 years

PUBLICATIONS

International	03	1. Synthesis of some cis-mono-olefinic insect sex pheromones, collectCzech.chem.commun;56(1991),1744. 2. Stereoselective synthesis of (z)-7-octadecenyl isovalerate, A sexpheromone of Euroctes commun, similes xanthocanepa, collet.czech.chem.commun, 56, (1991) m191 6. 3. Recent Synthetic Methods for Pheromones in Mc Graw Hill Education 2017, as Proceeding of International Conference on Advancement in Science and Technology, Pg 144-145, ISBN (13):978-93-5260-650-4.
National	05	1. Synthesis of (2E,13Z)-2,13-Octadien-1-yl acetate; Indian J. Chem. 29B, July 1990, 657 2. Synthesis of (z)-7-oxo-10-hexadecen-1-ol, a novel tumor inhibitor and of ethyl trans-2, cis-6-dodec-dienoate, a barlett pear constituent through a common intermediate, Indian J. Chem, 29B, Aug(1990) 760 3. Stereoselective synthesis of Z.E conjugated dienes: Application to the Synthesis of insect sex phenomon Indian J. Chem, 29B, July(1990), 606 4. Synthesis of (z)-7-hexadecen-1-yl- acetate and (z)-7-hexadecenal, Indian Acad of chemical sciences, 106, No.1, Feb(1994), 45 5. Synthesis of (z)-6-heneicosen-11-one, (±)z-14-methyl-8-

		hexadecen-1-ol and ($\pm$)5,6 –dehydrosenedigitalen Indian J.Chem 34B, Dec(1995),1030
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Name: Dr. Achla Tehran

Designation: Associate Professor

Qualification: PhD , M.Sc Hons.

Title of PhD Thesis : Synthesis of Hindered Isomers of retinal for studies of stereoselectivity of the binding site of Rhodopsin

Area of Specialization: Organic Chemistry

Total Teaching Experience : 34 years

PUBLICATIONS:

LIST OF PUBLICATIONS

1. A highly efficient deprotection of acetals and ketals under neutral and anhydrous conditions using Trimethylsilyl(fluorosulfonyl)imide. Gurmeet Kaur, A. Trehan, S. Trehan; *J. Org. Chem.*, **1998**, 63, 2365.
2. Trimethylsilyl(fluorosulfonyl)imide: A new catalyst for the reactions of acetals with silyl nucleophiles. A. Trehan, A. Vij, M. Walia, G. Kaur, R. D. Verma, S. Trehan; *Tetrahedron Letters*, **1993**, 7335.
3. Recent advances in the synthesis of retinoids and visual pigment analog studies, R. S. H. Liu, T. Mirzadegan, A. Trehan in "Carotenoids: Chemistry and Biology" Ed By N. I. Krinsky, M. M. Mathews-Roth and R. F. Taylor, Plenum Press, N. Y. **1990**, p139.
4. Synthesis and properties of doubly hindered isomers (7,11- dicis, 7,9,11-tricis and all-cis) of retinonitrile and retinal, A. Trehan, T. Mirzadegan, R. S. H. Liu, *Tetrahedron*, **1990**, 46, 3769.
5. Comparative studies on the chromophore binding of the rod red sensitive cone visual pigments by use of synthetic isomers and analogs, Y. Fukada, T. Okano, Y. Shichida, T. Yoshizawa, A. Trehan, D. Mead, M. Denny, A. E. Asato, R. S. H. Liu, *Biochemistry*, **1990**, 29, 3133.
6. Inhibitor of Retinyl ester formation also prevents the biosynthesis of 11-cis retinal, A. Trehan, F. J. Canada, R. R. Rando, *Biochemistry*, **1990**, 29, 309.
7. Photoisomerization of 7-cis retinal. The concentration effect, S. Ganapathy, A. Trehan, R. S. H. Liu, *J. Chem. Soc. Chem. Commun.* **1990**, 199.
8. On retention of configuration of rhodopsin analogs derived from three dicis retinal isomers, A. Trehan, Y. Imamoto, Y. Shichida, T. Yoshizawa, R. S. H. Liu, *Bioorganic Chemistry*, **1990**, 18, 30.

9. Isomers, visual pigments and bacteriorhodopsin analogs of 3,7,13-trimethyl-10-isopropyl-2,4,6,8,10-tetradecapentaena I(two ring opened analogs), B.W.Zang, A.E.Asato, M.Denny,T. . Mirzadegan, A.Trehan, R.S.H .Liu, Bioorganic Chemistry,1989 17, 217.
10. 9,13-dicis rhodopsin and its one photon one double bond isomerization, Y.Shichida, K. Nakamura, T.Yoshizawa, A.Trehan ,M.Denny, R.S.H.Liu, Biochemistry,1988, 272, 17.
11. All-cis retinal and 7-cis,9-cis, 11-cis retinal, A.Trehan, R.S.H. Liu,Tetrahedron Lett., 1988, 419.
- (2. Synthesis of Decarine, S.V.Kessar, Y.P.Gupta, T.Mohammad, A Khurana (Trehan) K.K.Sawal, Heterocycles, 1984, 22, 2723.

Name : Dr. Gurjeet Gujral



Designation : Associate Professor

Qualification : M.Sc. (Hons.), M. Phil, PhD, NET Qualified

Title of PhD Thesis: Synthesis and Characterization of mixed alkyl/aryl pyridyl and picolyl Chalcogenides and their derivatives.

Area of Specialization: Inorganic Chemistry

Total Teaching Experience: 32 years

PUBLICATIONS (PAPERS PUBLISHED TILL DATE)

International	08	1. Synthesis and Characterization of same α,ω-bis(naphthyl seleno) alkanes : x-ray crystal structure of 1,2-bis(1- naphthyl seleno) ethane, <i>Inorg. Chem . Acta</i>, 360(2007),3127 2. Synthesis of Unsymmetrical pyridyl aryl selenides by reductive cleavage of se-se bond; <i>Phosphorous, sulphur and silicon and the related elements</i>, 183 (2008) 992 3. Recent Advances in C-se bond formation via reductive cleavage of se-se bond in Organochalcogenides, <i>International Journal of Neo Sciences</i>, Vol 2 (2015), 12-16 4. Gujral, Gurjeet, Shivani D. Gulati, Kuldip K. Bhasin, V. A. Potapov, and S. V. Amosova. "Synthesis and characterization of unsymmetric 4-picolyl selenides." <i>Phosphorus, Sulfur, and Silicon and the Related Elements</i> 191, no. 1 (2016): 55-58. 5. Recent Studies in the Synthesis of Aryl Selenium (IV) Oxides in <i>Mc Graw Hill Education 2017</i>, as Proceeding of International Conference on Advancement in Science and Technology, Pg 146-148, ISBN (13): 978-93-5260-650-4. 6. New Aspects in the Synthesis of Organochalcogenides as Hybrid Ligands in <i>International Journal of Advanced Technology in Engineering and Science</i>, Vol 05, Issue 01, Jan.2017, ISSN 2348-7550. 7. Recent Studies on the Synthesis of Picolyl aryl/alkyl Chalcogenides, <i>International Journal of information and computational science</i>, ISSN 1548-7741, Vol. 13, issue 2, March 2020, Pg 57-63. 8. Gujral, Gurjeet, Aman KK Bhasin, K. K. Bhasin, and Shivani Gulati. "Syntheses, characterization, and single crystal X-ray analysis of 2-pyridyl aryl selenium (IV) bromides and chlorides." <i>Phosphorus, Sulfur, and Silicon and the Related Elements</i> 197, no. 1 (2022): 45-53. ISSN 1042-6507, 2021
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		https://doi.org/10.1080/10426507.2021.1987898 (SCOPUS)
National	05	1. Vocationalization of Higher Education. National Seminar, RUSA-As <i>Quality Intervention in the Higher Education Sector</i>, ISBN: 978-93-5113-743-6 Pg. 15-19 (2016). 2. A New Synthetic Methodology for the Preparation 2-Pyridyl anisyl/benzyl selenides: X-Ray Crystal Structure of 2-(4-Methyl pyridyl) tolyl selenide <i>Indian Journal of Heterocyclic Chemistry</i>, Vol 31, Page no 497-503, July- Sept. 2021. ISSN 0971-1627 https://connectjournals.com/01951.2021.31.497(SCOPUS) 3. A Novel methodology for the synthesis of 2-pyridyl aryl selenoxides:-X-ray crystal structure of 2-pyridyl (4-methyl phenyl) selenoxide, <i>Indian Journal of Heterocyclic Chemistry</i>, Vol 32, Page no 169-175, April - June 2022. ISSN 0971-1627 https://connectjournals.com/01951.2022.32.169 (SCOPUS) 4. Design, Synthesis, Characterization and Crystal Structures of 2-Pyridyl Naphthyl Selenides, <i>Indian Journal of Heterocyclic Chemistry</i>, Vol 32, Page no 243-250, April-June 2022. ISSN 0971-1627 https://connectjournals.com/01951.2022.32.243. (SCOPUS) 5. Synthesis, Characterization and Crystal Structure of Hexavalent bis (2-Pyridyl) /2-Pyridyl Aryl Selenones, <i>Indian Journal of Heterocyclic Chemistry</i>, Vol 32, Page no 251-256, April-June 2022. ISSN 0971-1627 https://connectjournals.com/01951.2022.32.251(SCOPUS)

BOOKS PUBLISHED

S. No.	Name of Book	National/ International	Name of Publisher, Year	ISBN
1	Chemistry of Newly Synthesized Organochalcogenides	National	Unistar Books Pvt. Ltd, 2020	978-93-89198-57-7
2	Concepts of Structure and Bonding in Coordination Compounds	National	Unistar Books Pvt. Ltd, 2021	978-93-5205-470-1
3	Handy Lab Manual of Inorganic Chemistry	National	Unistar Books Pvt. Ltd, 2021	978-93-5205-584-5

5	Aspects of Chemistry in Environment	National	Unistar Books Pvt. Ltd,2022	978-93-95263-36-8
6	Chemistry and Ecotoxicology of Pollution	National	Unistar Books Pvt. Ltd,2022	978-93-95263-39-9

Name : Mrs. Meenakshi Walia



Designation : Assistant Professor

Qualification : M.Sc. (Hons.), M. Phil, B.Ed

Title of M.Phil.Thesis : Study of Trimethylsilylbisfluorosulphonylimide as a catalyst in organic synthesis.

Area of Specialization: Organic Chemistry

Total Teaching Experience : 27 years

PUBLICATIONS

International	01	1. Use of Trimethylsilyl bifluoroamide in Alcohol Condensation Reaction
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Name : Dr. Harpreet Kaur



Designation : Assistant Professor

Qualification : M.Sc. Ph.D.

Total Teaching Experience : 15 years

Area of Specialization : Inorganic Chemistry

Title of Ph.D. Thesis : Synthesis Characterization and Biological Activity of some dimethyl Sulphoxide complexes and their derivatives.

PUBLICATIONS

National;	04	1. Synthesis and spectroscopic studies of some halogendemethyl sulphoxides ruthenium (II) and ruthenium (III) complexes with 2-aminobenzimidazole. Journal of Coordination Chemistry Vol 60, no. 10, 10 July 2007, 1047-1055. 2. With 4-aminoantipyrene. Journal of Coordination Chemistry Vol 61, no. 12, 20 June 2008, 1875-1883 3. With 2-aminobenzothiazene. Journal of Coordination Chemistry Vol 61, No. 3, 10 Feb 2008, 441-447 4. Synthesis spectroscopic characterization and antibacterial Activity of some chloro Dimethylsulphoxide/tetramethyl sulphoxide ruthenium(II)/(III) complexes with 1,2,3-Benzotriazole Acta Chem Slov, 2011, 58.
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International;	02	5. Synthesis and Spectroscopic characterization of some novel Ru (II) and Ru(III) demerec sulphide complexes containing the Schiff base N,N' Bis (2-chlorobenzylidene) -1,2 ethylenedimene as spaces. Journal of Coordination Chemistry Vol 62, No.15, 10 August 2009 2556-2568 6. Synthesis Spectroscopic characterization and Antibacterial Activity of some Chlorosulphoxides Ruthenium (II) and Ruthenium (III) complexes of 4 (Benzylidene-Amino 1,2-Dimethyl-2-2 Phenyl -1, 2 Dihydropyrazole -3 – one – Schiff Base) Journal of Chilien Chemical Society, 55 No (2010)
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Name : Dr. Gagandeep Gyani



Designation : Assistant Professor

Qualification : M.Sc. Ph.D, NET

Title of Ph.D. Thesis : Chemical components of *Crataeva nurvala* and Insecticidal activity against spotted bollworm *Earias vittella*

Area of Specialization : Organic Chemistry

Total Teaching Experience 15 years

PUBLICATIONS

National	07	1. Chemical Constituents of flowers of <i>Crataeva nurvala</i>. Natnl.J.Pl. Improv.7(2):95-96.(2005) 2. Chemical investigation of leaves of acacia Arabica.J.Md.Aarom.pl.sci 27(2005),489-491.ISSN 0253-7125 3. Chemical investigation of <i>Crataeva nurvala</i> leaves. Indian J.Pharm.Sci. december2006, 805-807ISSN: 0250-474x. 4. Chemical investigation of datura fruits. Haryana agric Univ. J.Res37:7-8,June 2007. 5. Effect of <i>crataeva nurvala</i> pods against <i>Earias Vittella</i> larvae. Journal of Medicinal and aromatic plant sciences. 28(2006),380-383. 6. Chemical investigation of <i>crataeva nurvala</i> fruits. Indian J.Pharm.Sci. 2009;71:129-30. 7. Chemical investigation of bark of <i>crataeva nurvala</i>. Haryana agric univ J.Res.36:85-87. ISSN: 2049-1115.
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Name : Mr. Mandeep Singh



Designation : Assistant Professor

Qualification : M.Sc., NET-JRF, GATE, B.Ed, PhD Pursuing

Area of Specialization : Organic Chemistry

Total Teaching Experience: 07 years

PUBLICATIONS

International Journal Of Innovation in Engineering & Management ISSN: 2348-4918	01	1. COVID-19 Pandemic: Impact on Education Sector in the field of Science
Published in Vol-04, Issue-02 April-Jun 2025, Published on Apr 01, 2025 DOI" https://doi.org/10.59231/SARI7817 in Shodh Sari- An International Multidisciplinary Journal of ICERT.	01	2. "Climate Change and its impact on Energy and Environment"

BOOKS PUBLISHED

S. No.	Name of Book	National/ International	Name of Publisher, Year	ISBN
1	CHEMISTRY-1 (MAJOR)	National	Thakur Publishers, Rohtak	978-93-5755-550-0

DEPARTMENTAL LAB STAFF PROFILE

NAME **MOHINDER PAL**

DATE OF BIRTH 04-06-1966

DESIGNATION SENIOR LECTURE ASSISTANT

QULIFICATION GRADUATE

DEPARTMENT CHEMISTRY

DATE OF JOING 12-10-1989

DUTIES Store In charge, Gem orders, supervision of store room and solution room. All chemistry lab document work.

EXPERIENCE 33 YEARS



NAME **DAVINDER KUMAR**

DATE OF BIRTH 26-01-1985

DESIGNATION JUNIOR LECTURE ASSISTANT

QULIFICATION GRADUATE

DEPARTMENT CHEMISTRY

DATE OF JOING 16-05-2005

DUTIES In charge of Lab.No.1. Maintenance of lab & Preparation of solutions/Reagents, Maintenance of stock Register, monthly consumption & sign of chemicals/glass apparatus record.

EXPERIENCE 18 YEARS



NAME **BIMAL SINGH**
DATE OF BIRTH 15-09-1974
DESIGNATION GASMAN
QULIFICATION POST GRADUATE
DEPARTMENT CHEMISTRY
DATE OF JOINING 12-03-1996



DUTIES In charge of Lab.2&M.sc.Lab-1, Maintenance of lab & Preparation of solutions/Reagents, Maintenance of stock Register, monthly consumption & sign of chemicals/glass apparatus record. Help in practical Lab.No.01 in 3rd & 4th period.

EXPERIENCE 27 YEARS

NAME **RAJDULARI KUMARI**
DATE OF BIRTH 15-12-1990
DESIGNATION LAB ATTENDENT
QULIFICATION POST GRADUATE
DEPARTMENT CHEMISTRY
DATE OF JOINING 31-10-2013



DUTIES In charge of M. Sc Lab No.29, cleaning Lab.No.29, Lab.M.sc.1 &staff room, Maintenance of lab & Preparation of solutions/Reagents, Maintenance of stock Register, monthly consumption & sign of chemicals/glass apparatus record of Lab.No.29. Help in practical Lab.No.01 in 1st &2nd period.

EXPERIENCE 10 YEARS

NAME **LALIT RANA**

DATE OF BIRTH 21-04-1985

DESIGNATION LAB ATTENDENT

QULIFICATION MATRIC

DEPARTMENT CHEMISTRY

DATE OF JOINING 20-08-2010

DUTIES In charge of Lab No.3 &cleaning of lab No.03, Lab.No.01, &Lab No.02, help in practical Lab.No.01, Maintenance of stock Register, monthly consumption & sign of chemicals/glass apparatus record of Lab No.03.

EXPERIENCE 13 YEARS





NAME	RAMAN
DATE OF BIRTH	26-03-1993
DESIGNATION	LAB ATTENDANT
QULIFICATION	POST GRADUATE
DEPARTMENT	CHEMISTRY
DATE OF JOINING	23-11-2016
DUTIES	In charge of Lab No.1 & cleaning of lab No.01, & Lab No.02, help in practical Lab.No.03, Maintenance of stock Register, monthly consumption & sign of chemicals/glass apparatus record of Lab No.01.
EXPERIENCE	08 YEARS

RESULTS OF UG AND PG CLASSES (2024-2025)

Class/Sem	Students Appeared	Students Passed	I	II	III	College Pass %	University Pass %	+ve or -ve
B.Sc. I st sem						RESULT AWAITED		
B.Sc. II nd sem						RESULT AWAITED		
B.Sc. III rd sem						RESULT AWAITED		
B.Sc. IV th sem						RESULT AWAITED		
B.Sc. V th sem						RESULT AWAITED		
B.Sc. VI th sem						RESULT AWAITED		
Bsc III rd sem hons						RESULT AWAITED		
B.Sc. IV th sem hons						RESULT AWAITED		
B.Sc. V th sem						RESULT AWAITED		
B.Sc. VI th sem						RESULT AWAITED		

Class/Sem	Students Appeared	Students Passed	I	II	III	College Pass %	Universi ty Pass %	+ve or -ve
M.Sc. I st sem(411)						RESULT AWAITED		

M.Sc. Istsem(412)						RESULT AWAITED		
M.Sc. Istsem(413)						RESULT AWAITED		
M.Sc.IIndsem(421)						RESULT AWAITED		
M.Sc.IIndsem(422)						RESULT AWAITED		
M.Sc.IIndsem(423)						RESULT AWAITED		
M.Sc.IIndsem(424)						RESULT AWAITED		
M.Sc.IIIrdsem(51 1)						RESULT AWAITED		
M.Sc.IIIrdsem(51 2)						RESULT AWAITED		
M.Sc.IIIrdsem(51 3)						RESULT AWAITED		
M.Sc.IIIrdsem(51 4)						RESULT AWAITED		
M.Sc.IVthsem(52 1)						RESULT AWAITED		
M.Sc.IVthsem(52 2)						RESULT AWAITED		
M.Sc.IVthsem(52 3)						RESULT AWAITED		
M.Sc.IVthsem(52 4)						RESULT AWAITED		

Faculty duties

Year	Name of teacher participated	Name of the body in which full time teacher participated
2024-2025	Dr. Sadhana Verma	1. Setting of question papers for UG/PG programs . 2. Evaluation of B.Sc (Med. & Non Med.) and M.Sc. (Chemistry), Answer Sheets.
2024-2025	Dr. Gurjeet Gujral	1. Setting of question papers for UG/PG programs . 2. Evaluation of B.Sc (Med. & Non Med.) and M.Sc. (Chemistry), Answer Sheets.
2024-2025	Ms.Meenakshi Walia	1. Setting of question papers for PG programs . 2. Evaluation of B.Sc. (Med. & Non Med.) and M.Sc. (Chemistry), Answer Sheets.
2024-2025	Dr. Harpreet Kaur	1. Setting of question papers for UG programs . 2. Evaluation of B.Sc. (Med. & Non Med.) and M.Sc. (Chemistry), Answer Sheets.

2024-2025	Dr Gagandeep Gyani	1. Setting of question papers for UG programs . 2. Evaluation of B.Sc. (Med. & Non Med.) and M.Sc. (Chemistry), Answer Sheets
2024-2025	Mr. Mandeep Singh	1. Setting of question papers for UG programs . 2. Evaluation of B.Sc. (Med. & Non Med.) and M.Sc. (Chemistry), Answer Sheets

PAPERS/FDP/SEMINARS/WORKSHOPS

Department of Chemistry

1. Papers presented:-

S.No.	Name	Title of paper presented	Event	Date
1.	Mandeep Singh	"Best Practices for maintaining and Improving Educational Standards"	One Day Multidisciplinary Online National Seminar by SNRL JAIRAM GIRLS COLLEGE, KURUKSHETRA	23/11/2024
2.	Mandeep Singh	"Environmental Engineering and Ethics of Science"	One Day International Multidisciplinary Conference by M.D.S.D. College, Ambala City, Haryana and ICERT	20/12/2024
3.	Mandeep Singh	"Rasayana Vidya & Indian Knowledge System"	One Day National Seminar organized by Rajiv Gandhi Government College Saha, Ambala, Haryana	10/01/2025

2. Research Papers/ Book chapters published:

S.No.	Name	Title of Book chapter/ Paper	Name of Journal/ Book with issue and Year
1.	Mandeep Singh	Climate Change and its impact on Energy and Environment"	Published in Vol-04, Issue-02 April-Jun 2025, Published on Apr 01, 2025 DOI" https://doi.org/10.59231/SARI7817 in Shodh Sari- An International Multidisciplinary Journal of ICERT.

3. Books published/edited :

S.No.	Name	Title of Book chapter/ Book published	Title of the Book, Publisher, Year of Publication, ISBN No.
1	Mandeep Singh	"Artificial Intelligence role in Higher Education"	Book title: - "Increase Use of Artificial Intelligence (AI) & it's Impact", By National Publisher (P&P academy) with ISBN: 978-81-985450-2-2.
2	Mandeep Singh	"Introduction to Food Science and Nutrition"	Book title: - "Food Fundamentals-A Scientific Approach to Nutrition" (ISBN: 9788197718458)\, Publisher: Crestwood Publishers.

4. Posters Presented:

S.N o.	Name	Title of paper presented	Event	Date
1.	Dr. Sadhana Verma	Synthesis and Application of Pyridyl Selenium Compounds	One Day National Seminar organised by PGGCG-11, Chandigarh	11/02/2025
2.	Dr. Sadhana Verma	Recent Synthetic methods for Pheromones	National Symposium organized by Dept. of Chemistry, Panjab University	21-22 Feb 2025
3.	Dr. Gurjeet	Synthesis and Application of	One Day National Seminar organised by PGGCG-11,	11/02/2025

	Gujral	Pyridyl Selenium Compounds	Chandigarh	
4.	Dr. Gurjeet Gujral	Recent Concepts for the synthesis of Pyridyl Aryl Selenoids	National Symposium organized by Dept. of Chemistry, Panjab University	21-22 Feb 2025
5.	Dr. Achla Trehan	Synthesis and Application of Pyridyl Selenium Compounds	One Day National Seminar organised by PGGCG-11, Chandigarh	11/02/2025
6.	Mandeep Singh	Global climate change Impacts, Adaptation and Sustainable Mitigation measures	One Day National Seminar organised by PGGCG-11, Chandigarh	11/02/2025
7.	Dr. Harpreet Kaur	Global climate change Impacts, Adaptation and Sustainable Mitigation measures	One Day National Seminar organised by PGGCG-11, Chandigarh	11/02/2025
8.	Dr. Gagandeep Gyani	Global climate change Impacts, Adaptation and Sustainable Mitigation measures	One Day National Seminar organised by PGGCG-11, Chandigarh	11/02/2025

5. AWARDS:

1.	Chanakya Award 2024: ICERT, India and the USA, presented Mr. Mandeep Singh with an International Award for his contributions to education, social welfare, and the education fraternity and society at MDSD College.	Date and Venue: At MDSD College, Ambala, Haryana during International Conference on 20 Dec 2024
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6. REFRESHER COURSE/ FDP:-

S.No.	Name	Refresher course/ FDP
1.	Mandeep Singh	Refresher course in offline mode in "Research Methodology & Publication ethics" was completed from Himachal Pradesh University (26 May 2025 to 07 June 2025).

Name of Dept:- CHEMISTRY
Academic Achievements (2024-25)

S. No.	Student Name	Class and roll no	Position in Panjab University Examination	Semester (May 2024/December 2024)	Passport size Picture of Student
1.	Eishika,	M.Sc 2 nd year, 12910	1 st	4 th Sem, May 2024	
2.	BINDIA	B.Sc 3 rd sem, 1812	4 th	3 rd sem, Dec 2024	
3.	PRIYANKA GARG	B.Sc 3 rd sem, 1869	5 th	3 rd sem, Dec 2024	
4.	SPARSH	B.Sc 5 th sem, 11551	1 st	5 th sem, Dec 2024	

5.	GUNGUN	B.Sc 5 th sem, 11556	2 nd	5 th sem, Dec 2024	
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DETAILS OF NET/ SLET/ GATE / OTHERS QUALIFIED STUDENTS:2024-25

S. No.	Name	Year of passing M.Sc	NAME OF EXAM QUALIFIED	Year of passing Exam	RANK	PHOTO
1.	Eishika	May 2024	CSIR-NET	DECEMBER 2023	AIR 49	
	Eishika	May 2024	GATE	JANUARY 2024		

2.	Anjali	Will pass M.Sc in May 2025	GATE	March 2025	AIR 2510	
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ACTIVITY REPORT (2024-2025)

S.No.	Activity	Date and Venue
1	ONE DAY WORKSHOP: All teachers of Department of Chemistry participated and contributed in organizing One Day Workshop on “Scientific Methods as Tools for acquiring knowledge”. Mr. Anuj Kumar, Instrumentation Engineer, was resource person for technical session –I on the topic “Hands on training on UV spectrophotometer and Physical Instrumentation” He provided a comprehensive overview and hands-on experience with various sophisticated instruments commonly used in chemistry laboratories. The workshop covered demonstration and working of UV Spectrophotometer, Conductivity bridge, Polarimeter, Flame Photometer, pH Meter, Colorimeter, Digital Melting Point Apparatus, and Potentiometer. About 100 students participated in the workshop.	21 Jan 2025 at PGGCG-11

		
2	ONE DAY NATIONAL SEMINAR: All teachers of Department of Chemistry and many students participated and contributed in organizing One Day National Seminar at PGGCG-11, Chandigarh on theme “Current Trends in Scientific Research and Knowledge”.	11 Feb 2025 at PGGCG-11
		
3	BEST OUT OF WASTE: Post Graduate Government College for Girls, Sector -11 Chandigarh, Chemistry Department	14 Feb 2025 at PGGCG-11

	organized Inter class competition on the theme “Best Out of Waste” for the students of B.Sc I, II and III on 14-02-25. The purpose of this activity was to explore the student’s imagination, creativity and inculcate holistic approach in students. Around 60 students participated in these activities.	
		
4	PROMOTION OF SCIENCE IN RURAL AREAS: Mr. Mandeep Singh, Assistant Professor of Chemistry delivered lecture on topics “Future Career Opportunities after Bachelor and Master Degree in Sciences” & “Contribution and Role of Science in Human Well being”. He also performed various Science experiments to inculcate interest of rural area students towards Science.	17 Feb 2025 at GSSS NALVI (2409) Kurukshetra

		
5	SCI FEST at PGGCG-11: All of the chemistry department's teachers helped to organize Sci Fest. Various events were planned, such as the Model Making Competition, Meet the Scientist: Slide Making Competition, Math Quiz, and Best Out of Waste Competition. Students actively participated in the events.	27 Feb 2025 at PGGCG-11
		
6	PROMOTION OF SCIENCE IN RURAL AREAS: Mr. Mandeep Singh, Assistant Professor of	03 March 2025 at PM Shri GSSS, Samlehri (3775) Panchkula

	Chemistry delivered lecture on topics “Future Career Opportunities after Bachelor and Master Degree in Sciences” & “Science and Technology for Sustainable Well-Being” . He also performed various Science experiments/activities to inculcate interest of rural area students towards Science.	
	 	
7	Chief Guest cum Resource Person:- Mr. Mandeep Singh, Assistant Professor of Chemistry acted as Chief Guest on Closing Ceremony of the Seven Day Special NSS Camp (Day & Night) organized by NSS Unit of the College from 17-23 Feb 2025 on the theme “Empowering Youth for Digital Literacy” at Village Saha. He also delivered highly motivational expert talks/ Extension lectures as a Resource person to the NSS Volunteers of the Camp on topics: a). “Importance of National Service Scheme in personality development of NSS Volunteers”	07 March 2025 at Rajiv Gandhi Government College Saha, Ambala

b). "Empowerment of Youth via Digital Literacy"



Report

Under the able guidance of Principal Prof (Dr) Anita Kaushal, JIGYASA-The Science Society of Post Graduate Government College for Girls, Sector -11, Chandigarh under the aegis of IQAC organized One Day National Seminar on “**Current Trends in Scientific Research and Knowledge**” on 11th February, 2025. The Event was sponsored by Department of Science and Technology and Renewable Energy, Chandigarh Administration. The seminar's goals were to bring together participants from different scientific fields to develop fresh, creative ideas for sustainable development, expose them to the most recent advancements in research, and expand their horizons and knowledge by listening to distinguished scientists and researchers across the nation. About 200 students and 25 faculty members registered for the seminar from different colleges of Chandigarh and its vicinity.



RegistrationforNationalScienceSeminar



RegistrationinProgress

IN AUGURAL SESSION

Honorable Principal, Prof. (Dr.) Anita Kaushal accorded a floral welcome to the Chief Guest of the event, **Shri T.C. Nautiyal (IFS)**, Chief Conservator of Forests, UT Chandigarh, Secretary (Science & Technology & Renewable Energy), Director Environment and Member Secretary (Chandigarh Pollution Control Committee). The function commenced with the ceremony of Lighting of lamp and recitation of Saraswati Vandan by the students of the college. Principal Madam gave the welcome remarks for the first session. In her address, she welcomed everyone and introduced the Chief Guest for the One Day National Seminar on "**Current Trends in Scientific Research and Knowledge**," which was organized by the college's Science Society, JIGYASA. She encouraged the students to adopt an integrative approach towards their studies, which is beneficial for their future prospects.

Shri T.C. Nautiyal in his keynote address encouraged students to be inquisitive and develop logical scientific thinking regarding the sustainability of the environment and energy resources in his keynote speech. Mr. Nautiyal emphasized how crucial an interdisciplinary approach is in the current situation. He suggested that funds ought to be allocated for creative educational research. Promoting global research for the benefit of all people was his main focus. He also mentioned that your own well-being is the first step in achieving global wellbeing and talked about the several government organizations that fund creative research projects. According to him, this National Seminar will serve as a gathering place for scientists from different scientific disciplines to exchange their invaluable insights that would promote sustainable development.

This seminar should give participants the chance to broaden their knowledge through the expert opinions of renowned scientists. Shri T.C. Nautiyal

congratulated and appreciated the science faculty of the college for organising this One Day National Seminar for the students.



Welcome of the Dignitaries in Inaugural session



Dignitaries in Inaugural session



KeynoteAddressbyChiefGuestShriT.C.Nautiyal





Token of appreciation to Chief Guest by Honorable Principal

Technical Session I

Lecture-I (Botany)

LECTURE ON “BAMBOO: AN EMERGING BIORESOURCE FOR NUTRACEUTICALS”

Department of Botany conducted a lecture on “**Bamboo: an emerging bio resource for Nutraceuticals**”. **Prof. C. Nirmala, Department of Botany, Panjab University, Chandigarh** was the resource person. The programme was started with the introduction of the resource person by Dr. Madhumita Bhattacharjee, Associate Professor, Botany. She narrated various achievements of the resource person.



Introduction of the speaker

Dr. Nirmala completed her PhD (Botany) from Department of Botany Kurukshetra University, Kurukshetra in 1991. She pursued her Post doctoral research at the Department of Molecular Genetics, University of Hannover,

Germany where she worked in the field of Biotechnology and Genetic Engineering. Subsequently she received a fellowship from DSE, Germany to work in Biotechnology in the DSE Centre in Leipzig in collaboration with University of Hannover, Humboldt University, Berlin and Max Plank Institute, Koln, Germany. Presently, she works on the nutritional and health benefits of bamboo shoots and other underutilized plants.

She has successfully guided 24 PhD scholars and published more than 100 papers in National and International journals. In recognition of her work in bamboos, she was selected as the World Bamboo Ambassador from India by the World Bamboo Organization (WBO), USA in 2015 and is continuing in the same capacity till date. Her research area involves Nutritional and Medicinal aspects of Bamboo. Her work mainly pertains to characterization of medicinal properties and propagation of bamboo species.

Topic of her talk was **‘Bamboo: An Emerging bio resource for Nutraceuticals’**. She deliberated the importance of bamboos as nutraceuticals. Bamboo shoots are edible and rich in nutrients, including vitamins (B and C), minerals, and dietary fiber. They are low in calories and contain bioactive compounds that may have health benefits, such as antioxidant and anti-inflammatory properties. This makes bamboo shoots a valuable addition to diets, particularly in regions where food security is a concern. The speakers discussed the role of various parts of the bamboo plant are used in traditional medicine. Bamboo leaves and shoots are believed to have therapeutic effects, including improving digestion and reducing cholesterol levels. Dr. Nirmala shared that Bamboo forests are vital ecosystems that support diverse flora and fauna. Promoting ecotourism in bamboo-rich areas can raise awareness about biodiversity and the importance of conservation. Tours and educational programs can highlight the ecological significance of bamboo, fostering a sense of responsibility toward environmental preservation. Dr. Nirmala shared several

incredible business ideas based on bamboo entrepreneurship and livelihood development.



View of Audience

She discussed in detail the nutritional and health benefits of bamboos and how the usage of bamboo shoots can help in the economic development of society and food security, especially in rural areas. The whole session was highly interesting, informative and interactive. Dr. Nirmala motivated the students to work hard to enable themselves to enter into prestigious science organizations for their better future prospects. Around 70 students and 10 faculty members benefitted from the session.



Presentation by Resource Person Prof. C. Nirmala



Token of appreciation being presented to the resource person

**Technical Session I Lecture–
II (Zoology)**

LECTURE ON “ANIMAL CELL CULTURE AND ITS APPLICATIONS”

Department of Zoology conducted a lecture on ‘**Animal Cell Culture and its Applications**’ by **Dr. Ravinder Kumar** (Assistant Professor & Chairperson, **Department of Zoology**, Panjab University, Chandigarh). The session started with the formal introduction of the resource person by Dr. Ravneet Kaur, Assistant Professor, Zoology. **Dr. Ravinder Kumar** earned his Ph.D. from Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh. He has also served as a DST-INSPIRE Faculty at Panjab University, Chandigarh for one year. His research interests include autoimmune disorders, Skin and Pigmentary Disorders, Animal Primary Cell Cultures and Animal Disease Models. With over 44 published research papers in renowned journals like *British Journal of Dermatology*, 10 book chapters and 02 Patents he has made significant contributions to the field of Clinical Sciences. He is a member of the Asian Society of Pigment Cell Research (APCR) and International Society for Pigment Cell Research. Awarded with DST-INSPIRE Faculty Award, he is presently the Chairman of Department of Zoology, PU, Chandigarh.



Welcome of the resource person, Dr. Ravinder Kumar



Introduction of the resource person, Dr. Ravinder Kumar

Dr. Ravinder gave a brief lecture on the main aims of the program - to provide a systematic knowledge on various aspects of Animal cell culture, familiarization with various types of cells, instrumentation (including inverted phase contrast fluorescence microscopy), different experimentation methods and good laboratory practices (GLPs) to be followed for performing effective and contamination-free animal cell culture. The lecture encompassed observation of morphology of various cell types namely kidney cells, lung cells and mouse fibroblast. The students benefitted FROM THE TALK that will help them in gaining confidence in handling animal cell culture and its techniques. They also gained both theoretical and practical knowledge which should motivate them to enter research in future.

Presentation by the speaker



Dr. Ravinder aimed to provide a complete knowledge of culturing mammalian cells. Further he tried to bridge the skill gap for the industry requirement in the field of Animal Cell Culture. As there is a constant demand for well-trained animal cell culturists in academia, research and industry, this lecture provided a good exposure to students who want to take up cell culture as a career.



View of the audience & Speaker



View of the audience

The talk was followed by an interactive session in which the students asked their queries enthusiastically. The Bachelor of Science and Masters of Science students and the faculty members of Zoology attended the talk. This session was an inspiration and motivated the students to explore deeper into the fields of clinical science. A moment was presented to Dr. Ravinder Kumar by Dr. Sushma Gupta, Head of Zoology Department as a token of appreciation and gratitude.



Token of appreciation being presented to the resource person



Faculty of Zoology Department with Dr. Ravinder Kumar

POSTER SESSION

As many as 61 students and 25 faculty members of various colleges of Chandigarh and outside Chandigarh presented their posters during poster presentation on the following sub themes:

Themes of the Poster Presentation were:

THEMES OF THE POSTER PRESENTATION
1) Green Technology Innovation
2) Global Warming and its effects on Weather Pattern
3) Solid Waste Management
4) Environmental issues and its remediation
5) Space Exploration in New Era
6) Material Sciences
7) Artificial Intelligence
8) Nanotechnology and its Applications
9) Renewable Energy: a need of the Hour
10) Smart Farming for Sustainable Food Products
11) Recent Innovations in Applied Life Sciences and Health Care
12) Exploring New Horizon in Physical, Chemical and Biological Sciences



Display of Posters



Students aligning their posters according to their codes



Display of Posters



Judges interacting with the students during poster session



Presentation of posters in Progress



Judgementin progress



Judgementinprogress

PRIZEWINNINGPOSTER



PRIZEWINNINGPOSTER



PRIZEWINNINGPOSTER

CRISPR Cas9 Utility in Plants

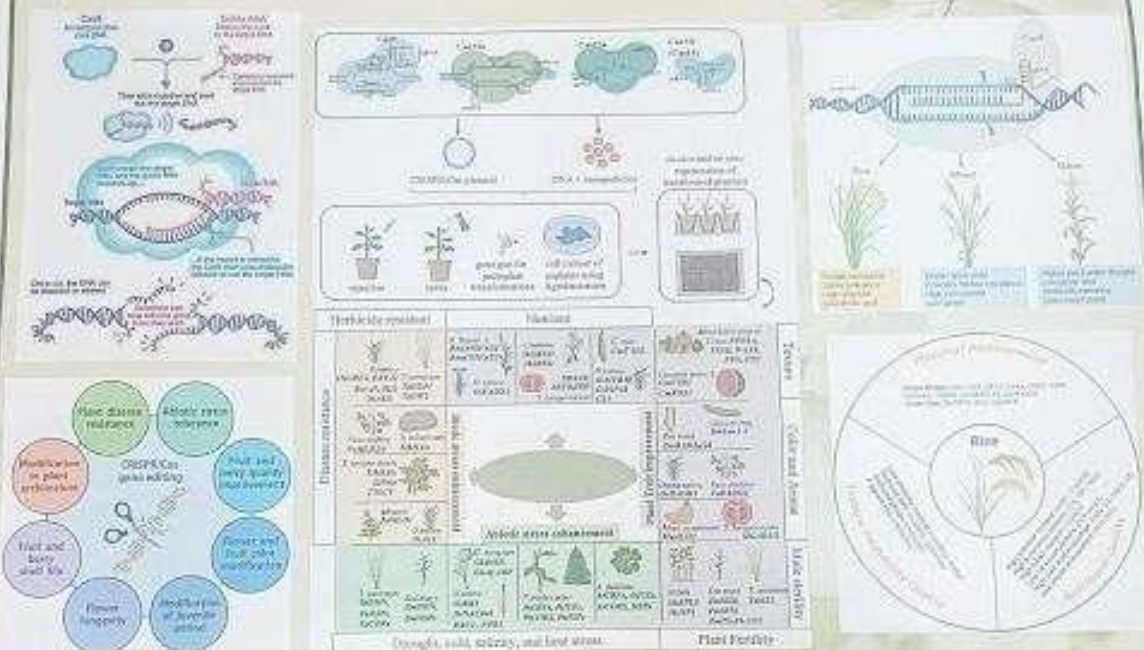
Dr Anju Pehwal (Project Mentor)

Akshita, Neha

Botany Department

Post Graduate Government College For Girls Sector 11 Chandigarh

The clustered regularly interspaced short palindromic repeat (CRISPR) is a gene editing tool that was derived from natural antiviral defence system in bacteria consist of two main parts guide RNA and Cas9 enzyme. Cas9 enzyme cause double strand breaks any locus of interest which results into gene modification. It makes much easier to alter DNA sequences in crops. These have the potential to increase the amount of nutrient dense food available to people around the world.



Conclusion: From an acquired prokaryotic immune system to an innovative tool in genetic engineering and research CRISPR Cas9 has gone along way finding broad and multipurpose application. It is undeniable that this technology has dramatically expanding the ability to manipulate and study model organisms from Yeast to plants, mammalian and even human cells.

References: researchgate.net,
Mdpi.com, rcsb.org, factualeyes.com

Technical Session-II

Lecture I (Chemistry)

LECTURE ON “IONIC LIQUIDS- GREEN ALTERNATIVES TO VOLATILE ORGANIC SOLVENTS”.

Department of Chemistry conducted a lecture on “**Ionic Liquids- Green Alternatives to Volatile Organic Solvents**”. Dr. Deepak Sharma, Associate Professor, Department of Chemistry, PG College Ambala Cantt was the resource person. Dr Harpreet Kaur welcomed the speaker and formally introduced the speaker to the audience. Dr Sharma has vast research experience with many publications in national and international journals.

The speaker started the lecture on ionic liquids by describing that due to tunable properties of ionic liquids, they are known as designer solvents. The structure of ionic liquids was explained along with the discussion on First- Generation and Second-Generation Ionic Liquids. First generation of ionic liquids has physical properties like hydrophobicity/hydrophilicity, lower viscosity, lower melting point, higher thermal stability and non-inflammability. Second-Generations ionic liquids are specifically designed to improve their properties for particular applications. These are salts in the liquid state and typically consist of organic cation or organic anions. Their unique property is to remain liquid at relatively low temperature, often below 100°C.

He explained that Ionic liquids beyond to be seen very effective tool in clean technologies as alternatives for conventional organic solvents in organic synthesis. They have successfully been used as catalysts to support various chemical reactions. They are widely used as electrolytes in electrochemical devices such as batteries, sensing devices and supercapacitors. These are also used in energy storage devices. So this field provides a lot of scope for the researcher for sustainable chemistry developments. It was indeed an enlightening session for all the students and also for the faculty members.

The resource person was honored with token of appreciation presented by faculty members of chemistry department.

About 70 undergraduate and postgraduate students and faculty members from Chemistry Department participated in the seminar.



Welcome of resource person, Dr. Deepak Sharma



Lecture by resource person, Dr. Deepak Sharma



View of the audience



Lecture in progress



Faculty members and students of Chemistry attending the lecture



Token of appreciation being presented to the resource person

Technical Session II

Lecture–II(Physics)

LECTURE ON “EXPLORATION OF MATERIALS FOR ENERGY HARVESTING”

Department of Physics conducted a lecture on “Exploration of Materials for Energy Harvesting” by Dr. Ranjan Kumar, Professor, Department of Physics, Panjab University, Chandigarh. Prof. Ranjan Kumar earned his Ph.D. from Panjab University, Chandigarh. He has also served as a Professor at KAU, Saudi Arabia. His research interests include model calculations of fullerenes, nanocomposites, spintronics, and superconductors. With over 90 published research papers in renowned journals like *Materials Today* and *Physical Review*, he has made significant contributions to the field of Materials Science. He is a member of the Indian Physics Association (IPA) and the Indian Association of Physics Teachers (IAPT), and also the Founder Member and Secretary of Chandigarh Vigyan Parishad.





Welcome of the resource person

The speaker deliberated his talk in rapidly advancing and fascinating field of "Materials for Energy Harvesting". Twentieth century has marked many milestones in Physics which includes emergence of Quantum Mechanics, theory of relativity, discovery of X-rays, ground breaking research in statistical mechanics, discovery of quarks etc. He mentioned that this scientific surge has also touched solid state physics which is now called Condensed Matter Physics (CMP). The search for new materials with improved properties (suited to the needs of the society) is the motivation for all Material Scientists. He presented the updates in some areas of CMP with the main focus on thermo-electricity, superconductivity and solar cells.



Presentation by the speaker

Prof. Ranjan Kumar started with the basics of CMP, then explained the Density function theory (DFT) and how these concepts can be applied to explore new materials. He also explained how nano-materials with enhanced properties are vital for the development of sustainable energy solutions and the reduction of dependence on traditional power generation methods.



View of the audience

The talk was followed by an interactive session in which the students asked their queries enthusiastically. About 70 Undergraduate and Postgraduate students and the faculty of Physics attended the talk. This talk should inspire and motivate the students to delve deeper into the fields of Materials Science. As a token of appreciation, a memento was presented to Prof. Ranjan Kumar by Prof. Anju Sharma, The Head of Physics Department.



Token of appreciation being presented to the resource person

ValedictoryFunction

This One Day National seminar was a great opportunity to the students to interact with experts & chance to learn more effectively and efficiently in a learning environment that is distinct from classes. The multidisciplinary approach was fairly understood by the students in pertinent disciplines. Through the interactive session with well-known experts, they were able to stay up to date on industry developments and technology. It assisted the students in evaluating themselves, learning more about their methods of operation, and improving in areas where they were deficient. They felt more confident after speaking with professionals and industry experts.

During the valedictory function, respected Principal Ma'am Prof. (Dr.) Anita Kaushal was the Chief Guest. She appreciated the organizers for their efforts behind the success of the seminar. She also congratulated the winners and gave away prizes. In the end Vote of Thanks was given by Dr. Sadhana Verma, Convener of this National Seminar and JIGYASA-The Science Society of the College. Following were the prize-winners:

Prize	Names	Class
First	Geetanjali	M.Sc.II(Zoology)
Second	Akshita&Neha	M.Sc.II(Botany)
Third	Jaskirat&Chhavi	M.Sc.I(Chemistry)

RESOURCE PERSONS OF ONE DAY NATIONAL SEMINAR ON CURRENT TRENDS IN SCIENTIFIC RESEARCH AND KNOWLEDGE

TECHNICAL SESSION I



PROF. C. NIRMALA (PROFESSOR)
DEPARTMENT OF BOTANY
PANJAB UNIVERSITY
CHANDIGARH

Contact No. :- 9780316716

E-mail ID: - cnirmala@pu.ac.in



Dr. RAVINDRA KUMAR

**(CHAIRPERSON and ASSISTANT
PROFESSOR)**

**DEPARTMENT OF ZOOLOGY PANJAB
UNIVERSITY CHANDIGARH**

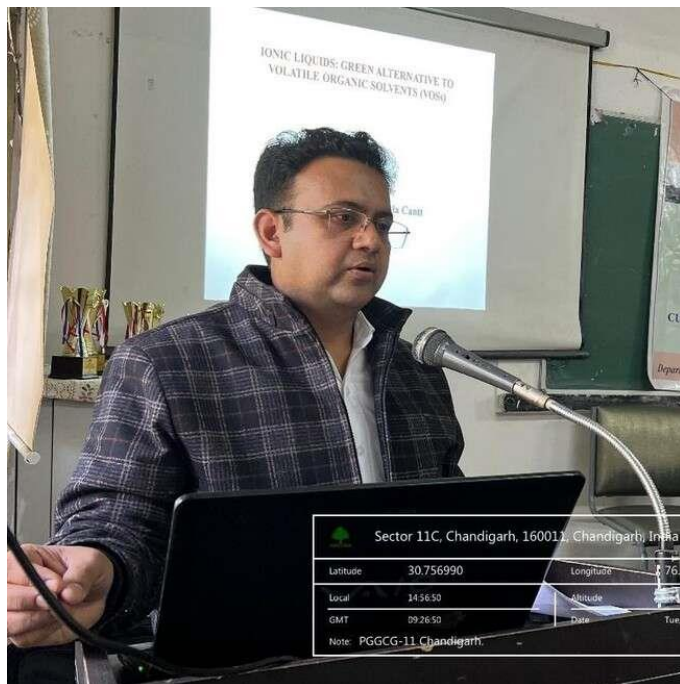
Contact No. :- 9876086373

Sector 11C, Chandigarh, 160011,
Chandigarh, India

Latitude	30.756965	Longitude	76.781581
Local	11:50:09	Altitude	360.9 meters
GMT	06:20:09	Date	Tue, 11-02-2025

Note: PGGCG-11 Chandigarh.

TECHNICALSESSIONII



Dr. DEEPAK SHARMA
(ASSOCIATEPROFESSOR) GOVT. PG
COLLEGE AMBALA

ContactNo.:-9896808194

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PROF. RANJAN KUMAR
(PROFFESSOR) DEPARTMENT OF
PHYSICS PANJAB UNIVERSITY
CHANDIGARH

ContactNo:- 8283084499

E-mail ID:-ranjan@pu.ac.in



PrizewinnerswithhonorablePrincipal



winner

PrizewinnerswithhonorablePrincipal

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Report

on

SCIENCE FEST

to celebrate National Science Day



Organized by

Jigyasa- The Science Society

(Under the aegis of IQAC at Post Graduate Government College for Girls, Sector-11, Chandigarh)

Sponsored by

Department of Science & Technology& Renewable Energy and Chandigarh Administration

HIGHLIGHTS OF THE FUNCTION

DATE: 27th February 2025

TIME: 9: 00 a.m. to 3: 00 pm

VENUE:Post Graduate Government College for Girls, Sector-11

THEME: "*Science & Innovation for a Developed India*"

Key Events Organized:

1. **Inter-college power point presentation competition**
2. **Inter-college Best Out of Waste competition**
3. **Inter-college Speech competition**
4. **Inter-college Maths Quizcompetition**
5. **Inter-collegeModel Making Competition**

DETAILS OF THE FUNCTION

Under the guidance of Principal Prof (Dr) Anita Kaushal, ‘Jigyasa’- *The Science Society*(under the aegis of IQAC) of Post Graduate Government College for Girls, Sector-11, Chandigarh, organized a ***Science Fest*** on the theme"Science & Innovation for a Developed India" to celebrate National Science Day on 27th February 2025. The fest aimed to promote scientific thinking and innovation among students, offering a platform to showcase talent in science and technology.The event was sponsored by the Department of Science & Technology, Renewable Energy and Chandigarh Administration. The registration for various inter college competitionsinitiated at 9:00 am. About 89 students from all the college situated in Chandigarh,participated in several events of this fest.



Glimpse of the event:





Inter college power point competition on the topic ‘Meet the Scientist’

Venue: BCA Lab

23 students participated in this competition. The topic '*Meet the Scientist*' holds a great significance in inspiring students and fostering a deep appreciation for scientific contributions. It encouraged participants to explore the lives, discoveries, and impact of renowned scientists, stimulating them to develop a scientific temperament. The students gave good presentations on discoveries and innovations by renowned scientists. It helped them to appreciate the past scientific discoveries and showcased how science contributes to society, medicine, technology, and environmental sustainability.

Judges for the inter college power point competition

Dr Meenu Verma, Professor P.G.G.C.G. 11

Dr Harpreet Kaur, Assistant Professor P.G.G.C.G. 11

Glimpse of the event:







Inter college competition on Best Out of Waste (Socially Useful Products)

- **Venue: Zoology Lab 1**

It was an innovative and emotive event that encouraged students to utilize discarded materials creatively and constructively. It aimed to promote sustainability, resourcefulness, and innovation by challenging participants to transform waste into useful products. Idea was to make them understand that waste is not just garbage but a potential resource that can be repurposed into something valuable. The students made socially useful products on the concept of the 3R's: Reduce, Reuse, and Recycle. Through this competition, students not only contribute to environmental conservation but also develop lifelong skills in innovation and sustainability. 11 students participated in this competition.

Judges for the inter college competition on Best Out of Waste:

Dr Guneeta Chadha, Associate Professor P.G.G.C.G. 11

Dr Gopika Bhardwaj, Associate Professor P.G.G.C.G. 11

Glimpse of the event:







Inter-college Speech Competition on the Theme: *Artificial Intelligence - Future of India*

Venue: Room No. 210

34 students participated in this highly relevant and thought-provoking event. AI is transforming industries, economies, and societies, making it a crucial topic for students to explore. This competition provided a platform for students to express their views, understand AI's impact, and discuss its potential in shaping India's future.

Judges for speech competition:

Dr Tanuja Pathak, Associate Professor P.G.G.C.G. 11

Dr Jaspreet Vasu, Associate Professor P.G.G.C.G. 11

Glimpse of the event:







Inter-college Maths Quiz

Venue: Room No. 34

Around 13 teams from different colleges participated enthusiastically in the quiz. The event began with a preliminary round in which 7 teams were selected to play the quiz. Mathematics is the foundation of logical reasoning, problem-solving, and analytical thinking. This competition provided students with an engaging platform to test their mathematical skills and enhance their understanding of mathematical concepts. It allowed students to challenge themselves and compete with peers from different institutions.

Glimpse of the event:







Inter-College Model Making Competition

Venue: Zoology Lab 2

5 students participated in this competition. Model making is an innovative and interactive way for students to express their scientific understanding and creativity. This competition allowed students to convert theoretical knowledge into practical applications by designing and working on static models that demonstrate scientific principles, technological advancements, or environmental solutions.

Judges of Model making competition:

Dr Sangeeta Mehtani, Associate Professor P.G.G.C.G. 11

Dr Simmi Arora, Associate Professor P.G.G.C.G. 11

Glimpse of the event:







The result of various activities conducted on the occasion are as follows:

S. No.	Name of the contest	1 st Prize	2 nd Prize	3 rd Prize
1.	Meet the Scientist: Slide Show	Simarpreet Kaur (PGGCG-11)	Kirti Dhiman (GHS-10)	Mohit Kaushik (PGGC-11)
2.	Speech Competition	Rimjhim Trehan (GGSCW-26)	Chanchal Thakur (PGGCG-42)	Diya Singh Omta (MCM DAV)
3.	Best out of Waste	Nisha (PGGCG-11)	Jasmeen Kaur (PGGCG-11)	Mandeep Kaur (GHS-10)
4.	Model Making	Purnima Kumari (PGGC-11)	Mansi (SGGSC-26)	Kashvi Singh Malik (PGGCG-11)
5.	Maths Quiz	(i) Paras (ii) Harsh Jindal (PGGC-11)	(i) Vansh Tyagi (ii) Harshal Mahajan (PGGC-11)	(i) Harseerat Kaur (ii) Mahak (PGGCG-11)







Science Day celebrations in PGGCG-11, Chandigarh

By Divya Azad · February 28, 2025 · 311 · 0



Jigyasa The Science Society of PGGCG 11 Chandigarh, organised Science Fest to celebrate National Science Day 2025 with a pivotal theme of Science & Innovation for a Developed India on 27th February, 2025. The event aimed to foster scientific curiosity, innovation, and exploration of indigenous technologies among students. Various activities, including Scientific Models, Demonstrations, Slide shows, Maths Quiz, Best out of Waste and Speech competitions were organized to engage students from different colleges of Chandigarh. This event gave a diverse hands on experience to participants wherein they could translate the theoretical scientific knowhow into presentations and demonstrations. About 90 students participated in the fest from different colleges. The event concluded with a valedictory session, where participants were commended for their enthusiasm, dedication, and innovative presentations throughout the fest. Principal, (Prof.) Dr. Anita Kaushal was the chief guest for the occasion. She addressed the participants and motivated them to be inquisitive for scientific knowledge, innovations and aim for great career opportunities.

The result of various activities conducted on the occasion are as follows:

S. No.	Name of the contest	1st Prize	2nd Prize	3rd Prize
1.	Meet the Scientist: Slide Show	Simarpreet Kaur (PGGCG-11)	Kirti Dhiman (GHS-10)	Mohit Kaushal (PGGC-11)
2.	Speech Competition	Rimjhim Trehan (GGSCW-26)	Chanchal Thakur (PGGCG-42)	Diya Singh (MCM DAV)
3.	Best out of Waste	Nisha (PGGCG-11)	Jaismeen Kaur (PGGCG-11)	Mandeep Kaur (GHS-10)
4.	Model Making	Purnima Kumari (PGGC-11)	Mansi (GGSC-26)	Kashvi Singh Malik (PGGCG-11)
5.	Maths Quiz	(i) Paras (ii) Harsh Jindal (PGGC-11)	(i) Vansh Tyagi (ii) Harshal Mahajan (PGGC-11)	(i) Harseerat Kaur (ii) Mahak (PGGCG-11)