

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

NAAC Accredited 'A' Grade with CGPA 3.52 (Second cycle)



Department of Physics

INDEX

| Sr. No | Topic | Page No |
|--------|--|---------|
| 1. | Mission and Highlights of the Department | 1 |
| 2. | Faculty and Lab Staff Profile | 2-39 |
| 3. | Research Project | 40 |
| 4. | Courses Offered | 41 |
| 5. | Infrastructure | 42-63 |
| 6. | Results | 64-71 |
| 7. | Students ‘ Achievements <ul style="list-style-type: none">• Academic Achievements• Internships• Industrial Visits• Research Projects• Extra-Curricular Activities | 72-92 |
| 7. | Alumnae Details | 93-99 |
| 8 | Physics Association “Galaxy” and Activities Organized | 100-135 |
| 8. | Annexure <ul style="list-style-type: none">• Time Table | 136-142 |

PHYSICS DEPARTMENT

OUR MISSION

- To impart quality education to students while equipping them with knowledge and skills in their stream.
- To identify hidden talents and provide opportunities for students to realize their full potential and gain access to various carrier opportunities.
- To set high standards of comprehensive education by developing the intellectual strength of students and guiding them towards scientific and technical excellence.

HIGHLIGHTS OF THE DEPARTMENT

- Dr. Gaganpreet, has been awarded “DST Women Scientist A”, research project (SR/WOS-A/PM-30/2017) on Functionalized phosphorene based single electron transistor (SET) for toxic gas sensing application (Grant of Rs 24.56 Lakhs).
- Dr. Dipti Munjal obtained the degree of Doctorate of Philosophy in Physics in February, 2023 from Dept. of Physics and Astrophysics, University of Delhi, New Delhi.
- All the faculty members of the department are Ph.D. degree holders.
- Three of the faculty members: Dr. Sarvpreet Kaur, Dr. Gopika Sood and Dr. Gaganpreet also have post doctoral experience.
- Above all, the faculty members are dedicated, passionate and fully committed towards their duties.

FACULTY PROFILE

| Name | Qualification | Designation | Specialization | Teaching Experience (in Years) |
|---------------------|--|---------------------|---|---------------------------------------|
| Prof. Anju Sharma | M.Sc. (Hons. School) M.Phil., Phd, JPT Qualified | Professor | Material Sciences | 31 |
| Dr. Sarvpreet Kaur | M.Sc., Ph.D., NET Qualified | Associate Professor | Spectroscopy | 17 |
| Dr. Dipti Munjal | M.Sc., NET Qualified, Ph.D. | Assistant Professor | Atomic and Molecular Physics | 9 |
| Dr. Gopika Sood | M.Sc. (Hons. School), Ph.D Post-Doctorate, GATE Qualified | Assistant Professor | Nuclear And Particle Physics, Electronics | 12 |
| Dr. Mandeep Kaur | M.Sc. (Hons.), M.Phil, Ph.D, GATE Qualified | Assistant Professor | Theoretical Nuclear Physics | 5 |
| Dr. Anterpreet Kaur | M.Sc. (Hons.), M.Phil, Ph.D. UGC NET | Assistant Professor | Experimental High Energy Physics | 4 |
| Dr. Gaganpreet | M.Sc. (Hons.) Ph.D., Post Doctorate | Assistant Professor | Computational Materials Science | 3 |

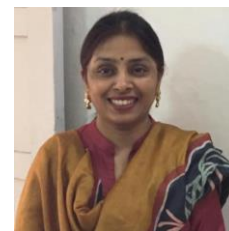
FACULTY PROFILE

Name: Prof. Anju Sharma

Designation : Professor, HOD of Physics Department

Qualification: M.Sc. (Hons. School) Physics, M.Phil, Ph.D.

Area of Specialization : Material Sciences



Teaching Experience: (31 Years)

1. Twenty Nine years, Post Graduate Govt. College for Girls, Sector-11, Chandigarh.
2. One year (as Lecturer), D.A.V. College, Sector-10, Chandigarh.

Courses Taught

M.Sc. (Physics)

- Statistical Mechanics
- Classical Mechanics

B. Sc. (Hons.)

- Experimental Nuclear and Particle Physics
- Physics of Vacuum and Low Temperature

B. Sc. (General)

- Nuclear and Particle Physics
- Statistical and Thermodynamics
- Classical Mechanics

Awards and Distinctions

- Distinction in M.Phil
- 1st position in M.Sc. (Hons. School) in Panjab University
- 1st position in B.Sc. (Hons. School) in Panjab University

Publications:

1. S. Kumar, A. Sharma, Rama Arora, O.P. Pandey, The Microstructure And Wear Behaviour of Garnet Particle Reinforced Al Matrix Composites, J. Mat. Res. And Tech., 8, 5443, 2019.
2. A. Sharma, S. Kumar, G. Singh, and O. P. Pandey, Effect of Particle Size on Wear Behavior of Al–Garnet Composite, Particulate Science and Technology, 33: 234–239, 2015
3. A. Sharma, S. Kumar, G. Singh and O.P. Pandey, Evaluation of Sliding Behavior of Garnet Particle-Containing LM13 Alloy Composites, Procedia Materials Science, 5 953, 2014.

Book

- Mechanics for B.Sc. (Semester – II) by Mohindra Publication House, 2015, ISBN : 978-93-82068-78-5

List of papers/posters presented in conferences/workshops/seminars

1. Study of Wear track and wear debris of LM13 Al alloy composite using scanning electron microscope. Anju Sharma, Rama Arora, Suresh Kumar, Gurmel Singh and O.P. Pandey, Poster presentation in one day National Seminar on Fascination of Light and Photonics for life. PGGCG-11, Chandigarh, 22nd Jan, 2016.
2. Evaluation of oxidation wear performance of environment friendly Al composite. National Conference on Advance oxidation processes. Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey Oct.,2015, PU, Chandigarh.
3. Wear performance of environment friendly Al composite. Wear performance of Garnet Al composite at higher contact pressure. International Conference of Condensed Matter and Applied Physics, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, Oct.,2015. Bikaner.
4. Tribological Properties of Stir Cast Natural Mineral Garnet Reinforced Al Composite at Elevated temperatures, Anju Sharma, Rama Arora, Suresh Kumar, Gurmel Singh and O.P. Pandey International Conference of Advancements and Futuristic Trends in Mechanical and Materials Engineering, PTU Jalandhar, 16-18 Oct, 2014.
5. Study of Oxidative wear of Aluminium rutile Composites at Higher Contact Pressure, Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey International Conference on Advance in Materials and Manufacturing Technology, AMMT 2014, Chitkara University, 10-11 Oct 2014.
6. Studies of the Wear Damage and Wear Mode Transitions in Stir Cast LM13 alloy Rutile Composites, Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, International Conference of Advancements and Futuristic Trends in Mechanical and Materials Engineering, PTU Jalandhar, 16-18 Oct, 2014.
7. Effect of Tribo-Oxide layers on the Sliding Wear Behavior of Rutile Reinforced LM13 Alloy Composites at High Temperature and Pressure, Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, Processing and Fabrication of Advanced Materials, PFAM XXIII, IIT Roorkee, 5-7 Dec, 2014.
8. Effect of Rutile reinforcement on the abrasive wear of Aluminium composite. International conference on Frontiers in Material Research and Applications , Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, FMRA-2014. SBSSTC, Ferozepur, 30-31 Oct.,2014, ISBN: 978-93-83842-92.
9. Compressive strength of mineral reinforced Aluminium Alloy composite. Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, API Journal, In Press, Oct., 2015, Bikaner.

Name: Dr. Sarvpreet Kaur

Designation : Associate Professor

Qualification: M.Sc. (Physics), M.Phil, NET, Ph.D.

Area of Specialization : Molecular Spectroscopy



Teaching Experience: (Approx. 17 Years)

1. Seventeen Years (as Assistant Prof.), Post Graduate Govt. College for Girls, Sector-11, Chandigarh since April, 2006.

Research Experience: 6 years

Six years (as RA and SRA) at Department of Physics, Panjab University, Chandigarh w.e.f. March 2000-April 2006

Courses Taught

M.Sc. (Physics)

- Mathematical Physics I
- Mathematical Physics II
- Fibre optics

B. Sc. (Hons.)

- Physics of Vacuum and Low Temperature
- Mathematical Physics

B. Sc. (General)

- Statistical and Thermodynamics
- Optics and Lasers
- Waves and Oscillations

Awards and Distinctions

- Young Scientist Award under Fast Track Scheme of DST, New Delhi, A project on lasing dyes was sanctioned (Cost Rs 6, 12,000)
- Senior Research associate (Pool Scientist) CSIR, 2005-2006
- Research Associate fellowship by CSIR, (open), 2003-2005.
- Senior Research Fellowship of CSIR, New Delhi(open).1999
- 2nd position in M.Sc. (Hons. School) in Panjab University
- 2nd position in B.Sc. in MDU

Publications:

1. Dissociation energy of diatomic molecules, Sarvpreet Kaur and C.G. Mahajan *Pramana J. Phys.* **50**, 397 (1998).
2. Wei Hua's-four Parameter Potential: Comments and Computation of Molecular Constants α_e and $\omega_e x_e$, Sarvpreet Kaur and C.G. Mahajan *Pramana J. Phys.* **52**, 409 (1999).
3. Some new four-parameter potentials and their use in the study of vibrational thermodynamical quantities of diatomic molecules. Sarvpreet Kaur and C.G. Mahajan *Pramana J. Phys.* **52**, 459 (1999).
4. Numerical solution of four-parameter potentials. Sarvpreet Kaur and C.G. Mahajan *J. Quant. Spectrosc. & Radiative Trans.* **69**, 111 (2001).
5. Rejoinder: Authors reply to the comments made by Suresh Chandra on their paper entitled "Dissociation energy of diatomic molecules" Sarvpreet Kaur and C.G. Mahajan *Pramana J. Phys.* **57**, 837 (2001).
6. Universal relationship between spectroscopic constants, Sarvpreet Kaur and C.G. Mahajan *Pramana*. **59**, 479 (2002).
7. Rejoinder to comments of paper ' UniversalConstants', *Pramana, J. of Physics*, May 2004.
8. Infrared spectroscopic studies of free-base tetraphenylporphine and its dication. G.S.S.saini, Sandeep Sharma, Sarvpreet Kaur and C.G.Mahajan; *Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy* 11/2005; 61(13-14):3070-6.
9. Spectroscopic studies of rhodamine 6G dispersed in polymethylcyanoacrylate, G.S.S.Saini, Srvpreet kaur, S.K. Tripathi, C.G. Mahajan. *Spectrochimica Acta A* 61(2005) 653-658
10. Rhodamine 6G interaction with solvents studied by vibrational spectroscopy and density functional theory G.S.S. Saini · Amit Sharma · Sarvpreet Kaur · K.S. Bindra · Vasant Sathe · S.K. Tripathi · C.G. Mhahajan · *Journal of Molecular Structure* 08/2009; 931(10 – 19).
11. Fourier transform infrared spectral study of N,N-dimethylformamide-water-Rhodamine 6G Mixture; A. Sharma, S. Kaur, C. G. Mahajan, S. K. Tripathi And G. S. S. Saini*, *Molecular Physics* Vol. 105, No.1, 2007, Pg 117-123
12. Fourier-transform infrared spectroscopic studies of dithia tetraphenylporphine. Sandeep Mishra · Sarvpreet Kaur · S. K. Tripathi · C. G. Mahajan · G. S. S. Saini · *Journal of Chemical Sciences* 07/2006; 118(4):361-369.
13. Resonance Raman and electronic absorption study of free-base tetraphenylporphine diacid dispersed in polymethylcyanoacrylate. G.S.S. Saini, A. Sharma, S. Singh, J.M. Abbas, S.K. Tripathi, S. Kaur, C.G. Mahajan, H.H. Thanga and A.L. Verma, *J. Raman Spectrosc.* **38** (2007) 1561-1569.
14. Zinc Pthalocyanine thin films and chemical analyte interactions studies by density functional theory and Vibrational technique, *J. Phys Condensed Matter*, 21 (2009)
15. Effect of pyridine on Zinc thylcyanine studied by density functional theory calculations and infrared absorption, *Vibrational Spectroscopy. Vibrational Spectroscopy* 56 (2011) 60–65.
16. Vibrational spectroscopic and density functional theory studies of chloranil–imidazole interaction, *Vibrational spectroscopy*; 5(2011) 56(1); 66-73.
17. Effects of chemical analytes on zinc tetraphenylporphine thin films studied by vibrational spectroscopy and density functional theory; *Vibrational Spectroscopy* 61 (2012) 188– 198.

18. Solvation of Coumarin6 studied by vibrational spectroscopy and density functional theoryRandhir Singh · Vasant Sathe · Amit Sharma · Sarvpreet Kaur · G.S.S. Saini. Journal of Molecular Structure, 1106(2016) 170-180. ·
19. Structure and vibrations of glutathione studied by vibrational spectroscopy and density functional theoryGurpreet Singh · Sukh Dev Dogra · Sarvpreet Kaur · S K Tripathi · Satya Prakash · Bimal Rai · G S S Saini ·Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy 05/2015; 149:505-515.
20. Vibrational Study of Melatonin and its Radioprotective Activity towards Hydroxyl Radical. Gurpreet Singh · Sarvpreet Kaur · G. S. S. Saini · 12/2011; 1393:295-296.

Book Published:

- Introduction to Lasers and Fibre Optics, Anmol Publications Pvt Ltd., New Delhi, ISBN- 978-81-261-6495-0 (2015)

List of papers presented in conferences/workshops/seminars

1. An investigation of molecular constants...published in laser symposium on Laser and Molecular spectroscopy, Gorakhpur Feb 26-28,1998.
2. Dissociaion Energy of diatomic Molecules. Laser Symposium on Laser and Molecular spectroscopy. Gorakhpur Feb 26-28,1998.
3. Franck Condon factors of Rydberg states of S₂ molecule. Sarvpreet Kaur,2nd International Conference on “Current Development in Atomic, Molecular and Optical Physics with applications” March 21-23,2006, Delhi University.
4. Fourier Transform Infrared Spectroscopic Study of N,N'-Dimethylforamide-Rhodamine6G Mixture in the presence of water impurities , Amit Sharma, Sarvpreet kaur, C.G. Mahajan, S.K. tripathi and G.S.S.Saini, Ist Chandigarh Science Congrress, March 16-17, 2007.
5. Normal Coordinate analysis of coumarine 6 and effect of solvens on is infrared spectra. A. Sharma, S. Kaur, S. K. Tripathi and G.S.S.Saini, Department of Physics, P.U., Chd. CHASCON 26-28 Feb, 2009.
6. Alcohol sensing by Zinc pthloyanine probed by raman, infrared techniques and densiy functional theory. S. Singh, S.Kaur, S.K. ripahi, G.S.S.Saini, Department of Physics, P.U., Chd. CHASCON 26-28 Feb, 2009.
7. Vibraional study of coumarine Sarvpreet Kaur, Ami Sharma, Vasan Sahe, S.K. Tripathi and G.S.S.Saini. NLS-08, LASTEC, Delhi, Jan 7-10, 2009.
8. Laser Raman Studies of Rh6G trapped in Acrylate Polymer, DAE Symposium Proceedings, Dec 22-24, 2003
9. Vibrational Study of Melatonin and its radioprotective Activity towards Hydroxyl Radical, AIP Conf. Proc.1393(2011) 295-296.
10. Solvation of coumarine 500 studied by vibrational spectroscopy and DFT; International conference on advances in condensed and nano materials., Department of Physics, P.U., Chandigarh 23-26 Feb, 2011.

Conferences/ Seminars/ Symposium/Workshops/Lectures Attended:

1. National Symposium on Recent advances in Laser and Molecular Spectroscopy held at GORAKHPUR. Feb 26-28, 1998.
2. Patent awareness workshop, P.U, Chd, 18.2.2000.

3. Seminar on Computational Techniques; Department of Physics, Panjab University, Chandigarh, 6-7 March, 2002.
4. National Workshop on Laser and Molecular spectroscopy at Dept. of Physics, P.U., Chandigarh. March 16-18, 2002.
5. Workshop on Analytical Instrumentation organized by RSIC, P.U., Chandigarh, March 26-28, 2003.
6. Regional symposium cum Workshop on New and Renewable Energy, PGGCG-11, Chandigarh, 9th Feb, 2007.
7. Lecture on Oil Conservation, PGGCG-11, Chd. 20.8.2008.
8. 2nd Chandigarh Science Congress, P.U., Chd. March 14-15, 2008.
9. 8th DAE-BRNS National Laser Symposium LASTED, Delhi, Jan 7-10, 2009.
10. 3rd Chandigarh Science Congress, 26-28 Feb, 2009
11. ICSSR Sponsored regional Seminar on 'Role of.....North western Region', GCG-11, Chandigarh, 6th Feb, 2009.
12. ICSSR Sponsored regional seminar, GCG-11, Chandigarh, 27th March, 2009.
13. Workshop on E-Content Development, PGGCG-11, Chandigarh, 10-12 March, 2010.
14. International conference on advances in condensed and nano materials., department of Physics, P.U., Chandigarh, Feb 22, 23-26, 2011.
15. UGC sponsored national seminar on Web Information Systems and Technology, PGGCG-11, Chandigarh, 9th Nov., 2011.
16. 6th Chandigarh Science Congress, P.U., Chandigarh, Feb 26-28, 2012.
17. National seminar on Food Security In India, PGGCG-11, Chandigarh, Nov. 8th, 2012.
18. 8th Chandigarh Science Congress, P.U., Chd., Feb 26-28, 2014.
19. National Seminar Recent Advances in Physics, MCM College, Chandigarh, 24th Feb, 2014.
20. National Conference on RUSA-..., PGGCG-42, Chd., Nov. 13, 2014.
21. National seminar on 'Human Rights.... Strategies', PGGCG-11, Chd., Feb. 5th, 2015.

Name: Dr. Dipti Munjal

Designation : Assistant Professor

Qualification: M.Sc. (Physics), NET, Ph.D.

Area of Specialization : Atomic and Molecular Physics



Teaching Experience: (Approx. 9 years)

1. Three years (as Assistant Prof.), Post Graduate Govt. College for Girls, Sector-11, Chandigarh since Sept., 2019.
2. Two years (approx.) as Assistant professor in Engineering college (from Sept. 2006 to Sept. 2008).
3. Four years (approx.) as Assistant professor (ad hoc) in colleges of University of Delhi. (from Sept. 2008 to Jan. 2013 & Sept. 2014 to May 2015).

Research Experience: (Approx. 3 years)

- Three years research experience as Women Scientist under Women Scientist fellowship from Department of Science and Technology, India from May 2015-May 2018 at Swami Shradhdhanad College, University of Delhi.

Courses Taught

M.Sc. (Physics)

- Electronics
- Atomic and Molecular Physics
- Particle Physics I
- Quantum Physics I

B. Sc. (Hons.)

- Physics of Semiconductors
- Physics of Vacuum and Low Temperature

B. Sc. (General)

- Condensed Matter Physics
- Electronics and Solid State Devices

Awards and Distinction

- Women Scientist fellowship from Department of Science and Technology, India from May 2015-May 2018

Publications :

1. B Dhayia, D Munjal and V Prasad, 'Ionization and population transfer in Lithium Rydberg states with ultra short chirped laser pulses', *Ind. J. Phys.* 85, 1721(2011).
2. S. Lumb, S. Lumb, D. Munjal and V. Prasad 'Intense field induced excitation and ionization of an atom confined in a dense quantum plasma', *Phys. Scr.* 90, 095603(2015).
3. D Munjal, V Prasad, 'Spectra of electron pair under harmonic and Debye potential', *Contribution in plasma Physics* 57, 76(2017).
4. D Munjal, K D Sen, V Prasad, 'Two particle system in spherically confined plasma environment', D Munjal, K D Sen, V Prasad, *Eur. Phys. J. D* 71, 59(2017).
5. D Munjal, P.Silotia and V Prasad, 'Spectra of confined Positronium', *Phys. Plasmas* 24, 122118 (2017).
6. D. Munjal, K. D. Sen and V. Prasad, 'Shape effect on information theoretic measures of quantum heterostructures', *J. Phys. Commun.* 2(2018) 025002.
7. D. Munjal, B.Vidhani and V.Prasad, 'Positronium under harmonic and plasma confinement, AIP Conference Proceedings, 1953, 140040(2018).
8. V. Nautiyal, D. Munjal, P.Silotia, Spin orbit effect in a quantum dot confined in a Kratzer potential, *J. Magnetism & Magnetic Materials*, 528, 167688(2021).

List of papers presented in conferences

1. Poster presentation on Photoionization and excitation of confined Positronium at Indian International Science festival organized by IIT Delhi from 4 Dec 2015 to 8 Dec. 2015
2. Oral presentation on Photoionization of hydrogenic impurity in spherical quantum dot in presence of Gaussian potential, at National conference on Recent Advances in Materials and Field Theory NCRAMFT- 2K15, ISBN: 978-93-5254-054-9.
3. Poster presentation at International conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity organized by University of Delhi on Nov. 7-11, 2016
4. Poster presentation on Positronium under harmonic and plasma confinement, 2nd International Conference on Condensed Matter and Applied Physics (ICC-2017).
5. Poster presentation on 'Optical response of Positronium under soft confinement', International Conference on Physics, Society and Technology-2019, Deshbandhu College, University of Delhi, Delhi.

Conferences/ Seminars/ Symposium/Workshops/Lectures/Webinar Attended:

1. National symposium "Indian Physics and Mega projects" organized by Miranda House, University of Delhi on 2-3 Feb. 2009.
2. National conference "Advances in atomic, molecular and nuclear physics" organized by M.M.H college, Ghaziabad. 2009 to 7 Nov. 2009.
3. Indian International Science festival organized by IIT Delhi from 4 Dec 2015 to 8 Dec. 2015.
4. National conference on Recent Advances in Materials and Field Theory NCRAMFT- 2K15 organized by Bhagwan Parshuram Institute of Technology, Delhi on 28-29 Dec 2015.
5. International conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity organized by University of Delhi on Nov. 7-11, 2016.

6. International conference on Condensed Matter and Applied Physics (ICC-2017) organized by Govt. Engineering college, Bikaner on Nov. 24-25, 2017.
7. International conference on Physics, Society and Technology-2019, organized by Deshbandhu College, University of Delhi, Delhi on Jan. 17-19, 2019.
8. One day National seminar on "Recent trends in interactive science: A path to global expansion" organized by PGGCG-11, Chandigarh on 5 Nov. 2019
9. Webinar on "Awareness Programme on understanding and promoting mental health" organized by PGGCG-11, Chandigarh on 12 May 2020.
10. Webinar on Science, Society and Exponential change: Reimagining the future" Organized by Department of physics, Kalindi College, University of Delhi on 13 May 2020.
11. Webinar Lecture series on "From health to happiness" organized by Amity University, Noida on 17th May 2020.
12. Webinar on "Covid-19" organized by Ch. Devlal College of Pharmacy, Jagadhri on 23 May 2020.
13. Webinar on "Arts and Science of mentoring" Organized by Physics Department Daulat ram College, University of Delhi on 1 June 2020.
14. Online Lecture on "Light and Einstein's $E=mc^2$ " organized by National association of Physics Teachers on 20 June 2020.
15. Online Lecture on "The mass of small things" organized by National association of Physics Teachers on 24th July 2021.
16. National e-seminar on "Application of computational Quantum Chemistry and Molecular Docking" on 16 April 2022.

Name: Dr. Gopika Sood

Designation: Assistant Professor

Qualification: Post-Doctorate, Ph.D, M.Sc (Hons), GATE Qualified

Area of Specialization: High Energy Physics



Teaching Experience: 13 years (2009 – At present)

- **Assistant Professor**, Post Graduate Government College for Girls, Sector 11 Chandigarh since 16 August, 2017.

Research Experience: Approx. 2.5 Years

- **Postdoc Resesarch Associate**, CMS@LHC, (Feb., 2007 to Mar 2008)
- **Post-Doctoral Research Associate @ STAR @ RHIC** (Feb. 2004 to June 2006).

Courses Taught

M.Sc. (Physics)

- Nuclear Physics
- Experimental Techniques in Nuclear Physics
- Electronics I

B. Sc. (Hons.)

- Analog and Digital Electronics
- Nuclear Radiation and Detectors
- Electronics

B. Sc.

- Nuclear and Particle Physics
- Electronics
- Condensed Matter Physics
- Statistical Physics and Thermodynamics
- Quantum Mechanics
- Electricity and Magnetism
- Waves and Vibration

Awards and Distinction:

- Qualified GATE (1998) Percentile: 85.85

Publications:

- 1 Photon and Eta Production in p+Pb and p+C Collisions at $\sqrt{s_{NN}} = 17.4$ GeV
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Aug 2011.
Published in Nucl.Phys. A898 (2013) 14-23
2. Event-by-event charged-neutral fluctuations in Pb+Pb collisions at 158 A-GeV
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Mar 2011. 6 pp.
Published in Phys.Lett. B701 (2011) 300-305
3. Source radii at target rapidity from two-proton and two-deuteron correlations in central Pb + Pb collisions at 158-A-GeV
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Sep 2007. 11 pp.
e-Print: arXiv:0709.2477
4. Suppression of High-p(T) Neutral Pions in Central Pb+Pb Collisions at $s(NN)^{1/2} = 17.3$ -GeV
WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Aug 2007. 5 pp.
Published in Phys.Rev.Lett. 100 (2008) 242301
5. Production of antineutrino events in ultra-relativistic heavy ion collisions
G. Sood (Government Coll., Chandigarh). Apr 2007. 6 pp.
To appear in the proceedings of Conference: C06-11-14Proceedings
e-Print: arXiv:0704.1193
6. ALICE: Physics performance report, volume II
ALICE Collaboration (B Alessandro (ed.) (Turin U.&INFN, Turin) *et al.*). 2006. 746 pp.
Published in J.Phys. G32 (2006) 1295-2040
7. Rapidity and species dependence of particle production at large transverse momentum for d+Au collisions at $s(NN)^{1/2} = 200$ -GeV
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Sep 2006. 14 pp.
Published in Phys.Rev. C76 (2007) 054903
8. Longitudinal double-spin asymmetry and cross section for inclusive jet production in polarized proton collisions at $s^{1/2} = 200$ -GeV
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Aug 2006. 6 pp.
Published in Phys.Rev.Lett. 97 (2006) 252001
9. Neutral kaon interferometry in Au+Au collisions at $s(NN)^{1/2} = 200$ -GeV
STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Aug 2006. 11 pp.
Published in Phys.Rev. C74 (2006) 054902

10. Strange particle production in p+p collisions at $s^{**}(1/2) = 200\text{-GeV}$
 STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Jul 2006. 22 pp.
 Published in Phys.Rev. C75 (2007) 064901

11. Pion Freeze-Out Time in Pb+Pb Collisions at 158-A-GeV/c Studied via π^-/π^+ and K^-/K^+ Ratios
 WA98 Collaboration (M.M. Aggarwal (Panjab U.) *et al.*). Jul 2006. 9 pp.
 Published in Eur.Phys.J. C48 (2006) 343-352

12. Delta phi Delta eta Correlations in Central Au+Au Collisions at $s(\text{NN})^{**}(1/2) = 200\text{-GeV}$
 Star Collaboration (J. Adams (Birmingham U.) *et al.*). Jul 2006. 17 pp.
 Published in Phys.Rev. C75 (2007) 034901

13. The Multiplicity dependence of inclusive p t spectra from pp collisions at $s \sqrt{s} = 200\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Jun 2006. 17 pp.
 Published in Phys.Rev. D74 (2006) 032006

14. Scaling Properties of Hyperon Production in Au+Au Collisions at $s^{**}(1/2) = 200\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Jun 2006. 6 pp.
 Published in Phys.Rev.Lett. 98 (2007) 062301

15. Identified baryon and meson distributions at large transverse momenta from Au+Au collisions at $s(\text{NN})^{**}(1/2) = 200\text{-GeV}$
 STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Jun 2006. 6 pp.
 Published in Phys.Rev.Lett. 97 (2006) 152301

16. The Energy dependence of p t angular correlations inferred from mean-p(t) fluctuation scale dependence in heavy ion collisions at the SPS and RHIC
 STAR Collaboration (J. Adams *et al.*). May 2006. 10 pp.
 Published in J.Phys. G34 (2007) 451-466

17. Strange baryon resonance production in $s(\text{NN})^{**}(1/2) = 200\text{-GeV}$ p+p and Au+Au collisions
 STAR Collaboration (B.I. Abelev (Yale U.) *et al.*). Apr 2006. 6 pp.
 Published in Phys.Rev.Lett. 97 (2006) 132301

18. Direct observation of dijets in central Au+Au collisions at $s(\text{NN})^{**}(1/2) = 200\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Apr 2006. 6 pp.
 Published in Phys.Rev.Lett. 97 (2006) 162301

19. Event-by-event study of DCC-like fluctuation in ultra-relativistic nuclear collisions
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Published in Phys.Lett. B637 (2006) 161-169

23. Recent high-p(T) results from STAR
STAR Collaboration (C.A. Gagliardi *et al.*). 2005. 8 pp.
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24. Charm production in the STAR experiment at RHIC
STAR Collaboration (A.A.P. Suaide *et al.*). 2005. 8 pp.
Published in Eur.Phys.J. C43 (2005) 193-200

25. Open charm production from d + Au collisions in STAR
STAR Collaboration (M. Calderon de la Barca Sanchez *et al.*). 2005. 6 pp.
Published in Eur.Phys.J. C43 (2005) 187-192

26. Multiplicity and pseudorapidity distributions of charged particles and photons at forward
pseudorapidity in Au + Au collisions at $s(NN)^{1/2} = 62.4\text{-GeV}$
STAR Collaboration (J. Adams (Birmingham U.) *et al.*). Nov 2005. 17 pp.
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27. Proton - lambda correlations in central Au+Au collisions at $S(NN)^{1/2} = 200\text{-GeV}$
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29. Transverse-momentum $p(t)$ correlations on (η, ϕ) from mean- $p(t)$ fluctuations in Au-Au collisions at $s(\text{NN})^{1/2} = 200\text{-GeV}$
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Published in J.Phys. G32 (2006) L37-L48

30. Incident energy dependence of pt correlations at RHIC
STAR Collaboration (J. Adams (Birmingham U.) et al.). Apr 2005. 6 pp.
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31. Multi-strange baryon elliptic flow in Au + Au collisions at $s(\text{NN})^{1/2} = 200\text{-GeV}$
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32. Multiplicity and pseudorapidity distributions of photons in Au + Au collisions at $s(\text{NN})^{1/2} = 62.4\text{-GeV}$
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33. Distributions of charged hadrons associated with high transverse momentum particles in pp and Au + Au collisions at $s(\text{NN})^{1/2} = 200\text{-GeV}$
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34. Experimental and theoretical challenges in the search for the quark gluon plasma: The STAR Collaboration's critical assessment of the evidence from RHIC collisions
STAR Collaboration (John Adams (Birmingham U.) et al.). Jan 2005. 99 pp.
Published in Nucl.Phys. A757 (2005) 102-183

35. ALICE: Physics performance report, volume I
ALICE Collaboration (F Carminati (ed.) et al.). 2004. 247 pp.
Published in J.Phys. G30 (2004) 1517-1763

36. $K(892)^*$ resonance production in Au+Au and p+p collisions at $s(\text{NN})^{1/2} = 200\text{-GeV}$ at STAR
STAR Collaboration (J. Adams (Birmingham U.) et al.). Dec 2004. 16 pp.
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STAR Collaboration (J. Adams (Birmingham U.) et al.). Nov 2004. 25 pp.
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38. Minijet deformation and charge-independent angular correlations on momentum subspace (η , ϕ) in Au-Au collisions at $\sqrt{s(NN)}^{1/2} = 130\text{-GeV}$
STAR Collaboration (John Adams (Birmingham U.) et al.). Nov 2004. 6 pp.
Published in Phys.Rev. C73 (2006) 064907

39. Centrality and transverse momentum dependence of collective flow in 158-A-GeV Pb+Pb collisions measured via inclusive photons
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40. Azimuthal anisotropy in Au+Au collisions at $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$
STAR Collaboration (J. Adams (Birmingham U.) et al.). Sep 2004. 24 pp.
Published in Phys.Rev. C72 (2005) 014904

41. ALICE technical design report on forward detectors: FMD, T0 and V0
ALICE Collaboration (P Cortese (CERN) et al.). Sep 2004. 171 pp.
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42. Pseudorapidity asymmetry and centrality dependence of charged hadron spectra in d + Au collisions at $\sqrt{s(NN)}^{1/2} = 200\text{-GeV}$
STAR Collaboration (J. Adams (Birmingham U.) et al.). Aug 2004. 7 pp.
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43. Transverse momentum correlations and minijet dissipation in Au-Au collisions at $\sqrt{s(NN)}^{1/2}\text{-GeV}$
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STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2004. 15 pp.
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47. Transverse-momentum dependent modification of dynamic texture in central Au+Au collisions at $\sqrt{s(NN)} = 200\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2004. 6 pp.
 Published in Phys.Rev. C71 (2005) 031901
48. Hadronization geometry and charge-dependent number autocorrelations on axial momentum space in Au-Au collisions at $\sqrt{s(NN)} = 130\text{-GeV}$
 STAR Collaboration (John Adams et al.). Jun 2004. 6 pp.
 Published in Phys.Lett. B634 (2006) 347-355
49. Azimuthal anisotropy of photon and charged particle emission in Pb-208 + Pb-208 collisions at $158\text{-A-GeV}/c$
 WA98 Collaboration (M.M. Aggarwal et al.). Jun 2004. 18 pp.
 Published in Eur.Phys.J. C41 (2005) 287-296
50. phi meson production in Au + Au and p+p collisions at $\sqrt{s(NN)} = 200\text{-GeV}$
 STAR Collaboration (John Adams et al.). Jun 2004. 6 pp.
 Published in Phys.Lett. B612 (2005) 181-189
51. Centrality and pseudorapidity dependence of charged hadron production at intermediate p_T in Au + Au collisions at $\sqrt{s_{NN}} = 130\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Apr 2004. 11 pp.
 Published in Phys.Rev. C70 (2004) 044901
52. Production of $e^+ e^-$ pairs accompanied by nuclear dissociation in ultra-peripheral heavy ion collision
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Apr 2004. 6 pp.
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53. Photon and neutral pion production in Au + Au collisions at $\sqrt{s(NN)} = 130\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Jan 2004. 13 pp.
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54. Azimuthally sensitive HBT in Au + Au collisions at $\sqrt{s(NN)} = 200\text{-GeV}$
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Dec 2003. 6 pp.
 Published in Phys.Rev.Lett. 93 (2004) 012301
55. Cross-sections and transverse single spin asymmetries in forward neutral pion production from proton collisions at $\sqrt{s} = 200\text{-GeV}$
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56. Azimuthal anisotropy at RHIC: The First and fourth harmonics
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57. Interferometry of direct photons in central Pb-208+Pb-208 collisions at 158-A-GeV
 WA98 Collaboration (M.M. Aggarwal (Panjab U.) et al.). Oct 2003. 5 pp.
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58. Identified particle distributions in pp and Au+Au collisions at $s(NN)^{1/2} = 200$ GeV
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59. Pion, kaon, proton and anti-proton transverse momentum distributions from p+p and
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 STAR Collaboration (John Adams et al.). Sep 2003. 6 pp.
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 STAR Collaboration (J. Adams (Birmingham U.) et al.). Aug 2003. 6 pp.
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61. Pion kaon correlations in Au+Au collisions at $s(NN)^{1/2} = 130$ -GeV
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 6 pp.
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62. Multistrange baryon production in Au-Au collisions at $S(NN)^{1/2} = 130$ GeV
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 Published in Phys.Rev.Lett. 92 (2004) 182301
63. ρ_0 production and possible modification in Au+Au and p+p collisions at $S(NN)^{1/2} = 200$ -GeV
 STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 6 pp.
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 STAR Collaboration (J. Adams (Birmingham U.) et al.). Jul 2003. 9 pp.
 Published in Phys.Rev. C68 (2003) 044905
65. Rapidity and centrality dependence of proton and anti-proton production from Au-197 +

- Au-197 collisions at $(S(NN))^{1/2} = 130\text{-GeV}$
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jun 2003. 4 pp.
Published in Phys.Rev. C70 (2004) 041901
66. Evidence from d + Au measurements for final state suppression of high p(T) hadrons in Au+Au collisions at RHIC
STAR Collaboration (J. Adams (Birmingham U.) et al.). Jun 2003. 6 pp.
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67. Particle type dependence of azimuthal anisotropy and nuclear modification of particle production in Au + Au collisions at $s(NN)^{1/2} = 200\text{-GeV}$
STAR Collaboration (John Adams (UC, Davis) et al.). Jun 2003. 6 pp.
Published in Phys.Rev.Lett. 92 (2004) 052302
68. Transverse momentum and collision energy dependence of high p(T) hadron suppression in Au+Au collisions at ultrarelativistic energies
STAR Collaboration (J. Adams (Birmingham U.) et al.). May 2003. 6 pp.
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69. The STAR photon multiplicity detector
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70. ALICE: Addendum to the technical design report of the time of flight system (TOF)
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71. One, two and three particle distributions from 158-A-GeV/c central Pb + Pb collisions
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Published in Phys.Rev. C67 (2003) 014906
72. Particle density fluctuations
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Published in Nucl.Phys. A715 (2003) 339-348
73. Centrality dependence of charged neutral particle fluctuations in 158-A-GeV Pb-208 +

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M.M. Aggarwal, A. Agnihotri, Z. Ahammed, A.L.S. Angelis, V. Antonenko, V. Arefev, V. Astakhov, V. Avdeichikov, T.C. Awes, P.V.K.S. Baba et al.. 2002.

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WA98 Collaboration (Tapan K. Nayak (Calcutta, VECC) et al.). Aug 2001. 5 pp.

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77. Transverse mass distributions of neutral pions from Pb-208 induced reactions at 158-A-GeV

WA98 Collaboration (M.M. Aggarwal et al.). Aug 2001. 11 pp.

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78. Multiplicity distributions and charged neutral fluctuations

WA98 Collaboration (Tapan K. Nayak (Calcutta, VECC) et al.). Dec 2000. 15 pp.

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79. Localized charged neutral fluctuations in 158 A GeV Pb + Pb collisions

WA98 Collaboration (M.M. Aggarwal et al.). Dec 2000. 5 pp.

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80. Observation of direct photons in central 158-A-GeV Pb-208 + Pb-208 collisions

WA98 Collaboration (M.M. Aggarwal (Panjab U.) et al.). Jun 2000. 5 pp.

Published in Phys.Rev.Lett. 85 (2000) 3595-3599

81. Direct photon production in 158-A-GeV Pb-208 + Pb-208 collisions

WA98 Collaboration (M.M. Aggarwal et al.). Jun 2000. 56 pp.

e-Print: nucl-ex/0006007

82. Simulation of High energy nuclear events using HIJING model

Sood and Havinder Kaur, CECT, (2012)

Conferences/Workshops/Seminars attended

1. National Conference on Challenges in Emerging Computer Technologies (CECT' 2012) May 16-17, Rayat Bahara College of Engineering and Bio-Technology, Mohali. INDIA.
2. One day seminar programme in "Recent trends in Physics" Panjab University, Chandigarh, August 31, 2010.
3. b-jet Tagging in CMS heavy ion program. Korea Physics Society Meeting (KPS) Jeju Island, Seoul, October 15-20, 2007. b-jet Tagging : Techniques and Analysis Plan, CMS Annual Heavy Ion Meeting, CERN, July 15, 2007.
4. b-jet tagging for heavy ions (Pb-Pb) data. KIAS, Seoul, October 13, 2007.
5. Heavy Flavor (b-jet tagging) Analysis in CMS, CMS-Korea Group meeting, Koreaniversity, Seoul, July 16, 2007.
6. Introduction to b-jet tagging, Korea University Group meeting, April 26, 2007.
7. Heavy ion physics with LHC. Talk at International Workshop on "High Energy Physics in the LHC Era". December, 11-15, 2006. Valparaiso, Chile.
8. Production of Anti-centauro events in ultra-relativistic heavy ion collisions. (Poster), The 19th International Conference on ultra-relativistic Nucleus-Nucleus collisions, Quark Matter 2006, Shanghai, China, Nov. 14-20.
9. Talk at Royal Holloway Institute, London, CCLRC, August 4, 2006.
10. Fluctuations with WA98 and STAR, Invited talk at SCIPP, Santa Cruz, United States. April 27th, 2006.
11. Participated in American Physics Society (APS) Meeting, April 22-26, 2006, Dallas, Texas, TX, United States.
12. Possibility of Disoriented Chiral Condensate study with STAR. Poster presentation at 18th International Conference on Ultra-Relativistic Nucleus-Nucleus collisions, Quark Matter, 2005, Budapest, Hungary.
13. Disoriented Chiral Condensate with STAR, Bro Haven National Laboratory,
14. Fluctuations in charged particles and Photons produced in Pb-Pb collisions at 158A GeV, The Seventeenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, Quark Matter 2004, Oakland, January, 11-17.
15. DCC search in Pb-Pb Collisions by WA98 Collaboration, Poster presented in The 16th International Conference on ultra-relativistic Nucleus-Nucleus Collisions, Quark Matter 2002, Nantes, France, July 18-24, 2002.
16. Event-by-event search for charged-neutral fluctuations in Pb-Pb collisions at 158A GeV. Fourth International Conference on Physics and Astrophysics of Quark Gluon Plasma Nov. 26-30. 2001 India. International Workshop on ALICE detector and Physics with LHC, 21-24 Nov., 2001.
17. Poster on DCC results with WA98, International Symposium on Nuclear Physics. August, 2001. India.
18. Event-by-event search for DCC. M.M. Aggarwal, V.S. Bhatia, G. Sood and Y.P. Viyogi for WA98 Collaboration, Appeared in Proceedings of DAE

Symposium on Nuclear Physics, Hyderabad, Dec. 22-26, 2000.
19. Event-by-event DCC search in Pb-Pb collisions. WA98 Collaboration, Appeared
in DAE Symposium of Nuclear Physics, Vol. 42B, Dec. 27-31, 1999.

Name: Dr. Mandeep Kaur

Designation: Assistant Professor

Qualification: M.Sc (Hons), M.Phil, Ph.D, GATE Qualified

Area of Specialization: Theoretical Nuclear Physics



Teaching Experience: (5 years)

1. Five years (as Assistant Prof.), Post Graduate Govt. College for Girls, Sector-11, Chandigarh since August, 2017.

Courses Taught:

M.Sc. (Physics)

- Quantum Physics I
- Quantum Physics II
- Particle Physics II
- Condensed matter Physics II

B. Sc. (Hons.)

- Analog and Digital Electronics
- Statistics and Numerical Techniques

B. Sc.

- Quantum Physics
- Electricity and Magnetism
- Nuclear and Particle Physics

Awards and Distinction:

- Gold Medalist in M.Phil Physics.
- JRF in Basic Scientific Research (BSR) Meritorious fellowship by U.G.C (2012-14).
- SRF in Basic Scientific Research (BSR) Meritorious fellowship by U.G.C (2015-17).

Publications:

1. Mandeep Kaur, Sakshi Gautam, Rajeev K. Puri, "Fragmentation in isotopic and isobaric systems as probe of density dependence of nuclear symmetry energy", Nuclear Physics A, Volume 955, 2016, Pages 133-144, ISSN 0375-9474, <https://doi.org/10.1016/j.nuclphysa.2016.06.008>.
2. Mandeep Kaur and Sakshi Gautam "Influence of the constant and density-dependent scaling of the scattering cross-section on reaction dynamics" Journal of Physics G:

Nuclear and Particle Physics, Volume 43, 025103 (2016), ISSN: 0954-3899, <https://doi.org/10.1088/0954-3899/43/2/025103>.

3. Mandeep Kaur, Gautam, S. "On the isospin effects in the geometry of vanishing flow in heavy-ion collisions", *Phys. Part. Nuclei Lett.* **10**, 228–233 (2013), ISSN: 1547-4771 <https://doi.org/10.1134/S1547477113030084>
4. Mandeep Kaur, Nuclear dynamics at the geometry of vanishing flow in heavy-ion collisions. *Phys. Part. Nuclei Lett.* **10**, 521–527 (2013), ISSN: 1547-4771 <https://doi.org/10.1134/S1547477113060149>
5. Yogesh K. Vermani and Mandeep Kaur, "Remarks on the non-equilibrium effects and collision dynamics in heavy-ion collisions", *Physica Scripta*, Volume 82, 045202, (2010), ISSN: 1402-4896, <https://doi.org/10.1088/0031-8949/82/04/045202>

List of papers published in Conferences:

1. Mandeep Kaur, "In-medium effects via nuclear stopping in asymmetric colliding nuclei", AIP Conference Proceedings 1728, 020214 (2016), <https://doi.org/10.1063/1.4946265>.
2. Mandeep Kaur *et al.*, Influence of in-medium effects via nucleon-nucleon scattering cross-section on transverse flow and nuclear stopping, Proceedings of the DAE Symposium On Nucl. Phys. **59**, 420 (2014).
3. Mandeep Kaur *et al.*, Influence of density dependent cross-section on charge distribution, Proceedings of the DAE Symposium on Nucl. Phys. **58**, 386 (2013).
4. Mandeep Kaur *et al.*, Density and thermalization in heavy-ion reactions at the geometry of vanishing flow, Proceedings of the DAE Symposium on Nucl. Phys. **57**, 708 (2012).
5. Mandeep Kaur, Study of collision dynamics in heavy-ion reactions, Proceedings of the DAE Symposium on Nucl. Phys. **56**, 808 (2011).
6. Mandeep Kaur *et al.*, Geometry of vanishing flow: effect of symmetry energy and isospin-dependent nucleon-nucleon cross-section, Proceedings of the DAE Symposium on Nucl. Phys. **56**, 806 (2011).

List of papers presented in Conferences:

1. Mandeep Kaur with title "Synthesis and characterization of Graphene and its oxides" in National Seminar on Recent Trends in Science and Technology organized by GTB Khalsa College held on March 7, 2018.
2. Gonika and Mandeep Kaur with title "Influence of structural effect via nuclear radius on thermalization in heavy-ion collisions" Vol. PP-13, p.29, Feb. 15-16, 2016 in National Conference on Recent Trends in Nuclear Physics, Aligarh Muslim University, Aligarh.
3. Gonika and Mandeep Kaur with title "Influence of nuclear charge radius on the sensitivity of nuclear stopping towards scattering cross section", Vol. PP-61, p. 56,

Feb. 29-March 2, 2016 in 10th Chandigarh Science Congress, Physics Department Panjab University, Chandigarh.

4. Mandeep Kaur with title “In-medium effects via Nuclear Stopping in asymmetric colliding nuclei” in International Conference on Condensed Matter and Applied Physics ICC 2015, October 30-31, 2015.
5. M. Kaur *et al.*, with title “Influence of in-medium effects via nucleon-nucleon scattering cross-section on transverse flow and nuclear stopping” Vol. 59, p.420, Dec. 08-12, 2014, with an Orientation Course on Dec., 07, 2014 at 59th DAE Symposium on Nuclear Physics, Banaras Hindu University.
6. Mandeep Kaur with title “Influence of in-medium nucleon-nucleon cross-section on thermalization in heavy-ion collisions” in National Conference on Emerging Challenges in Nuclear and Many-Body Physics (ECNMP-2014), Nov. 10-11, 2014 held at University of Jammu.
7. Mandeep Kaur *et al.*, with title “Influence of density dependent cross-section on charge distribution” Vol. 58, p.386, Dec. 02-06, 2013, with an Orientation Course on Dec., 01, 2013 at International Symposium on Nuclear Physics, Bhabha Atomic Research Centre, Mumbai.
8. Mandeep Kaur *et al.*, with title “Density and thermalization in heavy-ion reactions at the geometry of vanishing flow” Vol. 57, p.708, Dec. 03-07, 2012, at DAE Symposium on Nuclear Physics, Department of Physics and Astrophysics, University of Delhi.
9. Mandeep Kaur *et al.*, with title “Geometry of vanishing flow: effect of symmetry energy and isospin-dependent nucleon-nucleon cross-section” Vol. 56, p.806, Dec., 26-30, 2011, at 56th DAE-BRNS Symposium on Nuclear Physics, Visakhapatnam, A.P., India.
10. Mandeep Kaur, with title “Study of collision dynamics in heavy-ion reactions” Vol. 56, p.808, Dec. 26-30, 2011, at 56th DAE-BRNS Symposium on Nuclear Physics, Visakhapatnam, A.P., India.

List of Conferences/Workshops/Seminars attended:

1. Indo-French Seminar on “Multifragmentation, Collective Flow and Sub Threshold Particle Production in Heavy Ion Reactions”, Feb. 4-6, 2019 at Department of Physics, Panjab University, Chandigarh.
2. International Workshop on “Shock Waves in Science, Engineering & Medicine” organized by Post Graduate Govt. College for Girls, Sector-11, Chandigarh held on 23 -24 February, 2018.
3. One day Capacity Building Workshop on “Recent Trends in Science and Technology” held at Post Graduate Govt. College for Girls, Sec-11, Chandigarh on Feb. 28, 2018.
4. International workshop on “Recent Trends in Engineering and Material Sciences (ICEMS-2016)” organized by Jaipur National University, Jaipur during March 17-19, 2016.
5. Two-day Seminar Programme on “Trends in Frontiers of Physics” held at Department of Physics, Panjab University, Chandigarh during Feb. 15-16, 2011.
6. Three day National Theme Workshop on Nuclear Reaction Mechanism held at Department of Physics, Panjab University, Chandigarh during March. 17-19, 2010.

7. 4th Chandigarh science Congress (CHASCON 2010), 19-20 March, 2010 held at Department of Physics, Panjab University, Chandigarh.

Faculty Development Programme:

1. Two Weeks Faculty Development Programme on "QUANTITATIVE METHODS FOR DATA ANALYSIS" from August 12 - August 25, 2020 at Ramanujan College, University of Delhi and obtained grade A+.

List of Webinar attended:

1. Online Lecture on "THE MASS OF SMALL THINGS" organized by Indian Association of Physics Teachers Regional Council (Delhi & Haryana) held on 24th July 2021.
2. Two days seminar cum e-workshop on "Experimental Electronics" organized by Department of Physics, Hans Raj Mahila Mahavidyalaya on 31st July to 1st Aug., 2020.
3. Two days International Webinar on "Redrawing the Domestic Paradigm: Family Bonding, Gender Concerns and Health Issues amidst COVID-19" organized by Post Graduate Govt. College, Sec-11, Chandigarh held on 16-17 July, 2020.
4. National Webinar on "Mentoring Teachers for Effective Online Teaching" organized by Department of Commerce, Daulat Ram College, University of Delhi, held on July 4, 2020.
5. Online Webinar on "Machine Learning and Techniques" organized by Department of Information Technology, Kings Engineering College, Chennai on 20th June, 2020.
6. Attended webinar on "Nanoclay Application for Environment and Energy" organized by Department of Applied Science, Poornima Institute of Engineering and Technology held on June 18th, 2020.
7. Online Webinar on "how to Develop Web Application" organized by Department of Computer Science and Engineering, Kings Engineering College, Chennai held on June 13, 2020.
8. One day International Virtual Conference on "Novel Corona and Novel Challenges: Life Ahead with Covid-19" organized by Sri Guru Gobind Singh College Sector 26, Chandigarh on June 03, 2020.
9. Webinar on Art and Science of Mentoring organized by Physics Department, Daulat Ram College, University of Delhi held on June 1, 2020.
10. National Webinar on "Preventative healthcare diagnostic platforms based on Micro-Nanotechnologies" organized by Department of Science, Lady Irwin College on 30th May, 2020.

Name: Dr. Anterpreet Kaur

Designation: Assistant Professor

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

Area of Specialization: Experimental High Energy Physics



Teaching Experience: 4 years

1. Assistant Professor in Post Graduate Govt College for Girls, Sector 11, Chandigarh Since December 2019.
2. Assistant Professor (Contractual) in Mehr Chand Mahajan DAV College for Women, Sector - 36 A, Chandigarh from July 2018-December 2019.

Courses Taught

M.Sc. (Physics)

- Classical Electrodynamics
- Computational Physics

B. Sc. (Hons.)

- Computational Physics

B. Sc. (General)

- Nuclear and Particle Physics
- Electricity and Magnetism

Awards and Distinction:

- Member of the CMS collaboration, CERN, Geneva, Switzerland, 2014-2021.
- LPC Guests and Visitors (G&V) Fellow, Fermi National Accelerator Laboratory USA (FermiLab), March-September, 2017.
- Senior Research Fellow (SRF) in Basic Scientific Research (BSR) Meritorious Fellowship by University Grants Commission (UGC), 2017-2018
- Junior Research Fellow (JRF) in Basic Scientific Research (BSR) Meritorious Fellowship by University Grants Commission (UGC), 2015-2017
- Junior Research Fellow in DST Research Project entitled “Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization”, 2014-2015
- Junior Research Fellow in DST Research Project entitled “Study of new particles with the CMS Detector at the Large Hadron Collider and Heavy Ions Physics using LHC at CERN-CMS experiment”, 2013-2014.
- Qualified National Eligibility Test (NET) (Lecturership (L.S.)), December 2012

Publications:

(I am a co-author of more than 500 Journal Articles with the CMS Collaboration and the full list of publications can be found at <https://inspirehep.net/authors/1233182>) :

1. A. Kaur, M. Kaur, R. Aggarwal, “Investigation of particle production in h-A collisions using statistical distributions”, International Journal of Modern Physics E, Vol. 30, No. 02, 21500075 (2021), ISSN : 1793-6608, doi:10.1142/s0218301321500075 [arXiv:2005.13968 [hep-ph]]
2. M. Kaur and Anter P. Kaur, “Subjet Multiplicities at LHC Energies and the QCD Color Factor Ratio C_A/C_F ”, Advances in High Energy Physics 2013, Article ID 585809 (2013) doi:10.1155/2013/585809.
3. A. Kaur et al., “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Eur. Phys. J. C 76, no. 8, 451 (2016) doi:10.1140/epjc/s10052-016-4286-3 [arXiv:1605.04436 [hep-ex]].
4. A. Kaur et al., “Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV”, JHEP 1703, 156 (2017) doi:10.1007/JHEP03(2017)156 [arXiv:1609.05331 [hep-ex]].
5. A. Kaur et al., “Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions”, Eur. Phys. J. C 77, no. 11, 746 (2017) doi:10.1140/epjc/s10052-017-5286-7 [arXiv:1705.02628 [hep-ex]].
6. A. Kaur et al., “Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV”, Eur. Phys. J. C 78, no. 7, 566 (2018) doi:10.1140/epjc/s10052-018-6033-4 [arXiv:1712.05471 [hep-ex]].
7. A. Kaur et al., “Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s} = 13$ TeV”, JHEP 1811, 113 (2018) doi:10.1007/JHEP11(2018)113 [arXiv:1807.05974 [hep-ex]].
8. A. Kaur et al., “Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV”, JHEP 1710, 131 (2017) doi:10.1007/JHEP10(2017)131 [arXiv:1706.05868 [hep-ex]].
9. A. Kaur et al., “Measurement of differential cross sections in the kinematic angular variable φ^* for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV”, JHEP 1803, 172 (2018) doi:10.1007/JHEP03(2018)172 [arXiv:1710.07955 [hep-ex]].
10. A. Kaur et al., “Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Eur. Phys. J. C 79, no. 3, 269 (2019) doi:10.1140/epjc/s10052-019-6752-1 [arXiv:1811.10021 [hep-ex]].
11. A. Kaur et al., “Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”, JHEP 1812, 117 (2018) doi:10.1007/JHEP12(2018)117 [arXiv:1811.00588 [hep-ex]].
12. A. Kaur et al., “Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Eur. Phys. J. C 79, no. 1, 20 (2019) doi:10.1140/epjc/s10052-018-6482-9 [arXiv:1807.00782 [hep-ex]].
13. A. Kaur et al., “Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s} = 8$ and 13 TeV”, Phys. Lett. B 789, 19 (2019) doi:10.1016/j.physletb.2018.11.007 [arXiv:1806.11073 [hep-ex]].
14. A. Kaur et al., “Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Eur. Phys. J. C 78, no. 11, 965 (2018) doi:10.1140/epjc/s10052-018-6373-0 [arXiv:1804.05252 [hep-ex]].
15. A. Kaur et al., “Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Eur. Phys. J. C 78, no. 7, 589 (2018) doi:10.1140/epjc/s10052-018-6049-9 [arXiv:1712.09814 [hep-ex]].

16. A. Kaur et al., “Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”, Phys. Rev. D 96, no. 7, 072005 (2017) doi:10.1103/PhysRevD.96.072005 [arXiv:1707.05979 [hep-ex]].
17. A. Kaur et al., “Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV”, JHEP 1611, 147 (2016) doi:10.1007/JHEP11(2016)147 [arXiv:1607.06975 [hep-ex]].
18. A. Kaur et al., “Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV”, Phys. Lett. B 766, 268 (2017) doi:10.1016/j.physletb.2017.01.011 [arXiv:1607.06943 [hep-ex]].
19. A. Kaur et al., “Measurement of the ZZ production cross section and $Z \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$ branching fraction in pp collisions at $\sqrt{s} = 13$ TeV”, Phys. Lett. B 763, 280 (2016) Erratum: [Phys. Lett. B 772, 884 (2017)] doi:10.1016/j.physletb.2017.01.011 [arXiv:1607.08834 [hep-ex]].
20. A. Kaur et al., “Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV”, Eur. Phys. J. C 77, no. 2, 92 (2017) doi:10.1140/epjc/s10052-016-4573-z [arXiv:1608.07561 [hep-ex]].

Books Published:

1. Ms. Raman Chadha & **Dr. Anterpreet Kaur**, “A Text Book Of Quantum Physics-II, FOR B.SC. SEM. 4, (P.U.) 2022. Mohindra Publishing House, ISBN : ISBN : 9789390758890
2. Dr. Neelam Malhotra, Ms. Raman Chadha & **Dr. Anterpreet Kaur**, “A Text book of Quantum Physics-I”, for B.Sc. Sem. 3, (P.U.) 2021. Mohindra Publishing House, ISBN : 978-93-90758-40-1
3. **Anterpreet Kaur**, “**Subjet structure in p-p collisions at LHC Energies**”. 2018. LAMBERT Academic Publishing, Germany. ISBN : 978-613-9-85151-5

List of papers in Conference Proceedings:

1. A. Kaur, “Differential jet cross sections at the CMS experiment”, PoS DIS 2018, 091 (2018). doi:10.22323/1.316.0091.
2. A. Kaur, “Measurements of event properties and multi-differential jet cross sections and impact of CMS measurements on Proton Structure and QCD parameters”, EPJ Web of Conferences 172 02001 (2018). doi:10.1051/epjconf/201817202001.
3. A. Kaur, “Extraction of the Strong Coupling Constant from the Measurement of Inclusive Multijet Event Cross Sections in pp Collisions at Center of Mass Energy of 8 TeV”, In: Naimuddin M. (eds) XXII DAE High Energy Physics Symposium, Springer Proceedings in Physics, 203, 341–344 (2018) doi:10.1007/978-3-319-73171-1_178.

List of papers presented in Conferences, Workshops and Symposiums:

1. A. Kaur et al., “Differential jet cross sections at the CMS experiment”, DIS2018: XXVI International Workshop on Deep Inelastic Scattering and Related Subjects, 16-20 Apr 2018, Kobe University, Kobe (Japan)
2. A. Kaur et al., “Measurements of event properties and multi-differential jet cross sections and impact of CMS measurements on Proton Structure and QCD parameters”, XLVII International Symposium on Multiparticle Dynamics

- (ISMD2017), 11-15 September, 2017, Tlaxcala City, Mexico
3. A. Kaur et al., “Inclusive jets results from CMS”, International Workshop on Frontiers in Electroweak Interactions of Leptons and Hadrons, 2-6 November, 2016, Aligarh, India
 4. A. Kaur et al., “Measurement of inclusive multijet cross sections in pp collisions using the CMS detector”, 11th Chandigarh Science Congress, CHASCON 2017, 9-11 March, 2017, Panjab University, Chandigarh, India
 5. A. Kaur et al., “Extraction of the strong coupling constant from the measurement of inclusive multijet event cross-sections in pp collisions at center of mass energy of 8 TeV”, XXII DAE-BRNS High Energy Physics Symposium 2016, 12-16 December, 2016, Delhi, India

Faculty Development Programme attended:

- 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from September 01- September 30, 2020 and obtained a grade A+
- Two Week Faculty Development Programme on “Managing Online Classes And Co-Creating Moocs 3.0”, organized by Teaching Learning Centre, Ramanujan College, University of Delhi from July 25, 2020 to August 10, 2020 and obtained a grade A+

List of Webinars attended:

1. Online National Seminar on “Recent Advances in Physics (Second in Series)” organized by BOSONS-The Physics Club, Department of Physics, Goswami Ganesh Dutta Sanatan Dharma College, Chandigarh on 11 September, 2021.
2. Online Lecture on “The Mass Of Small Things” by Prof. Amitava Raychaudhuri (Professor Emeritus, Physics Department of the Science College, University of Calcutta, Kolkata) organized by Indian Association of Physics Teachers (IAPT) - RC1 on 24 July, 2021.
3. Workshop on “Online Experiments for Classical Mechanics Lab using Tracker Software” organized by Indian Association of Physics Teachers (IAPT) - RC3 on 17 July, 2021.
4. Online Webinar on “How To Develop Web Application” organized by Department of Computer Science & Engineering, Kings Engineering College, Chennai, India on 13 June, 2020.
5. Online International Webinar on “Applications of Multi-Modality Imaging in Nuclear Medicine” organized by the Department of Physics of Mehr Chand Mahajan DAV College for Women, Sector-36 A Chandigarh, India on 10 June 2020.
6. One Day International Virtual Conference on “Novel Corona and Novel Challenges: Life Ahead with Covid -19” organized by Sri Guru Gobind Singh College, Sector 26, Chandigarh, India, held on 3 June, 2020.
7. Webinar on “Art and Science of Mentoring” organized by Physics Department, Daulat Ram College, University of Delhi, India on 1 June, 2020.
8. National Webinar on “Preventative healthcare diagnostic platforms based on Micro-Nanotechnologies ” organized by Department of Science, Lady Irwin College, University of Delhi, India on 30 May, 2020.
9. Webinar on “Digital Transformation” organized by Department of Electrical Engineering and Electronics & Communication Engineering, Poornima Institute of

- Engineering and Technology, Jaipur, Rajasthan on 29 May, 2020.
10. Webinar on “Future Prospects Of Education Post-Covid-19” organized by Department of English Studies, Akal University, Talwandi Sabo, Bathinda, Punjab on 29 May, 2020.

Name: Dr. Gaganpreet

Designation : Assistant Professor

Qualification: M.Sc. (Hons.) Physics, Ph.D., Post Doctorate

Area of Specilization : Computational Materials Science



Teaching Experience: (3 years)

- Assistant Professor, Post Graduate Government College for Girls, Sector 11 Chandigarh since December, 2019

Research Experience: Approx. 6.5 Years

- DST Women Scientist, Indian Institute of Science Education and Research, Mohali (1 December, 2017 to December, 2020)
- Post-Doctoral Research Fellow, Indian Institute of Science Education and Research, Mohali (1 March to 30 November 2017)
- Post-Doctoral Fellow Institute of Nano Science and Technology, Sector-64, Ph-X, Mohali (September 2014 to August 2016)
- Research Associate, Indian Institute of Technology, Delhi (April 1, 2014 to August 2014)
- Scientist C, Institute of Nano Science and Technology, Sector-64, Ph-X, Mohali (Feb. 2013 to March 2014).

Courses Taught

M.Sc. (Physics)

- Condensed Matter Physics
- Statistical Mechanics
- Particle Physics I
- Nuclear Physics

B. Sc. (Hons.)

- Computational Physics

B. Sc.

- Nuclear and Particle Physics
- Condensed Matter Physics

Awards and Distinction:

- Received International Travel grant from SERB, New Delhi for attending Graphene 2019 Conference at Rome, Italy
- Received travel grant from CICS, Chennai for attending Graphene 2019 Conference at Rome, Italy
- Best 1st Oral presentation award, at IEMPHYS-2019, held at IEM, Kolkata.

- DST Women Scientist A Project awarded November 2017.
- Best Poster Award in 57th DAE-Solid state Physics Symposium, held at Indian Institute of Bombay, 3-7 December 2012.
- Secured 1st position for the best Research Proposal in Student Research Convention (ANVESHAN) held at Panjab University Chandigarh on May 21, 2010 and Presented in 3rd North Zone Student Research Convention held at University of Jammu, India.
- Among top 10% in Part A National Graduate Physics Examination (NGPE) 2005-2006 Dept. of Physics, Panjab University, Chandigarh, India.

Publications

1. Y. Pathania* and Gaganpreet*, Self-passivated nanoporous phosphorene as a membrane for water desalination, *Desalination*, 114777, **497** (2021). *Equal contribution of both the authors.
2. Harshita Trivedi, Gaganpreet. Arash Boochani, Naresh Shagya, Jayeeta Lahiri, Zohreh Ghoannevis, Investigating optical, structural and morphological properties of polycrystalline CdTe thin-film deposited by RF magnetron sputtering, *Materials letters: X*, 100087, **11** (2021).
3. Gaganpreet, Enhanced sensitivity of doped phosphorene for toxic gas sensing: NH₃ and NO₂, *Applied surface Science*, 144967, **507**, (2020).
4. Munish Shorie, Harmanjit Kaur, Gaganpreet Chadha, Kulvinder Singh, and Priyanka, Sabherwal, Graphitic Carbon nitride QDs impregnated biocompatible agarose cartridge for removal of heavy metals from contaminated water samples, *J. of Hazardous Materials*, 629, **367** (2019).
5. Gaganpreet Chadha and Priyanka Chug, Enhanced CO₂ adsorption on doped Au₃₂ gold nanocages: A density functional approach, *Materials Research Express*, IOP, 065038, **5(6)** (2018).
6. Gaganpreet and Sunita Srivastava, Interfacial Layer Effect on Specific Heat of Colloidal Suspensions, *Advanced material letters*, 645, **8(5)** (2017).
7. Vinod Kumar, Jack R. Brent, Munish Shorie, H. Kaur, Gaganpreet Chadha, Lan Nguyen, Edward A. Lewis, Nicky Savjani, Paul D. McNaught, Sarah J. Haigh, David J. Lewis, Paul O'Brien, A.K. Ganguli, Priyanka Sabherwal, Nanostructured Aptamer-Functionalised Phosphorene Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker, *Applied Materials and Interface*, 22860, 8, (2016).
8. Gaganpreet and Sunita Srivastava, Viscosity of Nanofluids: Particle Shape and fractal Aggregate, *Phys. And Chemistry of Liquids: An International Journal*, 174, **53** (2014).
9. Gaganpreet, Sunita Srivastava and K. Tankeshwar, Role of triplet correlations in anomalous self diffusion coefficient, *Chem. Phys.*, 60, **40** (2012).

10. Gaganpreet and Sunita Srivastava, Effect of aggregation on thermal conductivity and viscosity of nanofluids, *Appl Nanosci.* 325, **2** (2012).

Book chapter

1. Y. Pathania* and Gaganpreet*, Developments of black phosphorous based membrane material for water treatment Bioremediation of Industrial. (Accepted) 2022 *Equal contribution of both the authors.
2. Book Chapter: Gaganpreet, S. Srivastava and K. Tankeshwar, Transport properties of Colloids in bulk and in confinement at nanoscale **Book Title:** Innovation in Nanomaterials, 169-194, ISBN No. 978-1-63483-572-5, Nano Science and Technology, Nova Science Publishers, (2015).

Publications in the Conference Proceedings

1. Gagandeep Kaur, Shuchi Gupta, Gaganpreet and Keya Dharamvir, Hydrogen Molecule on Lithium Adsorbed Graphene: a DFT Study, *AIP Conf. Proc.* 020434-1, **1728** (2016).
2. Gaganpreet and Sunita Srivastava, Influence of particle shape on the viscosity of Nanofluids *AIP Conf. Proc.* 984, **1512** (2013).
3. Gaganpreet and Sunita Srivastava, Effect of Particle Shape and Interfacial Layer in Thermal Conductivity and Viscosity of Nanofluids, *AIP Conf. Proc.* 407, **1349** (2011).
4. Gaganpreet, Sunita Srivastava and K. Tankeshwar Anomalous behavior of Mori coefficients for the Gaussian core Fluid, *AIP Conf. Proc.* 263, **1393** (2011).

List of papers presented in conferences/workshops/seminars

1. **Oral Presentation**, Toxic gas adsorption on doped phosphorene: A density functional approach, at IEMPHYS 2019 November 14-16, 2019 Kolkata.
2. **Poster presentation**, Band gap engineering of phosphorene for toxic gas sensing properties, Graphene 2019, June 25-28, Rome Italy
3. **Poster Presentation**, Doped phosphorene nanosheet based gas sensor: an application to NH₃, Singapore September 19-20, 2017.
4. **Oral Presentation**, Interfacial Layer Effect on Specific Heat of Colloidal Suspensions, RAINSAT, Sathyabama University 8-10 July, 2015.
5. **Poster Presentation**, Dynamics of Colloidal Dispersion Inside nanochannel, ICIACS Oct. 30 to November 1, 2013, Panjab University, Chandigarh, India.
6. **Poster Presentation**, Anomalous behavior of Mori coefficients for the Gaussian core Fluid, International Conference on Advances in Condensed & Nano Materials, Department of Physics, Panjab University, Chandigarh, India, 23–26 February, 2011.
7. **Talk and Poster Presentation**, Investigation on static and Dynamical Properties of

Nanofluids, Research Proposal in Student Research Convention (**ANVESHAN**) May 21, SRC 2010, Panjab University Chandigarh.

8. **Talk** on Research Proposal, Investigation on static and Dynamical Properties of Nanofluids, 3rdNorth Zone Student Research Convention held at University of Jammu, India. 2010.
9. **Talk**, Effect of Particle Shape and Interfacial Layer in Thermal Conductivity and Viscosity of Nanofluids, 55th DAE Solid State Physics Symposium, Manipal University, Manipal, India, 26-30 December, 2010.
10. **Poster Presentation**, Role of interfacial layer and shape in the effective thermal conductivity of nanofluids, CHASCON 2010 Chandigarh Science Congress, Department of Physics, Centre of Advanced Studies, Panjab University, Chandigarh, India, 26-28 Feb, 2010.
11. **Talk and Poster Presentation**, Shape optimization using hyperbolic function CHASCON -2009, 3rd Chandigarh Science Congress, Department of Physics, Centre of Advanced Studies, Panjab University, Chandigarh, India, 26-28 Feb, 2009.
12. **Poster Presentation**, Fractal Distribution of size of nanoparticles in nanofluids. CHASCON-2008, 2nd Chandigarh Science Congress, Department of Physics, Centre of Advanced Studies, Panjab University, Chandigarh, India, Mar 2008

Conferences/Schools Attended

1. National workshop on computational Nanoscience, Aug 20-23 2013, IISc. Bangalore.
2. 57th DAE Solid State Physics Symposium, Indian Institute of Physics Bombay, India, 3-7, December 2012.
3. Workshop on Parallel Computing using HPPC, Department of Physics, Panjab University, Chandigarh 2-3 Mar 2012.
4. International Conference on Advanced Nanomaterial and Nanotechnology, Department of Physics, Indian Institute of Guwahati, 8-10 December 2011.
5. International Conference on Advances in Condensed & Nano Materials, Department of Physics, Panjab University, Chandigarh, India, 23–26 February, 2011.
6. Workshop on Characterization Tools for Materials, Department of Physics, Panjab University Chandigarh February 22, 2011.
7. 55th DAE Solid State Physics Symposium, Manipal University, Manipal, India, 26-30, December 2010.
8. Seminar Cum workshop on First Principle And other Simulation Methods in Condensed Matter Physics, Himachal Pradesh University India March 22-29 2010.
9. School on Understanding Molecular Simulation, International Center of Material Science, Jawaharlal Nehru Center for Advanced Scientific Research Bengaluru, India, 17-28 August, 2009

LABORATORY STAFF PROFILE

LABORATORY STAFF

| S. No. | Name | Qualification | Designation | Date of Joining | Experience |
|--------|---|---------------------------------|------------------------------|-------------------------------------|------------|
| 1. |  Rakesh Guliani | Graduation | Junior Lecturer Assistant | 10 th July, 1990 | 32 years |
| 2. |  Indu | MA (Sociology) | Junior Lecturer Assistant | 21 st February, 2007 | 15 years |
| 3. |  Rajesh Kumar | Diploma in Computer Engg. | Junior Lecturer Assistant | 21 st November, 2008 | 14 years |
| 4. |  Naresh | I.T.I Diploma in Electrical | Assistant Technician | 19 th February, 1999 | 23 years |
| 5. |  Gursewak Singh | Graduation | Lab Attendant | 28 th August, 2012 | 10 years |
| 6. |  Deepak | Matric | Lab Attendant | 13 th September, 2010 | 12 years |

RESEARCH PROJECT

Dr. Gaganpreet, has been awarded “DST Women Scientist A”, research project (SR/WOS-A/PM-30/2017) on Functionalized phosphorene based single electron transistor (SET) for toxic gas sensing application (Grant of Rs 24.56 Lakhs).

Project Summary

This project focused on the theoretical aspects of chemical sensing of toxic gases such as NO₂, NH₃, H₂S, CO, PH₃, AsH₃ which are hazardous to humans and can cause a number of health problems. 2D based single electron transistor (SET) design and the device performance has been investigated using functionalized phosphorene to understand their performance for the detection and sensitivity of different gas molecules. DFT based ab-initio calculations were performed to understand the adsorption of gas molecules on the 2D surfaces. Then the detailed operation and performance of a functionalized phosphorene based SET has been studied. Findings of this project are expected to be advantageous for designing archetype sensing device and the analysis of the sensor performance before going for expensive experimentation.

List of Publications under this project

1. Y. Pathania* and Gaganpreet*, Self-passivated nanoporous phosphorene as a membrane for water desalination, *Desalination*, 114777 (pp 7), 497 (2021). *Equal contribution of both the authors.
2. Harshita Trivedi, Gaganpreet, Arash Boochani, Naresh Shagya, Jayeeta Lahiri, Zohreh Ghoannevis, Investigating optical, structural and morphological properties of polycrystalline CdTe thin-film deposited by RF magnetron sputtering, *Materials letters: X*, 100087 (pp 5), 11 (2021).
3. Gaganpreet, Enhanced sensitivity of doped phosphorene for toxic gas sensing: NH₃ and NO₂, *Applied surface Science*, 144967 pp(8), 507, (2020).
4. Munish Shorie, Harmanjit Kaur, Gaganpreet Chadha, Kulvinder Singh, and Priyanka, Sabherwal, Graphitic Carbon nitride QDs impregnated biocompatible agarose cartridge for removal of heavy metals from contaminated water samples, *J. of Hazardous Materials*, 629 (pp 10), 367 (2019).
5. Gaganpreet Chadha and Priyanka Chug, Enhanced CO₂ adsorption on doped Au₃₂ gold nanocages: A density functional approach, *Materials Research Express*, IOP, 065038 (pp 14), 5(6) (2018).

COURSES OFFERED

The Department offers courses in M.Sc. Physics, B.Sc. in Non Medical and Computer Science and B.Sc. Honours in Physics. These courses with different foci provide the desired breadth and inter-disciplinary exposure to the students so that they can pursue any of the diverse areas of Physics.

| Courses | Year of commencement | Seats |
|------------------------|----------------------|-------|
| B.Sc. Non Medical | 1959 | 100 |
| B.Sc. Computer Science | 2004 | 60 |
| B.Sc. (Hons.) Physics | 2016 | 25 |
| M.Sc. Physics | 2019 | 20 |

NEW COURSE: M.Sc. Physics (w.e.f. 2019)

The post-graduation in Physics has been introduced from the session 2019 onwards. Our Physics faculty is well trained (3 Post-doctoral fellows and all are Doctorates in Physics). Labs are fully equipped and functional. The M.Sc. Physics curriculum includes topics such as Mathematical Methods, Quantum Mechanics, Solid-State Physics, Atomic Spectroscopy, Relativity and Cosmology, Radiation theory, Statistical Mechanics, Computer applications in Physics, Astrophysics and Classical Mechanics. This course prepares students to become research analysts, educationalists, public sector or to work in healthcare, pharmaceutical companies, hospitals, medical research labs and environment protection companies.



Group Photograph of M.Sc. Physics – Ist Batch 2019-2021

INFRASTRUCTURE

INFRASTRUCTURE

| S. No. | Description | Nos. |
|---------------|-----------------------------------|-------------|
| 1. | Laboratories | 3 |
| 2. | Computer Laboratory | 1 |
| 3. | Dark Rooms | 3 |
| 4. | Store | 1 |
| 5. | Technician Room | 1 |
| 6. | Books in the Departmental Library | 547 |
| 7. | Equipment | 1657 |
| 8. | Computers | 08 |
| 9. | Projector | 01 |

LIST OF APPARATUS / ARTICLE (PG Classes)

| S.No. | Items | Page No. | Qty. |
|--------------|--|-----------------|-------------|
| 1. | Amplitude Modulation | 348 | 1 |
| 2. | Air Track | 349 | 1 |
| 3. | Analog to Digital | 359 | 1 |
| 4. | Advance Frequency Modulation and Demodulation (M.Sc.) | 361 | 1 |
| 5. | Alpha Spectrometer | 332 | 1 |
| 6. | 4 Bit Shift Register | 355 | 1 |
| 7. | 4/8 Bit Digital to Analog | 357 | 1 |
| 8. | Colpitts Oscillator | 347 | 1 |
| 9. | Clipping and Clamping (M.Sc.) | 351 | 1 |
| 10. | Common Cathode Seven Segment Display | 352 | 1 |
| 11. | FET (M.Sc.) | 358 | 1 |
| 12. | Four probe method Appts | 193 | 2 |
| 13. | G.M. Counter Digital | 121 | 1 |
| 14. | Gamma Spectrometer | 334 | 1 |
| 15. | Hartley Oscillator | 346 | 1 |
| 16. | Hybrid Parameter (H-Parameter) | 345 | 1 |
| 17. | Hall Effect's Experiment | 142 | 1 |
| 18. | L.C.R Appts (LCR Resonance with built-in-Function Gen.)(New) | 251 | 2 |
| 19. | Microprocessor Kit 8085 | 353 | 1 |
| 20. | OPAMP Measure Characteristic | 356 | 1 |
| 21. | Planck's Constant Appts | 341 | 2 |
| 22. | Solid State Power Supply | 350 | 1 |
| 23. | SMPS Trainer | 360 | 1 |
| 24. | T ' Type low pass & High Pass | 354 | 1 |
| 25. | To configure various digital counters | 362 | 1 |
| 26. | To design and assemble an Integrated circuit regulated power supply with output of both polarities and a current regulator | 363 | 1 |
| 27. | To study the Michelson interferometer and its applications | 364 | 1 |
| 28. | To measure numerical aperture and propagation loss and bending losses for optical fibre as function of bending angle and at various wavelengths. | 365 | 1 |
| 29. | Ultrasonic | 344 | 1 |

LIST OF APPARATUS / ARTICLE (UG Classes)

| S.No. | Items | Page No. | Qty. |
|--------------|--|-----------------|-------------|
| 30. | AM- Meter(A.C.) | 1 - 2 | 18 |
| 31. | AM- Meter(D.C.) | 3 | 13 |
| 32. | Aligner | 305 | 3 |
| 33. | Analog Electronics Development Board | 340 | 3 |
| 34. | Analytical Wt. Box | 5 | 2 |
| 35. | Adjustable Stand | 7 | 8 |
| 36. | Audio Frequency Oscillator | 8,323 | 20 |
| 37. | Almirah | 13 | 13 |
| 38. | Appts to demonstrate the force on a conductor carrying current | 14 | 25 |
| 39. | Absorption Spectrum of Iodine Appts | 15 | 1 |
| 40. | Astable and Monostable Multivibrator Kit | 329 | 5 |
| 41. | Brass Cylinder | 16 | 36 |
| 42. | Bob Pendulum | 17 | 87 |
| 43. | Beam Bending Appts | 20 | 10 |
| 44. | Ballistic Galvanometer | 22 | 6 |
| 45. | Battery Eliminator | 23-24 | 16 |
| 46. | BJT characteristics Appts or Transistor characteristics Appts | 25,301 | 16 |
| 47. | Barranger Type Balance | 28 | 2 |
| 48. | B.H. curve Tracing Arrangement | 31 | 2 |
| 49. | Bar Pendulum | 32 | 12 |
| 50. | B.H. curve Appts | 34 | 4 |
| 51. | Clament & Desorms Appts (Adiabatic Appts) | 38 | 3 |
| 52. | Callorimeter(Copper) | 41 | 78 |
| 53. | C.R.O Appts | 45,318 | 14 |
| 54. | Common Emitter Amplifier with V.T.M | 46 | 4 |
| 55. | Commander Everyday (Torch) | 48,249 | 13 |
| 56. | Charging & Discharging or Flashing & quencing | 49-252 | 12 |
| 57. | Crystal Models in Physics | 52 | 14 |
| 58. | Clipping Circuit | 55 | 5 |
| 59. | Carrey Foster Bridge (Old) | 56 | 6 |
| 60. | Carrey Foster Bridge (New) | 56 | 8 |
| 61. | De-Sauty's Bridge | 64 | 3 |
| 62. | Diode Characteristics Appts | 66 | 2 |
| 63. | Electric Vibrator | 70 | 2 |
| 64. | Energy Gap of Diode | 72 | 7 |
| 65. | Energymeter Kit | 74 | 5 |
| 66. | EpidiaScope | 76 | 1 |
| 67. | EMF as functioning of velocity of magnet | 77 | 1 |
| 68. | E/M short solenoid Appts | 78 | 1 |
| 69. | E/M Long solenoid Appts | 79 | 2 |
| 70. | Enammelled Tray | 250 | 24 |
| 71. | Four way Key | 80 | 4 |
| 72. | Fly Wheel | 81 | 8 |
| 73. | Fortines Barrometer | 82 | 2 |
| 74. | F.E.T Characteristics Appts | 86,319 | 11 |

| | | | |
|------|--|----------|----|
| 75. | Four probe method Appts | 193 | 7 |
| 76. | Fresnel Bi-Prism Experiment | 195 | 2 |
| 77. | Furniture/ WOODEN STOOL | 281 | 40 |
| 78. | Flip Flop Trainer Kit | 336 | 3 |
| 79. | Galvanometer D.C. | 87,283 | 19 |
| 80. | Gas Discharge Spectrum of Hydrogen Appts | 90 | 1 |
| 81. | G.M. Counter Digital | 121 | 4 |
| 82. | Heater | 92 | 4 |
| 83. | Hot Air Dryer | 94 | 6 |
| 84. | Hammer | 95 | 1 |
| 85. | Hanger with 200 gms 8" size | 98 | 6 |
| 86. | Half wave/Full wave Bridge Rectifier Appts (Ripple factor) | 99 | 8 |
| 87. | Hall Effect's Experiment | 142 | 4 |
| 88. | Hot Plate | 286 | 4 |
| 89. | Ionization of Mercury Appts | 100 | 4 |
| 90. | Iron Stand with Clamp | 101 | 18 |
| 91. | Insulated Stool Teak Wood | 106 | 1 |
| 92. | Impedence of Triange of LCR | 108, 304 | 12 |
| 93. | Jockey Pencil | 109 | 15 |
| 94. | Kater's Pendulum | 111 | 6 |
| 95. | Kelvin Bridge | 112 | 1 |
| 96. | Locks | 115-116 | 15 |
| 97. | L.C.R Appts Circuit (LCR Resonance Appts)(Old) | 120, 251 | 11 |
| 98. | Lee's Carton Appts | 122 | 6 |
| 99. | Laser Apparatus | 314 | 6 |
| 100. | LED Radiation Pattern | 331 | 2 |
| 101. | Logic Gate Training System | 330 | 3 |
| 102. | Megahm Box | 123 | 6 |
| 103. | Mercury Lamp with Chokes | 124 | 3 |
| 104. | Measuring Tape | 125 | 6 |
| 105. | Metre Rod(Full) | 126 | 12 |
| 106. | Metre Rod(Half) | 127 | 16 |
| 107. | Maxwell Vibration Needle | 130 | 2 |
| 108. | Milli Ammeter (D.C.) | 133 | 12 |
| 109. | Milli Ammeter (A.C.) | 134 | 7 |
| 110. | Milli Voltmeter A.C. | 136 | 10 |
| 111. | Magnets in Pairs | 137 | 24 |
| 112. | Moments of Inertia Appts | 138 | 17 |
| 113. | Maxwell Needle Stand(Vibration) | 139 | 1 |
| 114. | Multi Test Meter | 140, 321 | 14 |
| 115. | Newton's Ring Appts | 144, 266 | 7 |
| 116. | Newton's Ring Microscope(old) | 145 | 4 |
| 117. | Nose Plier | 303 | 2 |
| 118. | Operational Amplifier with A.F. Oscillator | 150 | 3 |
| 119. | One way Key | 152 | 16 |
| 120. | One Dimensional Collision Appts | 154 | 8 |
| 121. | Pirani Gauge | 342 | 2 |
| 122. | Poision Ratio Appts | 157 | 6 |

| | | | |
|------|---|----------|------|
| 123. | P.N. Junction Appts | 158 | 12 |
| 124. | Palarimeter | 160 | 5 |
| 125. | Post Office Box | 161 | 4 |
| 126. | Press key | 162 | 2 |
| 127. | Plier | 167 | 5 |
| 128. | Probability Distribution Kit | 174 | 1 |
| 129. | Resistance Box | 181 | 32 |
| 130. | Reheostat | 182-183 | 13 |
| 131. | Reversing Key | 184 | 6 |
| 132. | Register(Store) | 186 | 40+1 |
| 133. | Resistance Coil | 192 | 33 |
| 134. | R.C. Circuit | 194 | 6 |
| 135. | Register(Small) | 187 | 2 |
| 136. | Scissors | 196 | 4 |
| 137. | Spherometer | 197, 228 | 17 |
| 138. | Screw Gauge | 198 | 50 |
| 139. | Spirit Level | 199 | 5 |
| 140. | Slotted Weights 10 gm, 100gms | 203 | 52 |
| 141. | Slits(Micrometer) | 204, 265 | 10 |
| 142. | Steam generator | 205, 327 | 12 |
| 143. | Spectrometer | 253, 338 | 19 |
| 144. | Sextant complete set | 211, 310 | 8 |
| 145. | Screw Driver | 212 | 10 |
| 146. | Self Mutual Inductance Coils(250-500turns) | 215 | 4 |
| 147. | Self Mutual Inductance Coils(1000,2000,3000turns) | 216 | 4 |
| 148. | Spring Balance(500 gms) | 217 | 5 |
| 149. | Spring Balance(1000 gms) | 218 | 12 |
| 150. | Slide Wire Bridge | 219 | 2 |
| 151. | Stablizer for Fridge | 220 | 1 |
| 152. | Solenoid Magnetic Field Appts | 221, 306 | 9 |
| 153. | Sinks(Stainless Steel) | 223 | 2 |
| 154. | Silicon Control Rectifier(SCR) | 224 | 2 |
| 155. | Software | 298 | 1 |
| 156. | Scanner(Installed in Staffroom) | 227 | 1 |
| 157. | Sodium Source | 285 | 3 |
| 158. | Stop watch Digital | 309, 333 | 26 |
| 159. | Thermister with meter | 233 | 7 |
| 160. | Tangent Galvanometer | 234 | 18 |
| 161. | Telescope | 235, 315 | 24 |
| 162. | Tunning Forks | 236 | 2 |
| 163. | Transformer variable(Dimmer) | 237 | 3 |
| 164. | Two way Key | 238 | 9 |
| 165. | Travelling Microscope | 240, 328 | 10 |
| 166. | Telegraphic Circuit Sets | 243 | 6 |
| 167. | Ticker Timer | 244 | 1 |
| 168. | Terminal Velocity Appts | 245 | 3 |
| 169. | Voltage Regulation (Zener Diode) | 254, 317 | 13 |
| 170. | Vernier Callipers | 255 | 50 |

| | | | |
|------|--------------------------------------|-------|----|
| 171. | Voltmeter(D.C.) | 256 | 29 |
| 172. | Voltmeter(A.C.) | 258 | 14 |
| 173. | Vaccum Tube Voltmeter(VTVM) | 260 | 1 |
| 174. | Voltmeter(Demonstration Type) old | 262 | 1 |
| 175. | Viscometer | 263 | 4 |
| 176. | Weight Box | 268 | 25 |
| 177. | Wooden Box | 271 | - |
| 178. | Wooden Stool for Newton's Ring Appts | 272 | 1 |
| 179. | Wall Thermometer | 276 | 2 |
| 180. | Wire Cutter | 229 | 1 |
| 181. | Young's Modulus Apparatus (Old) | 288 | 3 |
| 182. | Young's Modulus Apparatus (New) | 288 | 8 |
| 183. | Young's Modulus Apparatus Brackets | 289 | 12 |
| 184. | Zener Diode Characteristics Appts | 311 | 7 |
| 185. | Dielectric Constant | 325 | 5 |
| 186. | Calculator(Citizen) | 335 | 2 |
| 187. | Scientific Calculator(Cello) | 337 | 1 |
| 188. | Milli Ammeter AC 0.05 range | 284 | 5 |
| 189. | Stepler(small) | 232 | 3 |
| 190. | C.D /D V WRITTER | 290 | 1 |
| 191. | COMPUTERS | 292 | 14 |
| 192. | AM- Meter(A.C.) | 1 - 2 | 18 |

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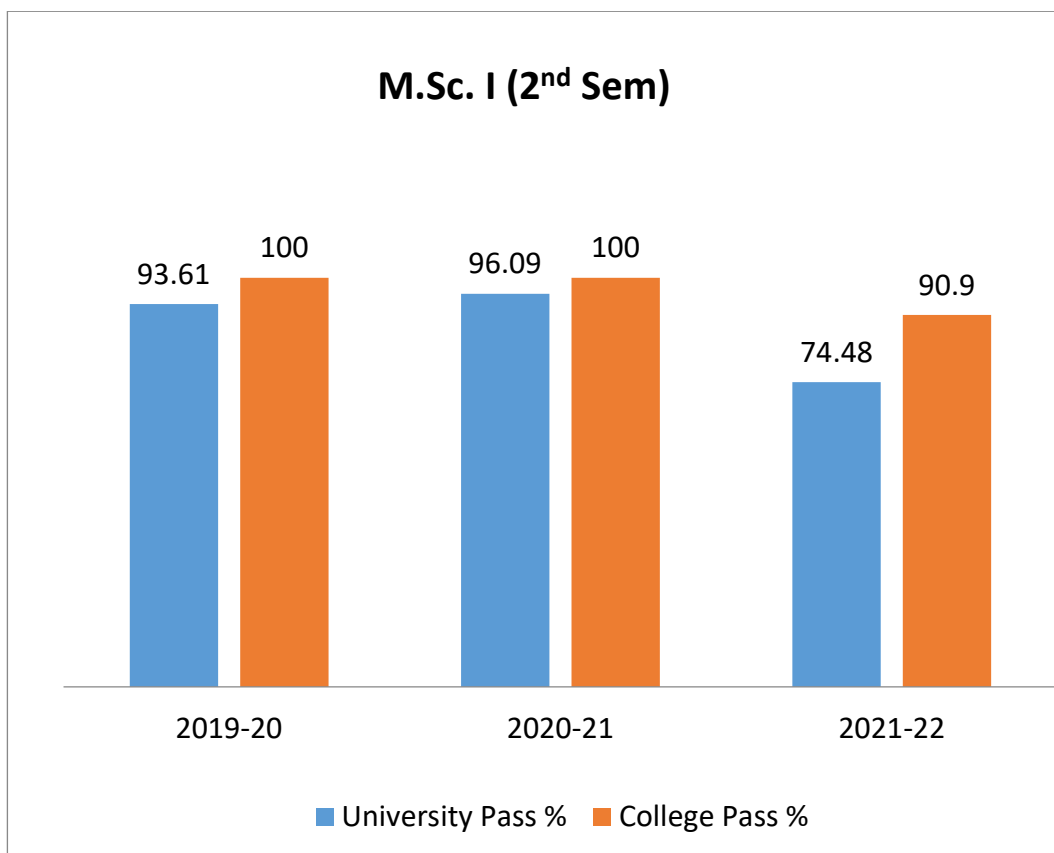
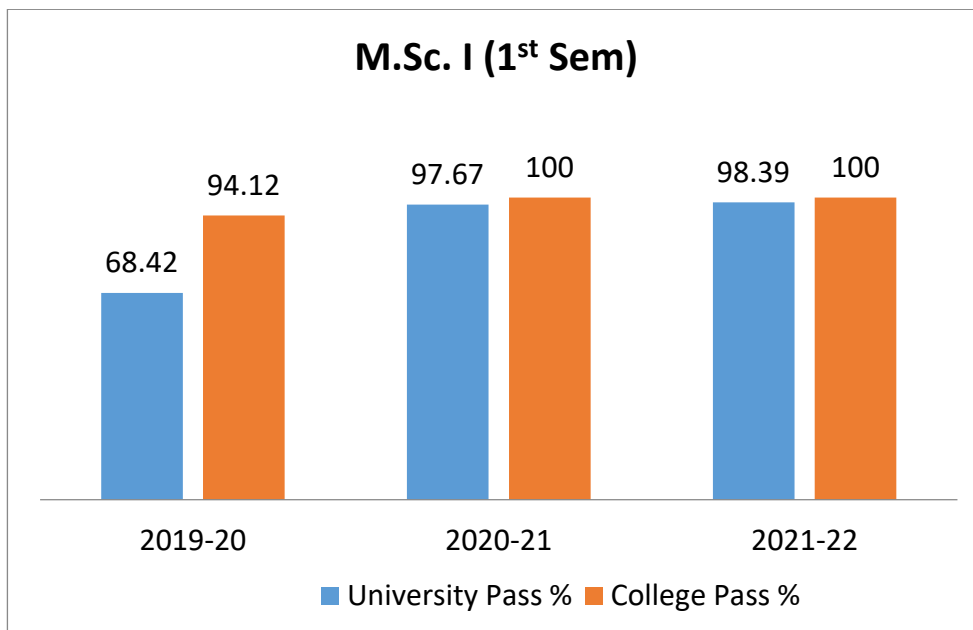
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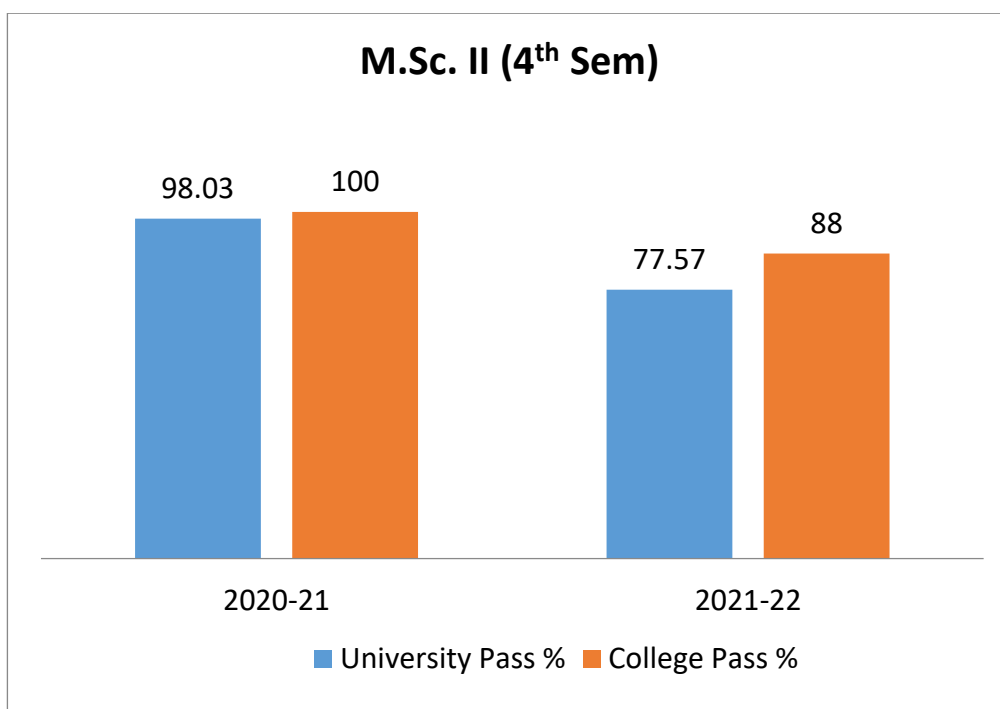
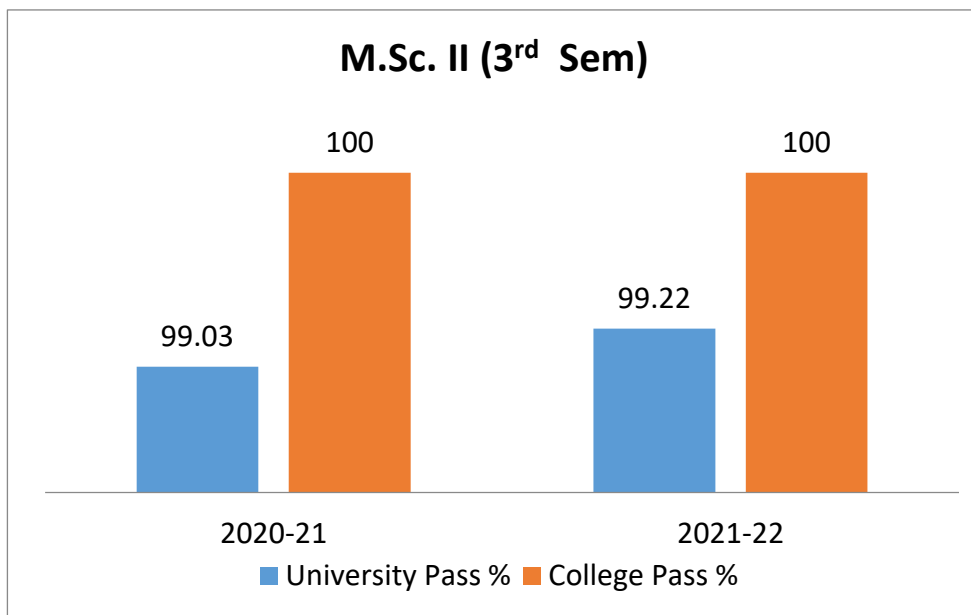
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| 90 | B.Sc.-II | Vibrations, Waves & E.M. Theory-I |
| 91 | B.Sc.-II | Vibrations, Waves & E.M. Theory-I |
| 92 | B.Sc.-II | Vibrations, Waves & E.M. Theory-II |
| 93 | B.Sc.-II | Vibrations, Waves & E.M. Theory-I |
| 94 | B.Sc.-II | Vibrations, Waves & E.M. Theory-II |
| 95 | B.Sc.-II | Physics Vol-III (Thermal Physics, Thermodynamics & Statistical Mechanics) |
| 96 | B.Sc.-II | Mechanics & Relativity |
| 97 | B.Sc.-II | Quantum Physics-I |
| 98 | B.Sc.-II | Statistical Physics & Thermodynamics-II |
| 99 | B.Sc.-II | Statistical Physics & Thermodynamics-II |
| 100 | B.Sc.-II | Statistical Physics & Thermodynamics-II |
| 101 | B.Sc.-II | Statistical Physics & Thermodynamics-II |
| 102 | B.Sc.-II | Optics & Lasers-I |
| 103 | B.Sc.-II | Optics & Lasers-II |
| 104 | B.Sc.-II | Browser A Question Bank |

| | | |
|-----|-----------|--|
| 105 | B.Sc.-II | Quantum Physics-II |
| 106 | B.Sc.-II | Optics & Lasers |
| 107 | B.Sc.-III | Nuclear & Particle Physics |
| 108 | B.Sc.-III | Electronics & Solid State Devices |
| 109 | B.Sc.-III | Electronics & Solid State Devices |
| 110 | B.Sc.-III | Electronics & Solid State Devices |
| 111 | B.Sc.-III | Electronics & Solid State Devices |
| 112 | B.Sc.-III | Condensed Matter Physics |
| 113 | B.Sc.-III | Condensed Matter Physics |
| 114 | B.Sc.-III | Condensed Matter Physics |
| 115 | B.Sc.-III | Condensed Matter Physics |
| 116 | B.Sc.-III | Nuclear & Practical Physics-I |
| 117 | B.Sc.-III | Nuclear & Practical Physics |
| 118 | B.Sc.-III | Nuclear & Particle Physics |
| 119 | B.Sc.-III | Electronics & Solid State Devices |
| 120 | B.Sc.-III | Electronics & Solid State Devices |
| 121 | B.Sc.-III | Electronics & Solid State Devices-I |
| 122 | B.Sc.-III | Nuclear & Practical Physics-II |
| 123 | B.Sc.-III | Nuclear & Practical Physics-II |
| 124 | B.Sc.-III | A Text Book of Quantum Physics-I |
| 125 | B.Sc.-III | A Text Book of Condensed Matter Physics-II |
| 126 | B.Sc.-III | Nuclear & Practical Physics-II |
| 127 | B.Sc.-III | Nuclear & Practical Physics-II |
| 128 | B.Sc.-III | A Text Book of Quantum Physics-I |
| 129 | B.Sc.-III | A Text Book of Condensed Matter Physics-II |
| 130 | M.Sc. | Objective Physics |
| 131 | M.Sc. | Advanced Quantum Mechanics |

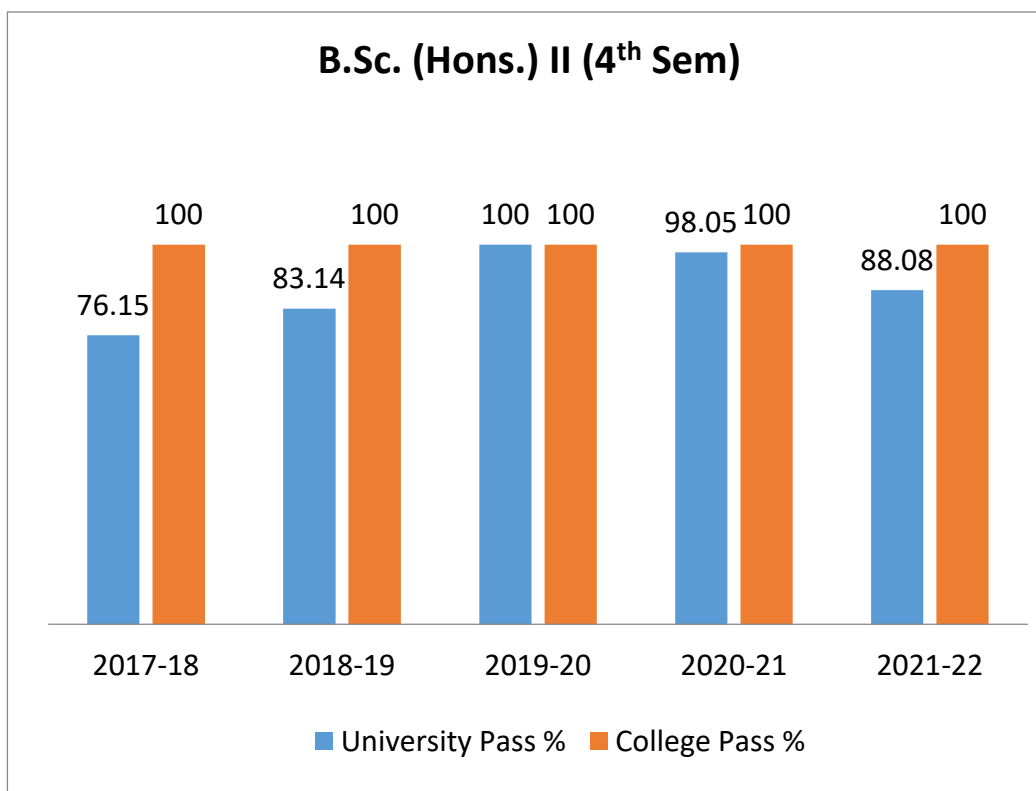
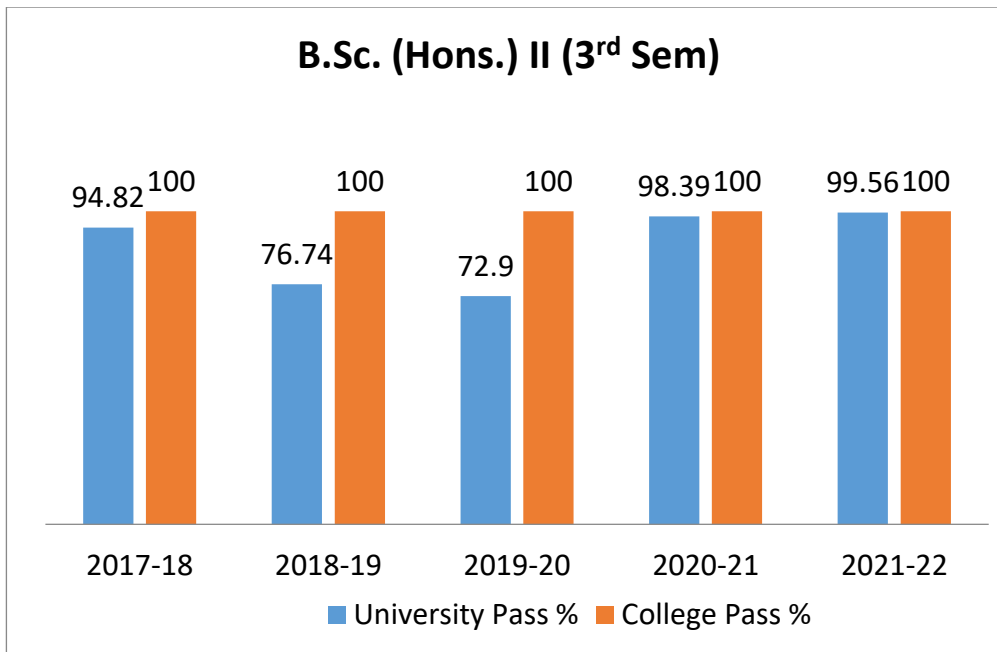
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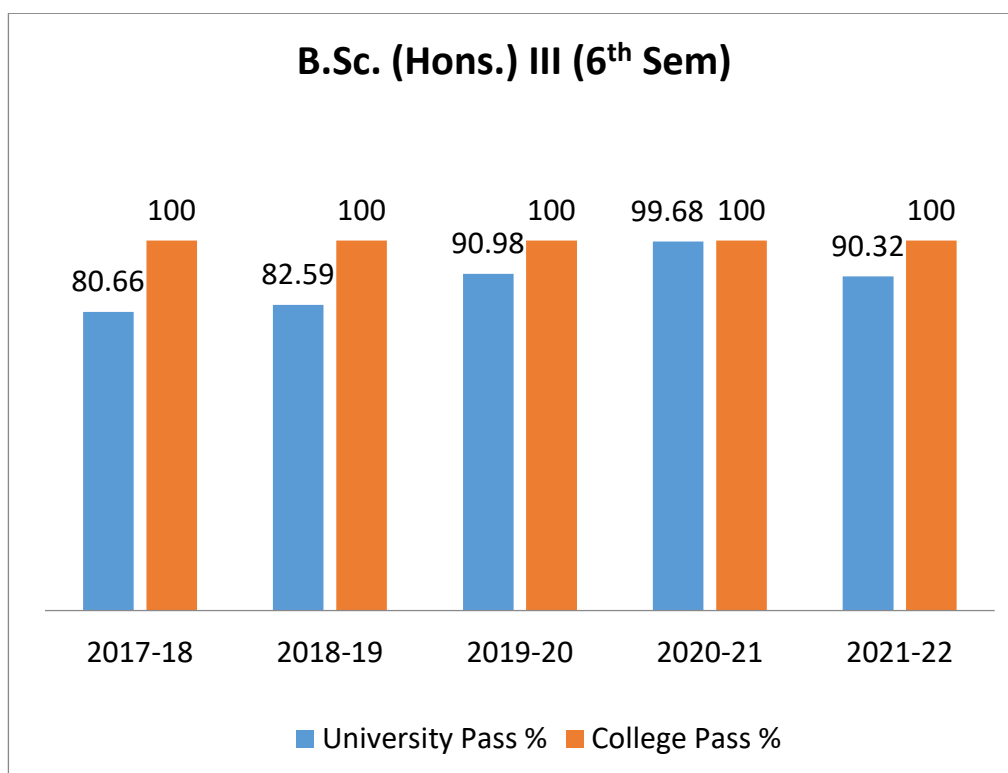
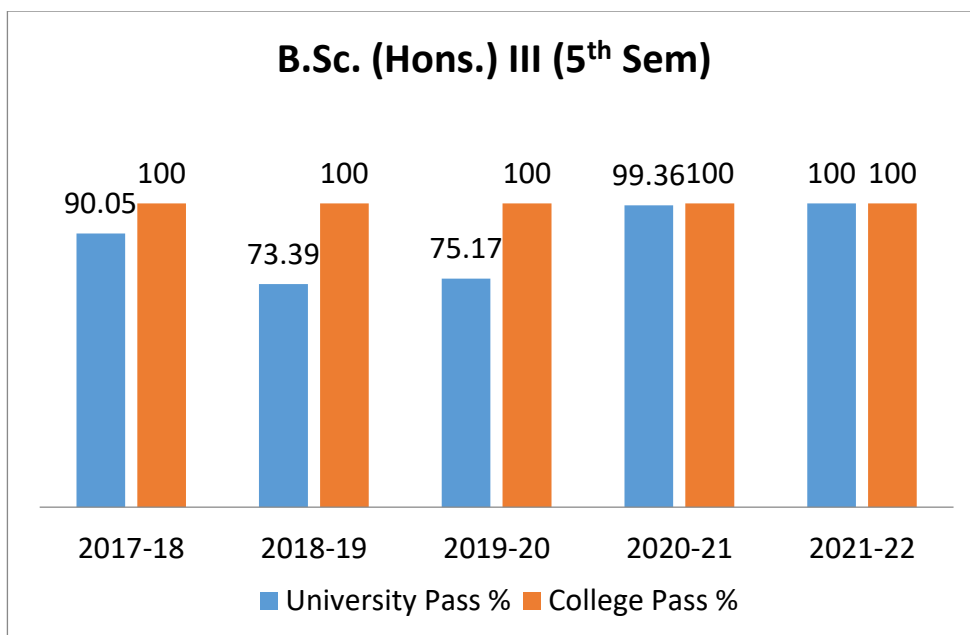
M.Sc. Physics



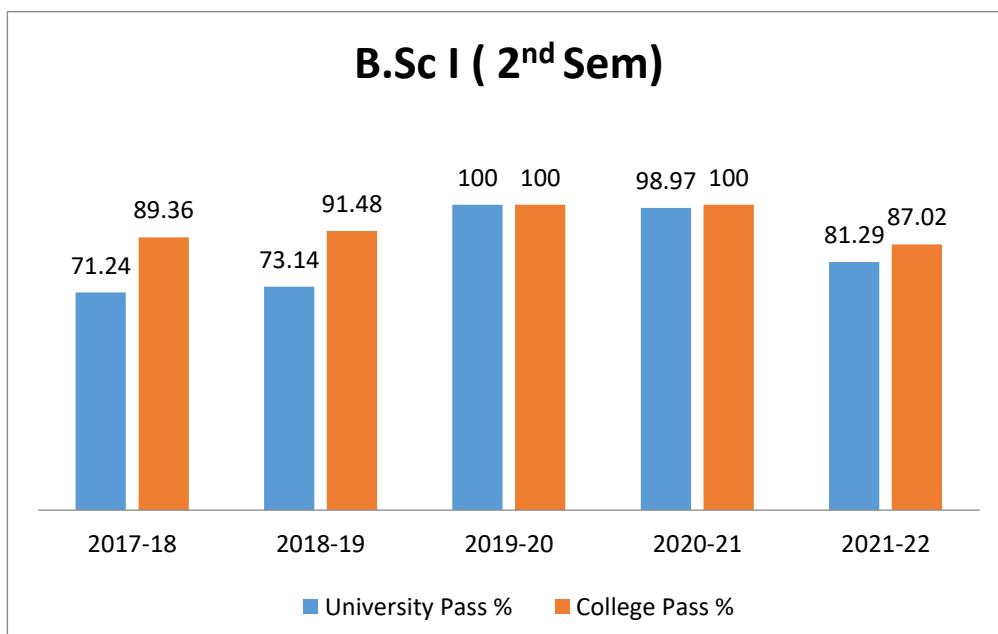
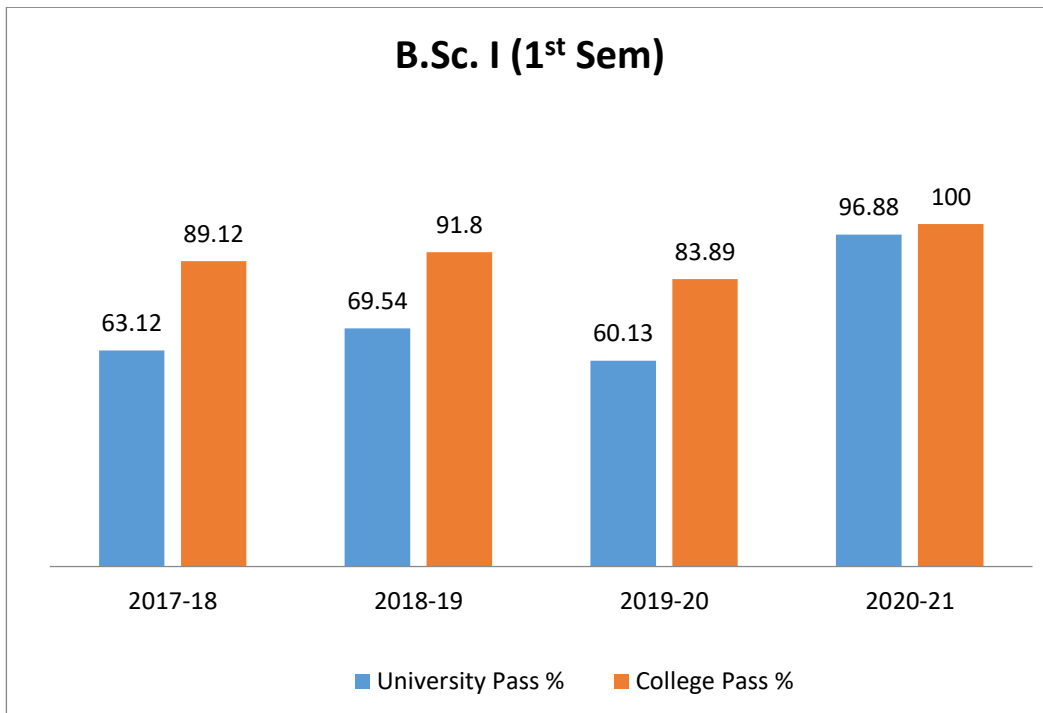


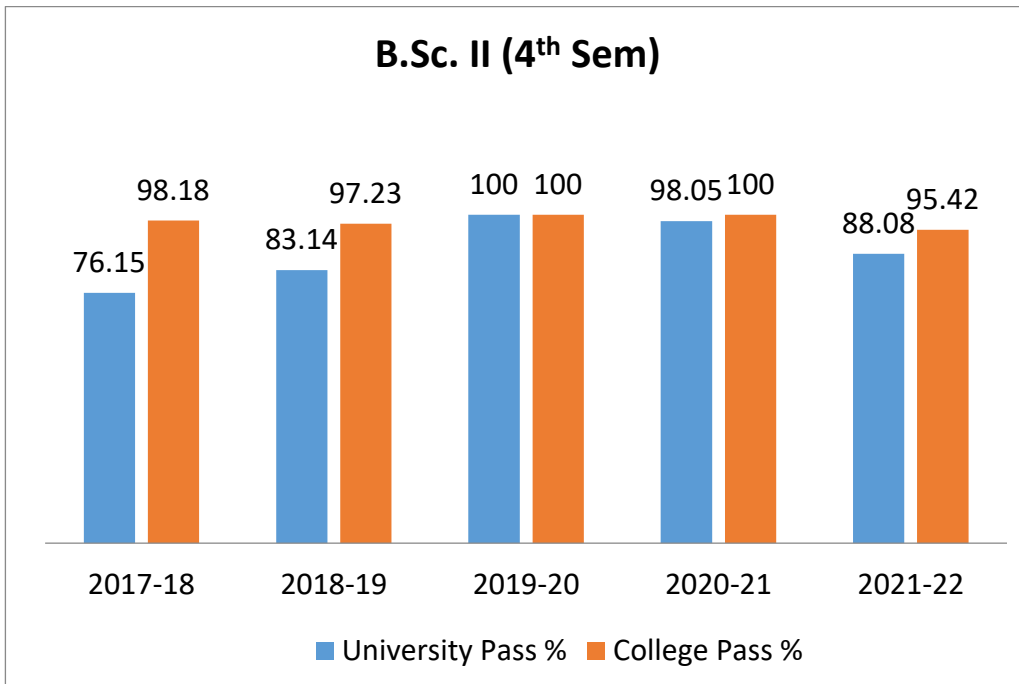
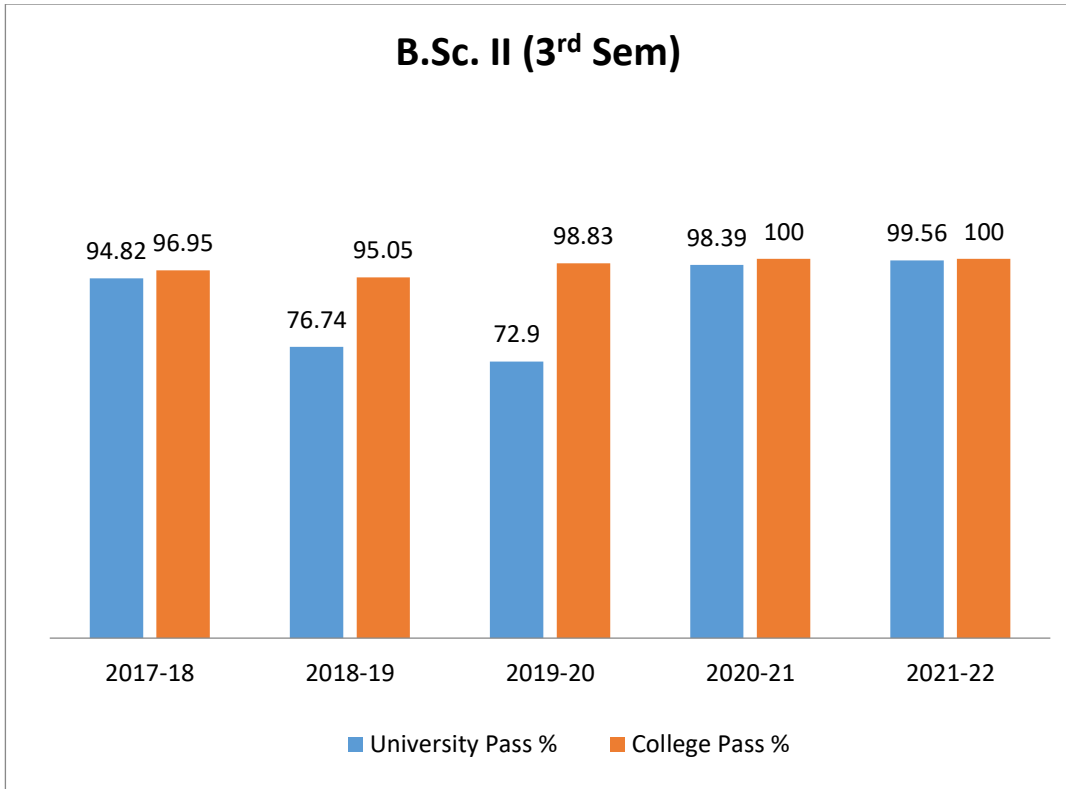
B.Sc. Honours Physics

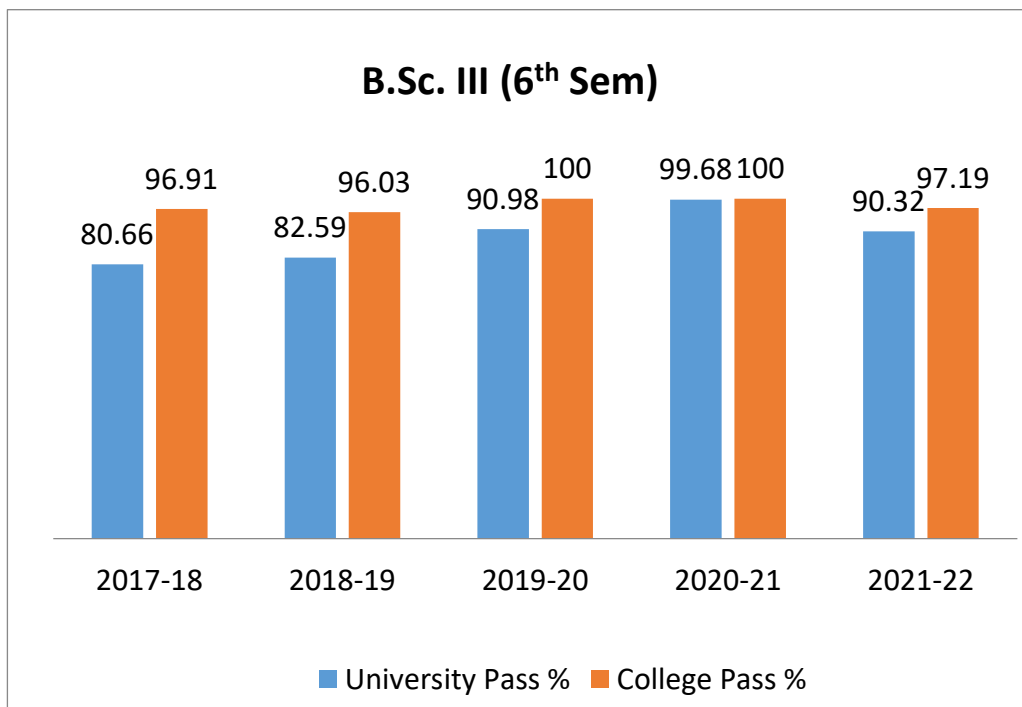
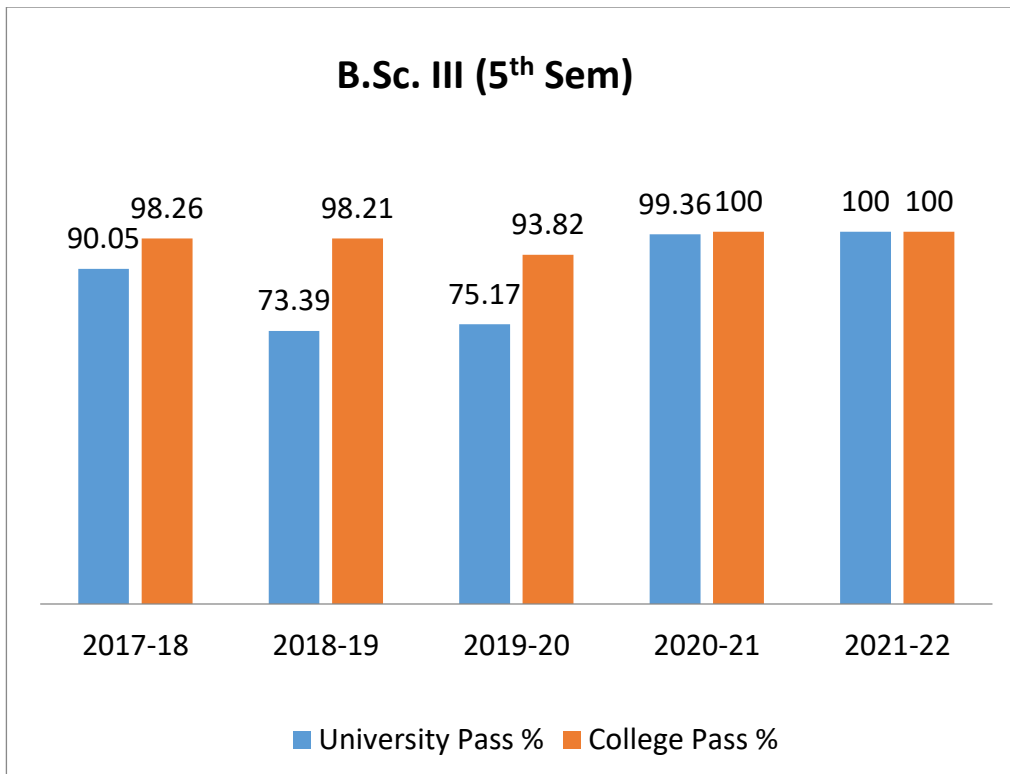




B.Sc. (NM+CS)







STUDENTS' ACHIEVEMENTS

ACADEMIC ACHIEVMENTS

I. UNIVERSITY POSITIONS

SESSION: 2017-18

B.Sc. III (Hons) May 2018 Examination, Panjab University, Chandigarh


| | | | |
|--|--|---|--|
|  |  |  |  |
| Nandini 3 rd position | Simranjit Kaur 7 th position | Swati Kalia 8 th position | Sneha Mishra 10 th position |

B.Sc. III May 2018 Examination, Panjab University, Chandigarh

| | |
|---|--|
|  |  |
| Rashmi 6 th position | Shivani Goyal 7 th position |

SESSION: 2018-19

B.Sc. III (Hons.) May 2019 Examination, Panjab University, Chandigarh

| | | |
|---|---|---|
|  |  |  |
| Riya Singla 1 st position | Yashvi 2 nd position | Amanpreet Kaur 3 rd position |
|  |  |  |
| Amandeep Kaur 4 th position | Vanshika 5 th position | Priyanka 6 th position |
|  |  | |
| Shilpa Rana 7 th position | Vinny Jaidka 9 th position | |

B.Sc. III May 2019 Examination, Panjab University, Chandigarh



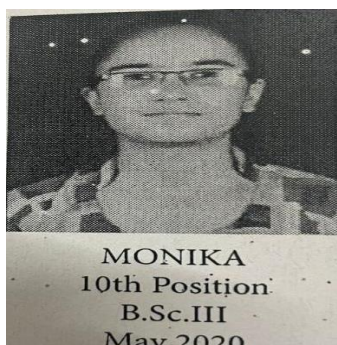
Poonam Rani
6th position

SESSION: 2019-20

B.Sc. III (Hons.) May 2020 Examination, Panjab University, Chandigarh

| | | |
|--|--|--|
|  |  |  |
| Snehpreet Kaur 5 th position | Anandita Singhi 6 th position | Shruti 7 th position |
|  |  | |
| Kriti Shukla 9 th position | Niharika Kapoor 10 th position | |

B.Sc. III May 2020 Examination, Panjab University, Chandigarh






Monika
10th position

SESSION 2020-2021

B.Sc. III (Hons.) May 2021 Examination, Panjab University, Chandigarh

| | | | |
|---|---|--|---|
|  |  |  |  |
| Aashana Verma 4 th position | Swati Katwal 6 th position | Arushi Marwaha 8 th position | Aditi Saini 10 th position |

SESSION 2021-2022

| | | |
|--|--|---|
|  |  |  |
| Aashna Verma 1 st position | Oshin 3 rd position | Meetali Kalia 9 th position |

B.Sc. III May 2022 Examination Panjab University, Chandigarh

| | |
|---|--|
|  |  |
| Sonam Rani 3 rd position | Amandeep Kaur 10 th position |

II. NGPE (National Graduate Physics Examination) conducted by IAPT (Indian Association of Physics Teachers)

- Eight students of B.Sc. (NM and C.S) cleared the NGPE (National Graduate Physics Examination) conducted by IAPT (Indian Association of Physics Teachers) in March, 2018 and all are in the top 10%

**Keshavpuram, Kalyanpur, Kanpur - 208017
NATIONAL GRADUATE PHYSICS EXAMINATION - 2018**

G-1686 PG GOVT COL FREEZEE ROAD CHDS
CENTRE IN CHARGE:
CHANDIGARH
Dr RAMA ARORA

| S No | Centre | Roll N | Name of Candidates | Father | Gen | Class | Med | Marks | Rank | Remarks |
|------|--------|--------|--------------------|--------|-----|--------|------|-------|------|---------|
| 1 | G-1606 | 18001 | MEHAK | KK | F | BSc II | ENGG | 36 | TOP | |
| 2 | G-1606 | 18002 | PRYANKA JAGGA | VJ | F | BSc II | ENGG | 42 | TOP | AC |
| 3 | G-1606 | 18003 | ANJALI THAKUR | RT | F | BSc II | ENGG | AB | | |
| 4 | G-1606 | 18004 | RIYA SINGLA | DE | F | BSc II | ENGG | 24 | TOP | AC |
| 5 | G-1606 | 18005 | YASHVI CHHABRA | SC | F | BSc II | ENGG | 24 | | |
| 6 | G-1606 | 18006 | VENNY JAIDKA | SL | F | BSc II | ENGG | 12 | | |
| 7 | G-1606 | 18007 | SEJAN SAINI | TC | F | BSc I | ENGG | AB | | |
| 8 | G-1606 | 18008 | ANJITA | M | F | BSc I | ENGG | AB | | |
| 9 | G-1606 | 18009 | SHAYITA | JP | F | BSc I | ENGG | AB | | |
| 10 | G-1606 | 18010 | SANJEEV | NK | F | BSc I | ENGG | AB | | |
| 11 | G-1606 | 18011 | AKSHITA VERMA | NV | F | BSc I | ENGG | AB | | |
| 12 | G-1606 | 18012 | VANDNED PREET | JS | F | BSc I | ENGG | AB | | |
| 13 | G-1606 | 18013 | JASMEET KAUR | SS | F | BSc I | ENGG | AB | | |
| 14 | G-1606 | 18014 | PARUL SHARMA | RK | F | BSc I | ENGG | AB | | |
| 15 | G-1606 | 18015 | KOMALI VERMA | RV | F | BSc I | ENGG | AB | | |
| 16 | G-1606 | 18016 | ANCHAL PATIYAL | NS | F | BSc I | ENGG | AB | | |
| 17 | G-1606 | 18017 | POOJA SHARMA | ME | F | BSc I | ENGG | 36 | TOP | |
| 18 | G-1606 | 18018 | PAJNAM LAJAL | AA | F | BSc I | ENGG | AB | | |
| 19 | G-1606 | 18019 | DISHITA | SE | F | BSc I | ENGG | AB | | |
| 20 | G-1606 | 18020 | PALLAVI BANSAL | DP | F | BSc I | ENGG | AB | | |
| 21 | G-1606 | 18021 | NIYATI GOEL | AK | F | BSc I | ENGG | AB | | |
| 22 | G-1606 | 18022 | NIHA KESTWAL | CP | F | BSc I | ENGG | AB | | |
| 23 | G-1606 | 18023 | KRITI SHUKLA | JN | F | BSc I | ENGG | AB | | |
| 24 | G-1606 | 18024 | SHEEVA SHARMA | ML | F | BSc I | ENGG | AB | | |
| 25 | G-1606 | 18025 | SIYA BANYAN | VV | F | BSc I | ENGG | 24 | | |
| 26 | G-1606 | 18026 | PRAGYA SINGH | DS | F | BSc I | ENGG | AB | | |
| 27 | G-1606 | 18027 | NAJNA CHANAL | JS | F | BSc I | ENGG | AB | | |
| 28 | G-1606 | 18028 | UMA BHARTI | RM | F | BSc I | ENGG | AB | | |
| 29 | G-1606 | 18029 | MUSKAN | OK | F | BSc I | ENGG | AB | | |
| 30 | G-1606 | 18030 | DEVANSHI VERMA | JC | F | BSc I | ENGG | 18 | | |
| 31 | G-1606 | 18031 | MANISH KASHYAP | SE | F | BSc I | ENGG | AB | | |
| 32 | G-1606 | 18032 | ANCHAL SINGH DALAL | AE | F | BSc I | ENGG | AB | | |
| 33 | G-1606 | 18033 | HARMANPREET KAUR | JS | F | BSc I | ENGG | AB | | |
| 34 | G-1606 | 18034 | HIMANI | KR | F | BSc I | ENGG | AB | | |
| 35 | G-1606 | 18035 | PALAK THAKUR | RS | F | BSc I | ENGG | AB | | |
| 36 | G-1606 | 18036 | HARJEEV KAUR | SS | F | BSc I | ENGG | AB | | |
| 37 | G-1606 | 18037 | MEENKAL YADAV | SD | F | BSc I | ENGG | AB | | |
| 38 | G-1606 | 18038 | PARINEET KAUR | TS | F | BSc I | ENGG | AB | | |

AC: Above cut off [for evaluation of Part B]
TOP: Top 10 % at the Centre Dated: 1.3.2018

DR BP TYAGI
Co-ordinator NGPE
23 Adarsh Vihar, Rajpur Road Dehradun - 248001

**INDIAN ASSOCIATION OF PHYSICS TEACHERS
206, 11nd Floor, Adarsh Complex, OPR 4, Awasth Vikas - 1
Keshavpuram, Kalyanpur, Kanpur - 208017
NATIONAL GRADUATE PHYSICS EXAMINATION - 2018**

| | | | | | | | | | | |
|----|--------|-------|-----------------------|----|---|---------|------|----|-----|--------|
| 39 | G-1606 | 18039 | ANJITA SHARMA | HR | F | BSc I | ENGG | AB | | |
| 40 | G-1606 | 18040 | MANJEEV KAUR | JS | F | BSc III | ENGG | 18 | | |
| 41 | G-1606 | 18041 | RAMANDEEP KAUR BRAR | SE | F | BSc III | ENGG | 6 | | |
| 42 | G-1606 | 18042 | SHWATI KALLA | NE | F | BSc III | ENGG | 6 | | |
| 43 | G-1606 | 18043 | INDIA RANI | VK | F | BSc III | ENGG | 24 | | |
| 44 | G-1606 | 18044 | ANJALI RANI | SK | F | BSc III | ENGG | 18 | | |
| 45 | G-1606 | 18045 | SIHA ASHRAF | MA | F | BSc III | ENGG | 6 | | |
| 46 | G-1606 | 18046 | SHIVANI GOYAL | PL | F | BSc III | ENGG | 12 | | |
| 47 | G-1606 | 18047 | NICHH | PK | F | BSc III | ENGG | 30 | TOP | 95/100 |
| 48 | G-1606 | 18048 | NIKUNDEER KAUR | SB | F | BSc III | ENGG | 24 | | 02/51 |
| 49 | G-1606 | 18049 | SHRANJIT KAUR | JS | F | BSc III | ENGG | 18 | | |
| 50 | G-1606 | 18050 | KANUPRIYA MEHTA | YM | F | BSc III | ENGG | 24 | | |
| 51 | G-1606 | 18051 | SHREHA JINDAL | HJ | F | BSc III | ENGG | 18 | | |
| 52 | G-1606 | 18052 | RAMANDEEP DHRMAN | JD | F | BSc III | ENGG | AB | | |
| 53 | G-1606 | 18053 | SHANWANI KAUR | EV | F | BSc III | ENGG | AB | | |
| 54 | G-1606 | 18054 | AKANSHYA SHARMA | RS | F | BSc III | ENGG | 30 | TOP | 84/100 |
| 55 | G-1606 | 18055 | DIVYA PANDAY | AP | F | BSc III | ENGG | 18 | | |
| 56 | G-1606 | 18056 | NEHA MISHRA | KM | F | BSc III | ENGG | 30 | TOP | |
| 57 | G-1606 | 18057 | SHRANPREET KAUR | RS | F | BSc III | ENGG | AB | | |
| 58 | G-1606 | 18058 | PRYANKA KUMARI | PC | F | BSc III | ENGG | 18 | | |
| 59 | G-1606 | 18059 | CHIRANJEEV KAUR DEHAJ | OS | F | BSc III | ENGG | 18 | | |
| 60 | G-1606 | 18060 | PRIVA RANI | VK | F | BSc III | ENGG | 42 | TOP | AC |
| 61 | G-1606 | 18061 | PRYANKA BHALWAL | SK | F | BSc III | ENGG | AB | | |
| 62 | G-1606 | 18062 | SHIVANI BHANDARI | S | F | BSc III | ENGG | AB | | |
| 63 | G-1606 | 18063 | NAJNEN | AE | F | BSc III | ENGG | AB | | |

AC: Above cut off [for evaluation of Part B]
TOP: Top 10 % at the Centre Dated: 1.3.2018

DR BP TYAGI
Co-ordinator NGPE
23 Adarsh Vihar, Rajpur Road Dehradun - 248001

- Five students of B.Sc. (NM and CS) cleared the NGPE (National Graduate Physics Examination) conducted by IAPT (Indian Association of Physics Teachers) in March, 2019 and all are in the top 10%.

INDIAN ASSOCIATION OF PHYSICS TEACHERS
206, 1st Floor, Adarsh Complex, OPR 4, Awas Vikas 1
Keshavpuram, Kalyanpur, Kanpur - 208017
NATIONAL GRADUATE PHYSICS EXAMINATION - 2019

G-1006 PG GOVT COLLEGE FOR GIRLS CENTRE INCHARGE :
CHANDIGARH DR. ANU SHARMA

| S.No | Centre | Roll No | Name of Candidate | Father | Gen | Class | Med | Marks | Rank | Remarks |
|------|--------|---------|-------------------|--------|-----|-------|-----|-------|------|---------|
| 1 | G-1006 | 19001 | ABHIRA THAKUR | SR | F | BSc I | ENG | 39 | | |
| 2 | G-1006 | 19002 | PRANSA SINGH | AB | F | BSc I | ENG | 30 | | |
| 3 | G-1006 | 19003 | IRSA KACHRAL | AB | F | BSc I | ENG | 13 | | |
| 4 | G-1006 | 19004 | ANANDYA SANCHI | NS | F | BSc I | ENG | A | | |
| 5 | G-1006 | 19005 | SHAMAM | JK | F | BSc I | ENG | A | | |
| 6 | G-1006 | 19006 | SHREYA OPADHYAY | MS | F | BSc I | ENG | 30 | | |
| 7 | G-1006 | 19007 | MEERZA JAGRANA | VS | F | BSc I | ENG | 18 | | |
| 8 | G-1006 | 19008 | POONAM SAHJ | SC | F | BSc I | ENG | 13 | | |
| 9 | G-1006 | 19009 | KAVITA THAKUR | SL | F | BSc I | ENG | 13 | | |
| 10 | G-1006 | 19010 | PRANJOT KAUR | SB | F | BSc I | ENG | 18 | | |
| 11 | G-1006 | 19011 | IRSA DALY | NS | F | BSc I | ENG | A | | |
| 12 | G-1006 | 19012 | NAVJOT KAUR | NS | F | BSc I | ENG | 36 | | |
| 13 | G-1006 | 19013 | MAMTA SINGHA | SC | F | BSc I | ENG | 30 | | |
| 14 | G-1006 | 19014 | SHIVANI | SC | F | BSc I | ENG | 15 | | |
| 15 | G-1006 | 19015 | DEEPAKSA | MS | F | BSc I | ENG | A | | |
| 16 | G-1006 | 19016 | KETKI SHARMA | TS | F | BSc I | ENG | 34 | | |
| 17 | G-1006 | 19017 | JARDOO | SK | F | BSc I | ENG | A | | |
| 18 | G-1006 | 19018 | NAGDIP SINGLA | VS | F | BSc I | ENG | 36 | | |
| 19 | G-1006 | 19019 | PRASAD THAKUR | SL | F | BSc I | ENG | 36 | | |
| 20 | G-1006 | 19020 | JEENA | SL | F | BSc I | ENG | 36 | | |
| 21 | G-1006 | 19021 | AMAN PARLA | TS | F | BSc I | ENG | 18 | | |
| 22 | G-1006 | 19022 | SHAMOGITA HAIR | SBM | F | BSc I | ENG | 24 | | |
| 23 | G-1006 | 19023 | NANCY CHATURJ | MOO | F | BSc I | ENG | A | | |
| 24 | G-1006 | 19024 | NEHAL | SE | F | BSc I | ENG | A | | |
| 25 | G-1006 | 19025 | SOHALI | RS | F | BSc I | ENG | 30 | | |
| 26 | G-1006 | 19026 | MESHA | PK | F | BSc I | ENG | 38 | | |
| 27 | G-1006 | 19027 | KAUSHI GUPTA | PC | F | BSc I | ENG | 36 | | |
| 28 | G-1006 | 19028 | ARVISH MARYAMA | SC | F | BSc I | ENG | 18 | | |
| 29 | G-1006 | 19029 | SAGORI | RS | F | BSc I | ENG | 18 | | |
| 30 | G-1006 | 19030 | LATA | DK | F | BSc I | ENG | 12 | | |
| 31 | G-1006 | 19031 | SHIVANI | VE | F | BSc I | ENG | A | | |
| 32 | G-1006 | 19032 | VANDANA TYAGE | DK | F | BSc I | ENG | 12 | | |
| 33 | G-1006 | 19033 | RITVI | ST | F | BSc I | ENG | A | | |
| 34 | G-1006 | 19034 | SHIKHA KUM | MS | F | BSc I | ENG | A | | |
| 35 | G-1006 | 19035 | MISHRA | VE | F | BSc I | ENG | A | | |
| 36 | G-1006 | 19036 | VANSHIKA | RS | F | BSc I | ENG | A | | |
| 37 | G-1006 | 19037 | ANJALI THAKUR | ST | F | BSc I | ENG | A | | |
| 38 | G-1006 | 19038 | IRSA SINGLA | DK | F | BSc I | ENG | 48 | | TOP AC |
| 39 | G-1006 | 19039 | YASHVI | SC | F | BSc I | ENG | 44 | | TOP AC |

AC: Above cut off (for evaluation of Part B)
TOP: Top 10% of the Centre
Date: 01.03.2019

DR SP TYAGI
Co-ordinator NGPE
22 Adarsh Vihar, Rajpur Road Dehra Dun - 248001

INDIAN ASSOCIATION OF PHYSICS TEACHERS
206, 1st Floor, Adarsh Complex, OPR 4, Awas Vikas 1
Keshavpuram, Kalyanpur, Kanpur - 208017
NATIONAL GRADUATE PHYSICS EXAMINATION - 2019

| S.No | Centre | Roll No | Name of Candidate | Father | Gen | Class | Med | Marks | Rank | Remarks |
|------|--------|---------|-------------------|--------|-----|-------|-----|-------|------|---------|
| 40 | G-1006 | 19040 | VISHVI JAINA | SL | F | BSc I | ENG | 60 | | TOP AC |
| 41 | G-1006 | 19041 | PRINSA JAGGA | VE | F | BSc I | ENG | 54 | | TOP AC |
| 42 | G-1006 | 19042 | AARONAL DALAL | AKD | F | BSc I | ENG | A | | |
| 43 | G-1006 | 19043 | KRITI SHINLA | MS | F | BSc I | ENG | A | | |
| 44 | G-1006 | 19044 | ANANDITA SANCHI | NS | F | BSc I | ENG | 24 | | |
| 45 | G-1006 | 19045 | SHIVALI | MS | F | BSc I | ENG | A | | |
| 46 | G-1006 | 19046 | INDIP PREETI KAUR | NS | F | BSc I | ENG | A | | |

AC: Above cut off (for evaluation of Part B)
TOP: Top 10% of the Centre
Date: 01.03.2019

DR SP TYAGI
Co-ordinator NGPE
22 Adarsh Vihar, Rajpur Road Dehra Dun - 248001

- Four students of B.Sc (NM and CS) cleared the NGPE (National Graduate Physics Examination) conducted by IAPT (Indian Association of Physics Teachers) in January, 2020 and all are in the top 10%.



INDIAN ASSOCIATION OF PHYSICS TEACHERS

206, Adarsh Complex, Awas Vikas 1, Keshavpuram, Kalyanpur, Kanpur - 208017

NATIONAL GRADUATE PHYSICS EXAMINATION - 2020

G-1606

**PG GOVT COLLEGE FOR GIRLS
CHANDIGARH**

**CENTRE INCHARGE :
Dr ANJU SHARMA**

| S.No | Centre | Roll N | Name of Candidates | Father | Gen | Class | Med | Marks | Rank | Remarks |
|------|--------|--------|--------------------|--------|-----|-------|-----|-------|------|---------|
| 1 | G-1606 | 20001 | SIMRAN CHUGH | HS | F | BSc I | | 48 | | |
| 2 | G-1606 | 20002 | MEHAK PREET KAUR | GS | F | BSc I | | 42 | | |
| 3 | G-1606 | 20003 | DIKSHA KAUSHIK | SKK | F | BSc I | | 48 | | |
| 4 | G-1606 | 20004 | MUSKAN | RK | F | BSc I | | 30 | | |
| 5 | G-1606 | 20005 | SUKHPAL KAUR | GS | F | BSc I | | 18 | | |
| 6 | G-1606 | 20006 | MEDHAVI SOOD | AS | F | BSc I | | A | | |
| 7 | G-1606 | 20007 | PRERNA | MSS | F | BSc I | | 60 | | TOP AC |
| 8 | G-1606 | 20008 | DEEP SHIKHA PAL | RSP | F | BSc I | | 24 | | |
| 9 | G-1606 | 20009 | MEENAL PATHANIA | USP | F | BSc I | | A | | |
| 10 | G-1606 | 20010 | KIRTI KOHAR | CS | F | BSc I | | 24 | | |
| 11 | G-1606 | 20011 | AKSHITA | RK | F | BSc I | | 36 | | |
| 12 | G-1606 | 20012 | NIKITA SHARMA | NK | F | BSc I | | 30 | | |
| 13 | G-1606 | 20013 | AYUSHI | DP | F | BSc I | | 66 | | TOP AC |
| 14 | G-1606 | 20014 | NAITIK | BS | F | BSc I | | 36 | | |
| 15 | G-1606 | 20015 | AMULYA | VK | F | BSc I | | A | | |
| 16 | G-1606 | 20016 | JASMIN KAUR | JS | F | BSc I | | 30 | | |
| 17 | G-1606 | 20017 | BHARTI THAKUR | KR | F | BSc I | | 54 | | |
| 18 | G-1606 | 20018 | RADHIKA | NK | F | BSc I | | A | | |



INDIAN ASSOCIATION OF PHYSICS TEACHERS

206, Adarsh Complex, Awas Vikas 1, Keshavpuram, Kalyanpur, Kanpur - 208017

NATIONAL GRADUATE PHYSICS EXAMINATION - 2020

G-1606

**PG GOVT COLLEGE FOR GIRLS
CHANDIGARH**

**CENTRE INCHARGE :
Dr ANJU SHARMA**

| S.No | Centre | Roll N | Name of Candidates | Father | Gen | Class | Med | Marks | Rank | Remarks |
|------|--------|--------|---------------------|--------|-----|-------|-----|-------|------|---------|
| 40 | G-1606 | 20040 | KRITI SHUKLA | JNS | F | BSc | | 42 | | |
| 41 | G-1606 | 20041 | YASMAN KAUR SIDHU | DSS | F | BSc | | 90 | | TOP AC |
| 42 | G-1606 | 20042 | AANCHAL SINGH DALAL | AKD | F | BSc | | 66 | | TOP AC |
| 43 | G-1606 | 20043 | ANANDITA SINGHI | MSS | F | BSc | | 42 | | |
| 44 | G-1606 | 20044 | SHRUTI | RK | F | BSc | | 36 | | |

- Three students of B.Sc (NM and CS) cleared the NGPE (National Graduate Physics Examination) conducted by IAPT (Indian Association of Physics Teachers) in March, 2022 and all are in the top 10%.



INDIAN ASSOCIATION OF PHYSICS TEACHERS
206, Adarsh Complex, Awas Vikas 1 Keshavpuram, Kalyanpur, Kanpur - 208017
NATIONAL GRADUATE PHYSICS EXAMINATION - 2022

G-1606 P.G. GOVT COLLEGE FOR GIRLS, SEC-11, CHANDIGARH CENTRE INCHARGE : Dr. ANJU SHARMA






| S No | Centre | Roll N | Name of Candidates | Father | Gen | Class | Med | Marks | Rank | Remarks |
|------|--------|--------|--------------------|--------|-----|----------|-----|-------|------|---------|
| 1 | G-1606 | 22001 | NEESHKA BHAMBRI | BEB | F | B.Sc. I | ENG | A | | |
| 2 | G-1606 | 22002 | RUPAL | AK | F | B.Sc. I | ENG | A | | |
| 3 | G-1606 | 22003 | TAJINDER KAUR | NS | F | B.Sc. I | ENG | A | | |
| 4 | G-1606 | 22004 | ALKA | PK | F | B.Sc. I | ENG | A | | |
| 5 | G-1606 | 22005 | NAVEEN KAUR | NS | F | B.Sc. I | ENG | A | | |
| 6 | G-1606 | 22006 | GARIMA | AR | F | B.Sc. I | ENG | A | | |
| 7 | G-1606 | 22007 | SARITA DEVI | JS | F | B.Sc. I | ENG | A | | |
| 8 | G-1606 | 22008 | RAKHI | BS | F | B.Sc. I | ENG | A | | |
| 9 | G-1606 | 22009 | BHUMIKA SHARMA | SDS | F | B.Sc. II | ENG | A | | |
| 10 | G-1606 | 22010 | ANSHIKA VOHRA | RV | F | B.Sc. II | ENG | 24 | | |
| 11 | G-1606 | 22011 | DIVANSHU GOYAL | PK | F | B.Sc. II | ENG | 24 | | |
| 12 | G-1606 | 22012 | SHIVANI THAKUR | JS | F | B.Sc. II | ENG | A | | |
| 13 | G-1606 | 22013 | GURMUKH KAUR | NS | F | B.Sc. II | ENG | 12 | | |
| 14 | G-1606 | 22014 | VAISHALI | PK | F | B.Sc. II | ENG | 12 | | |
| 15 | G-1606 | 22015 | CHINKEY | RK | F | B.Sc. II | ENG | 30 | | |
| 16 | G-1606 | 22401 | SADHVI | SK | F | BSc I | ENG | A | | |
| 17 | G-1606 | 22402 | ASHMEET KAUR | PK | F | BSc I | ENG | A | | |
| 18 | G-1606 | 22403 | NEHA | BS | F | BSc I | ENG | A | | |
| 19 | G-1606 | 22404 | ADITI GOND | JKG | F | BSc I | ENG | A | | |
| 20 | G-1606 | 22405 | NANCY GUPTA | BG | F | BSc III | ENG | A | | |
| 21 | G-1606 | 22406 | SHVANGI | SK | F | BSc III | ENG | 48 | | TOP AC |
| 22 | G-1606 | 22407 | YUKTA SHARMA | SK | F | BSc III | ENG | 54 | | TOP AC |
| 23 | G-1606 | 22408 | ANEET KAUR | RS | F | BSc III | ENG | 42 | | |
| 24 | G-1606 | 22409 | MANPREET KAUR | AS | F | BSc III | ENG | 72 | | TOP AC |
| 25 | G-1606 | 22410 | ARUSHI MITTAL | VM | F | BSc III | ENG | 42 | | |
| 26 | G-1606 | 22411 | MAHAK POONIA | JP | F | BSc II | ENG | A | | |
| 27 | G-1606 | 22412 | ANISHA BHAYANA | RK | F | BSc I | ENG | A | | |






AC: Above cut off [for evaluation of Part B]
TOP: Top 10 % at the Centre
Dated: 10.5.2022

Prof. B P Tyagi
Chief Coordinator (Examination)

Dr. Anil K Singh
Coordinator NGPE
Ewing Christian College Allahabad




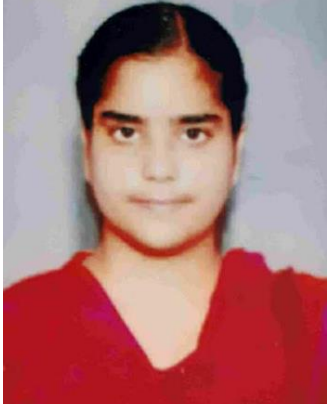
III. RESULTS OF COMPETITIVE EXAMS

| | | |
|----|---|--|
| 1. |  | Ms. Tanya has qualified Joint admission test for Masters (JAM) (All India Ranking 824) in 2018 under the Registration No: CY804F204. |
| 2. |  | Ms. Priyanka has qualified JAM (All India Ranking 1067) in 2019 under the Registration No: PH805F348. |
| 3. |  | Ms. Tanya has qualified GATE (All India Ranking 885) in 2020 under the Registration No: CY20S28016041. |
| 4. |  | Ms. Yasman has qualified JAM (All India Ranking 1139) in 2020 under the Registration No: PH807F120. |
| 5. |  | Ms. Mehak has qualified GATE (All India Ranking 2480) in 2021 under the Registration No: PH21S26058304. |

| | | |
|-----|---|--|
| 6. |  | <p>Ms. Mehak has qualified JAM (All India Ranking 575) in 2021 under the Registration No: PH805F192.</p> |
| 7. |  | <p>Ms. Poonam has qualified GATE (All India Ranking 318) in 2021 under the Registration No: MA21S53010156.</p> |
| 8. |  | <p>Ms. Anu has qualified GATE (All India Ranking 3384) in 2021 under the Registration No: PH21S23042192.</p> |
| 9. |  | <p>Ms. Priyanka Singh has qualified JAM (All India Ranking 1067) in 2021 under the Registration No: MA806A201.</p> |
| 10. |  | <p>Ms. Yashvi of B.Sc. III qualified NAEST 2018, examination</p> |

INTERNSHIPS

SESSION: 2020-2021

| | | |
|----|---|--|
| 1. |  A portrait of a young woman with dark hair pulled back, wearing a dark blue polo shirt with a small logo on the left chest. | <ul style="list-style-type: none">• Ms. Jyoti of M.Sc. II Physics has done a CIBioD internship during the session 2020-21.• Ms. Jyoti of M.Sc. II Physics has done CSIR-Summer Research Training program (internship) during the session 2020-21. |
| 2. |  A portrait of a young woman with dark hair, wearing a black and white patterned top with geometric designs. | <ul style="list-style-type: none">• Ms. Palavi Sharma of M.Sc. II Physics has done a CIBioD internship during the session 2020-21. |
| 3. |  A portrait of a young woman with long dark hair, smiling, wearing a yellow top. | <ul style="list-style-type: none">• Ms. Nazia of M.Sc. II Physics has done a CIBioD internship during the session 2020-21. |
| 4. |  A portrait of a young woman with dark hair, wearing a red top. | <ul style="list-style-type: none">• Ms. Parmeet Kaur of M.Sc. II Physics has done CSIR- Summer Research Training program (internship) during the session 2020-21. |

INDUSTRIAL VISITS



Punjab Communications Limited, SAS Nagar, Mohali



Mahindra and Mahindra Limited, SAWARAJ Division, Mohali



M.Sc. 2 Physics (2021-22) List of Students (Industrial Visits)

| Sr. No. | Roll No. | Student Name | Title of Industrial Visit | Place of Industrial Visit | Date of Industrial Visit |
|----------------|-----------------|---------------------|--|--|---------------------------------|
| 1 | 2651 | Nidhi Sharma | Working of Inverter | Luminous Power Technologies Pvt Ltd, Gagret (H.P.) | 25-Nov-21 |
| 2 | 2652 | Anjali | Working of Motherboard, PCB Design and PLCC | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 3 | 2653 | Ashima Bhuyan | Printed Circuit Boards (PCB) Design and PLCC | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 4 | 2656 | Nikita Chhabra | Working of Welding Machines | FABTECH, Phase 9, Mohali | 25-Nov-21 |
| 5 | 2659 | Arsheep Verma | Working of Motherboard, PCB Design and PLCC | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 6 | 2661 | Monika Sharma | Surface Mount Devices (SMD) Assembly | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 7 | 2663 | Simran | Window Air Conditioner : Its Types and Working | Amber Enterprises India Limited, Rajpura(Punjab) | 25-Nov-21 |
| 8 | 2664 | Navneet Kaur | Working of Window Air Conditioner | Amber Enterprises India Limited, Rajpura(Punjab) | 25-Nov-21 |
| 9 | 2665 | Rayman Goel | Surface Mount Devices (SMD) Assembly | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 10 | 2669 | Jasmeen Kaur | Solder Paste Screen Printer : Assembly of Components | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 11 | 2670 | Mahima Kaushik | Solder Paste Screen Printer : Assembly of Components | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 12 | 2671 | Shikha Pathania | Working of Motherboard, PCB Design and PLCC | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 13 | 2672 | Mansi Rathour | Working of Window Air Conditioner | Amber Enterprises India Limited, Rajpura(Punjab) | 25-Nov-21 |
| 14 | 2673 | Isha | Working of Welding Machines | FABTECH, Phase 9, Mohali | 25-Nov-21 |
| 15 | 2674 | Sophia | Working of Motherboard, PCB Design and PLCC | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 16 | 2675 | Navjot kaur | Working of Window Air Conditioner | Amber Enterprises India Limited, Rajpura(Punjab) | 25-Nov-21 |
| 17 | 2676 | Adrija | Working of Welding Machines | FABTECH, Phase 9, Mohali | 25-Nov-21 |
| 18 | 2677 | Kanak | Construction and | Mahindra and Mahindra | 1-Dec-21 |

| | | | | | |
|----|------|----------------|---|---|-----------|
| | | | Working of a Tractor | Limited, SAWARAJ Division, Mohali | |
| 19 | 2678 | Sheetal thakur | Working of Motherboard, PCB Design and PLCC | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |
| 20 | 2680 | Jasleen Kaur | Working of Welding Machines | FABTECH, Phase 9, Mohali | 25-Nov-21 |
| 21 | 2681 | Rishika Gupta | Construction and Working of a Tractor | Mahindra and Mahindra Limited, SAWARAJ Division, Mohali | 1-Dec-21 |
| 22 | 2682 | Bhawna | Construction and Working of a Tractor | Mahindra and Mahindra Limited, SAWARAJ Division, Mohali | 1-Dec-21 |
| 23 | 2683 | Deepanshi | Construction and Working of a Tractor | Mahindra and Mahindra Limited, SAWARAJ Division, Mohali | 1-Dec-21 |
| 24 | 2684 | Chetna Sharma | Working of Welding Machines | FABTECH, Phase 9, Mohali | 25-Nov-21 |
| 25 | 2685 | Navee Thalwal | Solder Paste Printing | Punjab Communications Limited, SAS Nagar, Mohali | 25-Nov-21 |

RESEARCH PROJECTS

| M.Sc. 2 Physics (2021-22) List of Students (Research Projects) Department of Physics, PGGCG-11, Chandigarh | | | | |
|---|-----------------|------------------------|---|------------------------|
| S. No. | Roll No. | Name Of Student | Title of Research Project Work (Supervisor Name) | Supervisor Name |
| 1 | 2651 | Nidhi Sharma | Spectra of Positronium under Confinement | Ms. Dipti Munjal |
| 2 | 2652 | Anjali | Potential Energy Functions of Diatomic Molecules | Dr. Sarvpreet Kaur |
| 3 | 2653 | Ashima Bhuyan | Study of Wear Characteristics of Aluminium Metal Matrix Composites - A Review | Prof. Anju Sharma |
| 4 | 2656 | Nikita Chhabra | Rashba Spin-Orbit Interaction - A Literature based study | Ms. Dipti Munjal |
| 5 | 2659 | Arshdeep Verma | Study of Monte Carlo Program for HIJING for High Energy Hadronic and Nuclear Collisions | Dr. Gopika Sood |
| 6 | 2661 | Monika Sharma | Study of Wear Characteristics of Aluminium Metal Matrix Composites - A Review | Prof. Anju Sharma |
| 7 | 2663 | Simran | Isopin Physics in Heavy-ion Collisions at Intermediate Energies | Dr. Mandeep Kaur |
| 8 | 2664 | Navneet Kaur | Isopin Physics in Heavy-ion Collisions at Intermediate Energies | Dr. Mandeep Kaur |
| 9 | 2665 | Rayman Goel | Study of Wear Characteristics of Aluminium Metal Matrix Composites - A Review | Prof. Anju Sharma |
| 10 | 2669 | Jasmeen Kaur | Hunting the Ghost Particles : The Neutrinos | Dr. Anterpreet Kaur |
| 11 | 2670 | Mahima Kaushik | Hunting the Ghost Particles : The Neutrinos | Dr. Anterpreet Kaur |
| 12 | 2671 | Shikha Pathania | Study of Monte Carlo Program for HIJING for High Energy Hadronic and Nuclear Collisions | Dr. Gopika Sood |
| 13 | 2672 | Mansi Rathour | Faser Detector : A New Experiment Design to Chase the High Energy Neutrinos at the LHC | Dr. Anterpreet Kaur |
| 14 | 2673 | Isha | Nuclear Models | Dr. Mandeep Kaur |
| 15 | 2674 | Sophia | Study of Monte Carlo Program for HIJING for High Energy Hadronic and Nuclear Collisions | Dr. Gopika Sood |
| 16 | 2675 | Navjot Kaur | Spectra of Positronium Under Confinement | Ms. Dipti Munjal |
| 17 | 2676 | Adrija | Nuclear Models | Dr. Mandeep Kaur |
| 18 | 2677 | Kanak | Charge Stability Diagram of Two Dimensional Materials - Literature Based Study | Dr. Gaganpreet |
| 19 | 2678 | Sheetal Thakur | Potential Energy Functions of Diatomic Molecules | Dr. Sarvpreet Kaur |
| 20 | 2680 | Jasleen Kaur | Faser Detector : A New Experiment Design to | Dr. Anterpreet |

| | | | | |
|----|------|---------------|--|------------------|
| | | | Chase the High Energy Neutrions at the LHC | Kaur |
| 21 | 2681 | Rishika Gupta | Electronic Properties of Phosphorene - A Literature Based Study | Dr. Gaganpreet |
| 22 | 2682 | Bhawna | Study of Graphene Island Single Electron Transistor | Dr. Gaganpreet |
| 23 | 2683 | Deepanshi | I-V Characteristics of Phosphorene Heterojunction and Doped Phosphorene - Literature Based Study | Dr. Gaganpreet |
| 24 | 2684 | Chetna Sharma | Rashba Spin-Orbit Interaction - A Literature based study | Ms. Dipti Munjal |
| 25 | 2685 | Navee Thalwal | Study of Monte Carlo Program for HIJING for High Energy Hadronic and Nuclear Collisions | Dr. Gopika Sood |

EXTRA CURRICULAR ACTIVITIES

ON CAMPUS ACTIVITIES

| Name of student | Class | Event | Prize/Participation |
|---|--------------|--|------------------------------------|
| Session 2017-18 | | | |
| Priyanka | B.Sc II | Button Poetry Competition organized by the Literary and Debating Society | 1 st |
| Vanshika | B.Sc II | Slogan Writing Contest organised by the Library Department | 1 st |
| Session 2018-19 | | | |
| Mehak Sood | B.Sc. I | <ul style="list-style-type: none">• Annual Athletic Meet• Mathematics Quiz organized by SIGMA Society | 2 nd 3 rd |
| Vanshika | B.Sc. III | NSS Camp from 16-22 October, 2018 | Participated |
| Session 2019-20 | | | |
| Nikhita, Gurleen, Ruchi and Nishtha | B.Sc. II | Inter-College Video Making Competition on World Environment Day | 1 st |
| Muskan, Tanvi, Nitisha, Mandeep, Sanjana, Shruti and Ayushi | B.Sc. I | Inter-College Video Making Contest | 3 rd |
| Session 2020-21 | | | |
| Aman Pabla | B.Sc. III | Inter-College Short Film Making competition | 1 st |
| Muskan | B.Sc. II | Inter-College Quiz Competition | 2 nd |
| Shruti | B.Sc. II | Inter-College Quiz Competition organized by "Prakriti" Environment Society | 3 rd |
| Session 2021-22 | | | |
| Vaishali | B.Sc. III | Inter-College Poster Making Competition on | Participated |

| | | | |
|------------------|-----------|---|-----------------|
| | | Akshay Urja Diwas, 20 August, 2022 | |
| Preyanshi Sharma | B.Sc. II | Inter-College PowerPoint Presentation Competition on Akshay Urja Diwas | 1 st |
| Nitika Sahni | B.Sc. III | Inter-College PowerPoint Presentation Competition on “The Advances in Nanotechnology” | 2 nd |

OFF CAMPUS ACTIVITIES

| Name of student | Class | Institute | Event | Prize/ participation |
|------------------------|---------------|---|---|----------------------|
| Session 2017-18 | | | | |
| Arwinder Kaur | B.Sc. III | Mehar Chand Mahajan DAV College, Sector-36 Chandigarh | Collage Making Inter-College Competition | 1 st |
| Session 2018-19 | | | | |
| Ten Students | B.Sc. NM & CS | Semi-Conductor Laboratory, Department of Space, Govt. of India, S.A.S. Nagar, Mohali (Punjab) | Oral Presentation on “Application of Space Technology” | 3 rd |
| Session 2019-20 | | | | |
| Jasmin Kaur | B.Sc. II | S.A. Jain College Ambala city. | National level Essay Writing Competition organized by Eco club and Social Science Forum | Consolation prize |
| Sakshi Patwal | B.Sc. III | Mehar Chand Mahajan DAV College, Sector-36 Chandigarh | Power Point Presentation Competition | 2 nd |

| | | | | |
|------------------------|-----------|--|--|------------------------------------|
| Shivani | B.Sc. III | Mehar Chand Mahajan DAV College, Sector-36 Chandigarh | World's Ocean Day | Consolation prize |
| Aditi Saini | B.Sc. III | Mehar Chand Mahajan DAV College, Sector-36 Chandigarh | Inter-College Power Point Presentation Competition | Consolation prize |
| Session 2020-21 | | | | |
| Anjali | B.Sc. II | Career Trajectory with Monica | <ul style="list-style-type: none"> National Graphic Design and Caption Writing Contest National Poster Making Contest on "Women Empowerment" | 3 rd 3 rd |
| Celesty Chadha | B.Sc. III | Post-Graduate Govt. College for Girls, Sec 42, Chandigarh | Inter-College Competition of "Chemistry Behind Colours of Nature" | 3 rd |
| Pranjal Thakur | B.Sc. III | Govt. College of Commerce and Business Administration | Photography event of Parwaaz-E-GCCBA-2021 | 3 rd |
| Shruti | B.Sc. II | Post-Graduate Govt. College, Sec-46, Chandigarh Post-Graduate Govt. College for Girls, Sec 42, Chandigarh | Inter-College Poster Making Competition Inter-College Poster Making Competition organized by Environment Society | 3 rd 2 nd |
| Session 2021-22 | | | | |
| Hiteshna Samal | B.Sc. III | Guru Gobind Singh Khalsa College for Women, Jhar Sahib, | Group Dance General | 2 nd |

| | | | | |
|-----------------|-----------|--|--------|-----------------|
| | | Ludhiana | | |
| Simranjeet Kaur | B.Sc. III | Guru Gobind Singh Khalsa College for Women, Jhar Sahib, Ludhiana | Giddha | 2 nd |
| Navjot Kaur | B.Sc. II | Guru Gobind Singh Khalsa College for Women, Jhar Sahib, Ludhiana | Giddha | 2 nd |

ALUMNAE DETAILS



Captain Preeti Choudhary

- She is the **first woman** from **Chandigarh** received the “**Sword of Honour**” from Officer Lieutenant General Dewan Rabindranath Soni, General Officer Commanding-in-Chief on passing-out parade (POP) at Officers Training Academy in Chennai on 10th March, 2018. She was adjudged as **best all-round cadet** of a batch.



Ritu Nehra

- She is the Assistant Commandant, Border Security Forces, receiving **Sword of Honour** from Sh. Pankaj Kumar, Director General, BSF on Passing Day Parade of 45th batch on 27th October 2018.



Mahima Kaushik

- Selected in Indian Navy as Education Officer in Physics (2022)



Nitika Chabra

- Selected as Science Teacher in Government of Punjab (Schools)



Smriti

- Working as Air Traffic Controller in Airports Authority of India since 2019
- M.Sc Physics from Panjab University, Chandigarh
- Worked as Physics Teacher in PGGCG-11 (2016-17)
- Worked as TGT Physics in Army Public School Chandimandir (2019)
- Published Book “Nari Changing the Perceptions”
- Contributed as an editor to anthology “The Inspiration Collective”
- Rank 3 in PU PHD entrance test (2017)
- NET 2018 AIR 85
- CTET 2018
- PSTET 2018
- GATE 2019 AIR 241
- JEST 2019



Ishu

- Pursuing Ph.D. from Panjab University, Chandigarh
- M.Sc. Physics from from Panjab University, Chandigarh
- Worked as Physics Teacher in PGGCG-11(2018-19)
- JEST 2017
- BARC 2017
- GATE 2017 with AIR 340
- UGC NET 2018
- CTET 2019



Samridhi

- Elected as a fellow for India Fellowship program



Mishu Girdher

- Working as a Science Faculty In Punjab Govt. Girls Secondary School, Gharyala, Tarn Taran



Anushka Sharma

- Master of Business Administration (MBA) from Indian Institute of Management (IIM), Jammu



Mehak

- M.Sc. Physics, NIT Rourkela
- IIT JAM 2019 (AIR 575),
- GATE 2021 (AIR- 2480)



Dishita

- Master of Business Administration (MBA) from Fore School of Management, Delhi
- CAT 2020
- Volunteering as a intern for a social enterprise "OORJAA Sustainable Solutions LLP"



Yasman Kaur Sidhu

- M.Sc. (HS) - Physics (Specialization in Electronics) from Department of Physics, Panjab University, Chandigarh
- Cleared IIT JAM (2020)



Vanshika

- M.Sc Physics (Hons.) from Department of Physics, Panjab University, Chandigarh (2nd year)
- Rank 1 in PU CET(PG) - 2019



Vinny Jaidka

- M.Sc. Physics from Punjabi University, Patiala



Amanpreet Kaur

- M.Sc Physics (Hons.) from Department of Physics, Panjab University, Chandigarh (2nd year)
- Rank 7 in PU CET(PG) - 2019



Anjali Verma

- M.Sc. Statistics from Kurukshetra University, Kurukshetra



Palak

- Working as Chemistry Faculty in Aakash Institute, New Delhi



Amandeep Kaur

- M.Sc Physics (Hons.) , Department of Physics, Panjab University, Chandigarh
- Rank 2 in PU CET(PG) - 2019



Yashvi

- M.Sc. Medical Physics from Panjab University, Chandigarh
- Trainee at PGIMER, Chandigarh (as a part of course)
- Rank 2 in PU CET (Medical Physics)



Priyanka Jagga

- M.Sc. Physics from NIT Calicut
- Interning in an US-based organisation Open Health Systems Laboratory (OHSL)
- Among Top 5% in IIT Jam (2019)



Harsimran Kaur

- Master of Computer Applications (MCA) from Panjab University, Chandigarh



Gunjan Dhamija

- Selected as Accountant in Controller General of Accounts (Central Government)
- Cleared SSC CGL-2018



Kumari Seema

- Working as manager in Soinsvie Pharmacia Pvt. Ltd, Panchkula, Haryana

**PHYSICS ASSOCIATION
“GALAXY” & ACTIVITIES
ORGANIZED**

PHYSICS ASSOCIATION “GALAXY”



The Physics Association “GALAXY” was established in the year 2007 with an aim to inculcate scientific temperament, to sharpen the organisational skills and tap the potential of the students. The activities organised by Galaxy enable the students to get exposed to the latest developments in Physics and showcase their talent through various co-curricular activities. Physics Association Galaxy organizes:

- Technical talks and National Seminars to provide a platform for the students to interact with professionals from various industries.
- Powerpoint presentation, Quiz and Poster making contests to create awareness amongst students about recent trends and developments.
- **M.C. Bhatia Award, “Best student in Physics”**, constituted by **Mrs. Kamlesh Chopra**, Former Physics faculty (in the memory of her parent) is given to a student who has excelled both in Academics and Co-curricular Activities

SESSION: 2017-18

INDEX

| S.No. | Activity | Date |
|-------|--|--|
| 1 | Capacity Building Workshop on “Magnificent World of Science” | 14 th September, 2017 |
| 2 | Two Day International Workshop on “Shock Waves In Science, Engineering And Medicine” | 23 rd & 24 th February, 2018 |

Capacity Building Workshop on “Magnificent World of Science”

Capacity Building Workshop on “Magnificent World of Science” under the aegis of RUSA was organized for the Undergraduate and Postgraduate science students on **14th September, 2017**. In this event, Dr. K.P. J Reddy from IISc, Bangalore delivered a talk on “Applications of Shock waves in Science, Engineering and Medicine”. Prof. KPJ Reddy is well known for his invention around the world for his “Reddy Shockwave Tube”. He elaborated that shock waves are produced by sudden release of energy like in explosions or volcanic eruptions, by bodies moving at supersonic speeds, by impact of high- speed projectiles and by laser ablation. He elaborated that shock waves are produced by sudden release of energy like in explosions or volcanic eruptions and by bodies moving at supersonic speeds. Approximately 300 students and about 75 staff members participated in the conference. Dr. Prince Sharma explained a major boost to defence research in the country through TBRL in ensuring total security. About 25 students participated in poster making competition. It was followed by lunch.



Speaker interacting with audience



Poster presentation session

Two Day International Workshop on “Shock Waves in Science, Engineering and Medicine”

Two Day International Workshop on “Shock Waves in Science, Engineering and Medicine” was organised on **23rd & 24th February, 2018** in collaboration with Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi, National Academy of Sciences Allahabad, Armament Research Board DRDO, New Delhi, Shock Waves Society of India Bengaluru and High Energy Materials Society of India (HEMSI), Chandigarh. Eminent professors like Prof. E. Arunan Prof. K.P.J. Reddy, Prof. Gopalan Jagdeesh and Prof. DipshikhaChakravorty delivered talks in this event. In addition to this, Dr. Venkata R. Kakulavarapu (Department of Bio-Medical Engineering, New Jersey, Institute of Technology, USA) and Dr. Frank Lu (Director of Aerodynamics Research Centre-Mechanical and Aerospace, University of Texas at Arlington, U.S.A), shared their knowledge to the participants on areas related to shock waves. The highlight of the workshop was interaction with the students Prof. Frank Lu who was the teacher of Indian NASA Astronaut, Ms. Kalpana Chawla. Approximately 100 students participated in this workshop.



Dignitaries at the dias during the session



Speaker addressing the audience



Speakers from renowned Institutions

SESSION: 2018-19

INDEX

| S. No. | Activity | Date |
|---------------|--|----------------------------------|
| 1 | A talk on “High Energy Experiments”, Just a Minute contest (JAM) and Inter-Class Poster Making Competition | 17 th September, 2018 |
| 2 | One Day Outreach Programme on "Use of space technology in smart cities" organized by SCL | 28 th September, 2018 |

A Talk on “High Energy Experiments”, Just A Minute Contest (JAM) and Inter-Class Poster Making Competition

Under the dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, Physics Department of PGGCG-11, Chandigarh organized a talk on “High Energy Experiments – An overview” on **17th September, 2018** by Prof. Vipin Bhatnagar from P.U, Chandigarh. He discussed the high energy experiments related to the discovery of God particle and explained the utilization of these in the field of medical science. Students took keen interest and asked various questions related to the talk during the discussion. The talk was followed by JAM and “Inter-Class Poster Making Competition”. Approx. 100 students of B.Sc. (Non-Medical and Computer Science) enthusiastically participated in this event. Principal, Prof. (Dr.) Anita Kaushal gave away the prizes to the winners. She congratulated them and motivated the students to participate in such events as they are of great help in boosting their morale and confidence.



Prof. V. P. Bhatnagar delivering a talk

Student receiving prize in JAM contest

Judges Prof. Bhatnagar and Prof. Iqbal Preet from DAV College Sector-10, Chandigarh admired all the students who took part in the contest. The Vice Principal, Prof. Nirupama Luthra appreciated the concept of the function (JAM) wherein participants were asked to speak for a minute. Ms. Simratpreet Kaur of the B.Sc.III (NM), Ms. Hemant of B.Sc. II (CS), Ms. Aanchal of B.Sc. II (NM) won the first, second and third prize respectively in Poster Making contest. In the JAM contest Ms. Akanksha of B.Sc. I (NM), Ms. Ankita of B.Sc. II (NM), Ms. Garima of B.Sc. II (CS) won the first, second and third prize. The consolation prizes were also awarded in both the categories.

One Day Outreach Programme On "Use of Space Technology in Smart Cities"

Ten students from B.Sc. (N.M. & C.S.) participated in One Day Outreach Programme on "Use of space technology in smart cities" organized by SCL at Panjab University, Chandigarh on **28th September, 2018**. This outreach programme primarily focuses to create awareness on the optimized flows of energy, goods, materials etc. which will significantly contribute to energy saving. Students were explained the efficient use of energy in cities which is most effective in terms of resource and climate protection. Overall, students gained knowledge about the usage of space technology in smart cities through this one-day outreach programme.



Third Prize in IISF-2018

SESSION: 2019-20

INDEX

| S. No. | Activity | Date |
|--------|---|------------------------------|
| 1. | Essay writing competition on Research Ideas on COVID-19 Pandemic | 26 th April, 2020 |
| 2. | A Webinar “The Role of Physics in Global Response to Covid-19” | 25 th May, 2020 |
| 3. | Power Point Presentation Contest on the Theme: The Role of Physics in Global Response To Covid-19 | 25 th May, 2020 |
| 4 | Counselling session for M.Sc. I Physics | 30 th May, 2020 |
| 5 | Video presentation during lockdown | 31 st May, 2020 |
| 6 | Seminar theme: Science and Technology | 14 th June, 2020 |

SESSION: 2020-21

INDEX

| S.No. | Activity | Date |
|--------------|--|--------------------------------|
| 1. | Poster Presentation | 9 th July, 2020 |
| 2. | PowerPoint Presentations through Online Mode | 16 th July, 2020 |
| 3. | Alumnae Interaction Session | 17 th July, 2020 |
| 4. | Virtual visit to Compact Muon Solenoid (CMS) experiment | 21 st October, 2020 |
| 5. | Online E-Poster Making Contest | 19 th April, 2021 |
| 6. | Video Making Contest: “Preventing Plastic Pollution and Providing Solutions for a Healthy Ocean” | 8 th June, 2021 |
| 7. | No Plastic - Pledge | 3 rd July, 2021 |

Essay Writing Competition on Research Ideas on COVID-19 Pandemic

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, the Department of Physics organized an essay writing competition on Research Ideas on COVID-19 Pandemic on **26th April, 2020**. The students presented their research ideas in the latest fields of technology, medicine and health. This activity gave students insight about the latest technology in the field of medicine and health. Approximately 50 students from B.Sc. (N.M. and C.S) participated in this event. Teachers of the Physics department motivate and encouraged the students during COVID-19 times. This competition was a good learning experience for students.

A webinar - “The Role of Physics in Global Response to Covid-19”

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, one day webinar was organized by the Department of Physics, PGGCG, Sector 11, Chandigarh on **25th May, 2020**. The speaker Prof. Sunita Srivastava, from Guru Jambheshwar University of Science and Technology, Hissar delivered a talk on “Role of Physics in global response to COVID-19”. Prof. S. Srivastava has made many contributions in the areas of soft matter physics, two dimensional materials and nanoscience. In her talk she discussed the role of Physics in understanding, analysing and providing solutions to the COVID-19 disease, human beings have ever confronted. She explained how Physics covers literally everything which includes how a disease is transmitted. Approximately 100 students attended the event.

**POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS,
SECTOR-11, CHANDIGARH
DEPARTMENT OF PHYSICS**

Organizes
WEBINAR on May 25, 2020



ROLE OF PHYSICS IN GLOBAL RESPONSE TO COVID-19 PANDEMIC

Programme of Webinar

SESSION-1

11:00 AM-11:05 AM : Welcome and opening Remarks by Prof. Anju Sharma
11:05 AM-11:10 AM : Inaugural Address by the Chief Guest Prof. (Dr.) Anita Kaushal
11:10 AM-11:30 AM : Professor Sunita Srivastava (Department of Physics, GJU of. Science & Technology, Hissar) keynote speaker will talk on Role of Physics in global response to COVID-19.
11:30 AM-11:35AM : Discussion with the speaker

SESSION-2

11:50 AM -11:55 AM : Session chair
11:55 AM -12:00 PM : Ms. Indeep Kaur (B.Sc-II) Robot detector in COVID-19
12:00 PM -12:05 PM : Ms. Akshita (B.Sc-I) Artificial Intelligence for COVID-19
12:05 PM -12:10 PM : Ms. Paarmeet Kaur (M.Sc. -I) Transformation in health care through Internet of Medical Things
12:10 PM -12:15 PM : Ms. Prisha (M.Sc. -I) Contribution of Internet on health care
12:15 PM-12:20 PM : Ms. Ishita Bhardwaj (B.Sc-I) Artificial Intelligence: For Vandalization of COVID-19

SESSION-3

12:45 PM -12:50 PM : Ms. Arushi (B.Sc-III) Role of Artificial Intelligence
12:50 PM -12:55 PM : Ms. Priti (B.Sc-II) Cloud and Virtualization in medical service
12:55 PM - 1:00 PM : Ms. Sukhpal Kaur (B.Sc-I) Cyber world and Data security
1:00 PM -1:05 PM : Ms. Jyoti (M.Sc. -I) Augmented reality and virtual reality
1:05 PM-1:10 PM : Vote of thanks by Dr. Saravpreet Kaur

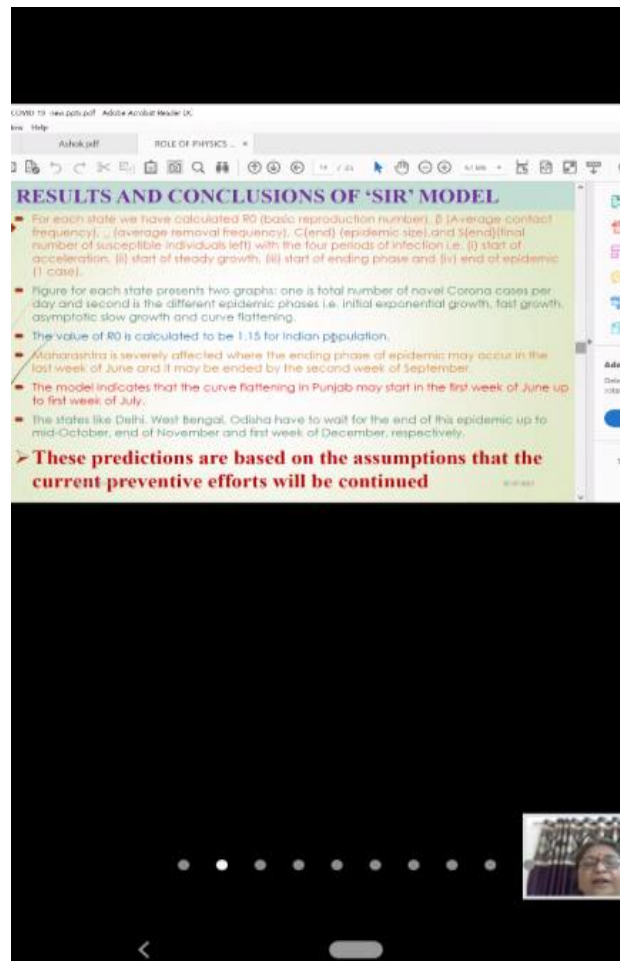
Convener
Prof. Anju Sharma

Co-Conveners:
Dr. Saravpreet Kaur
Dr. Gaganpreet
Dr. Anterpreet Kaur

Event poster



Online webinar



Online presentation by speaker

Power Point Presentation Contest Theme: “The Role of Physics in Global Response to Covid-19”

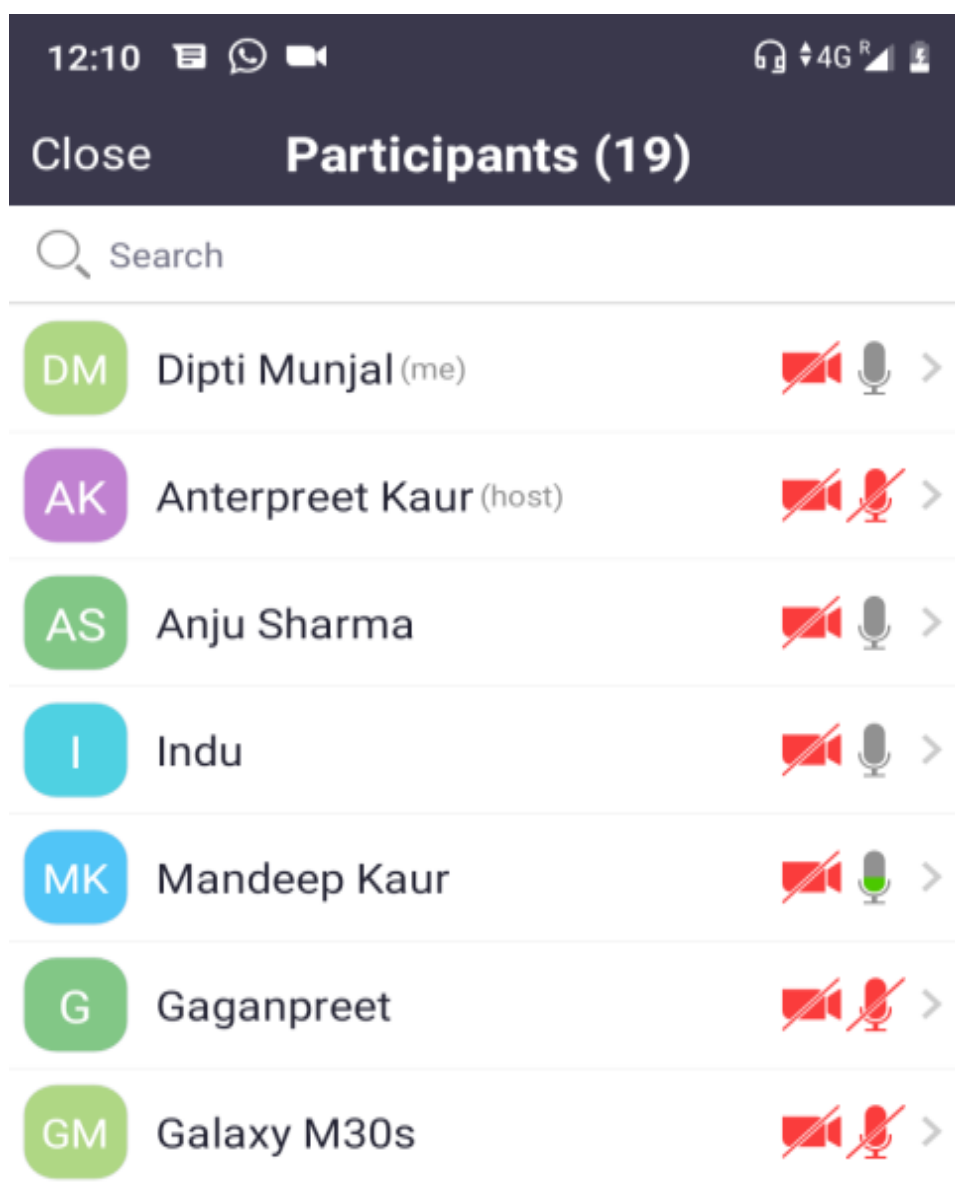
In the webinar organized by the Department of Physics on **25th May, 2020**, students of B.Sc. and M.Sc. Physics gave presentations on various topics such as Robot Detector, Artificial Intelligence, Internet of Medical things and Cyber world and Data security. This kind of activity makes students well versed with the current situation and teaches them ways to deal with it positively. Approximately 100 students attended the event.



Screenshot of student presentations

Counselling session for M.Sc. I Physics

Due to pandemic crisis, a sudden lockdown was announced by our government. This situation was not being handled by anyone in the past and also students were not physically connected with their teachers, classmates, and key support systems. This situation imposed increased mental health problems and lack of motivation among the students. So, under the able guidance of Principal Mam, Physics Department organized a counselling session for Post Graduate students on **30th May 2020**. Students discussed their problems and issues they were facing during the online classes. Teachers motivated and encouraged them to cope up with this adverse situation. This session was very much beneficial for students.



Screenshot of online counselling session

Video presentation during lockdown.

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, video making contest was organized by the Department of Physics, PGGCG, Sector 11, Chandigarh on **31st May, 2020**. Undergraduate students of the Physics department, PGGCG-11 prepared a video to show how they utilized their time during lockdown. In this, students shared their experience of lockdown and also showed their skills. Students showed singing, painting, gardening, meditation, exercise, dance and many more activities. This also motivated other students to deal with this situation and utilize their time in some productive output. Students actively participated in the event.



Student performing Yoga activity



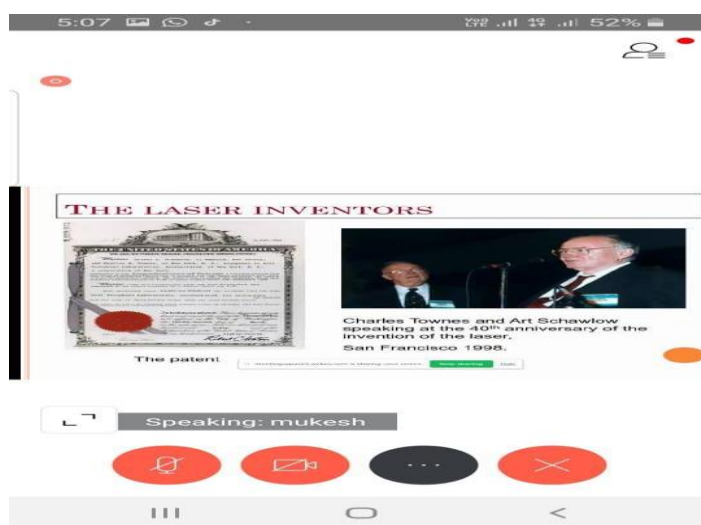
Poster Making activity by student

National Seminar theme : Science and Technology

Physics department of PGGCG-11 organized a seminar on ‘Science and technology for human welfare and its effects on conservation’ on **14th June 2020** via Google Meet. Around 80 participants attended the session. Dr. Mukesh Jewariya, Senior Scientist of Department: Physics of Energy Harvesting, in CSIR National Physical Laboratory, New Delhi delivered a talk on “An Introduction to Laser”. He presented the key concept of the laser, which was very beneficial for the students. This session provided a good platform to students as it made them aware of the use of lasers in different fields such as in medical, in communications, in science and technology, in military etc.



Speaker Presenting Online



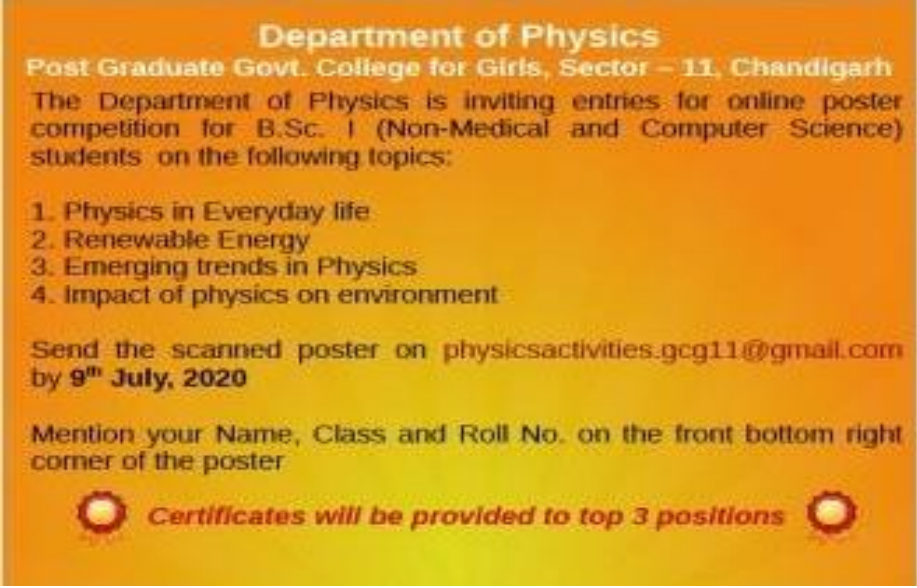
Presentation shared by the Speaker

SESSION: 2020-21

INDEX

| S.No. | Activity | Date |
|-------|--|--------------------------------|
| 1. | Poster Presentation | 9 th July, 2020 |
| 2. | PowerPoint Presentations through Online Mode | 16 th July, 2020 |
| 3. | Alumni Interaction Session | 17 th July, 2020 |
| 4. | Virtual visit to Compact Muon Solenoid (CMS) experiment | 21 st October, 2020 |
| 5. | Online E-Poster Making Contest | 19 th April, 2021 |
| 6. | Video Making Contest: “Preventing Plastic Pollution and Providing Solutions for a Healthy Ocean” | 8 th June, 2021 |

Poster Presentation



Department of Physics
Post Graduate Govt. College for Girls, Sector – 11, Chandigarh

The Department of Physics is inviting entries for online poster competition for B.Sc. I (Non-Medical and Computer Science) students on the following topics:

1. Physics in Everyday life
2. Renewable Energy
3. Emerging trends in Physics
4. Impact of physics on environment

Send the scanned poster on physicsactivities.gcg11@gmail.com by **9th July, 2020**

Mention your Name, Class and Roll No. on the front bottom right corner of the poster

Certificates will be provided to top 3 positions

Event poster

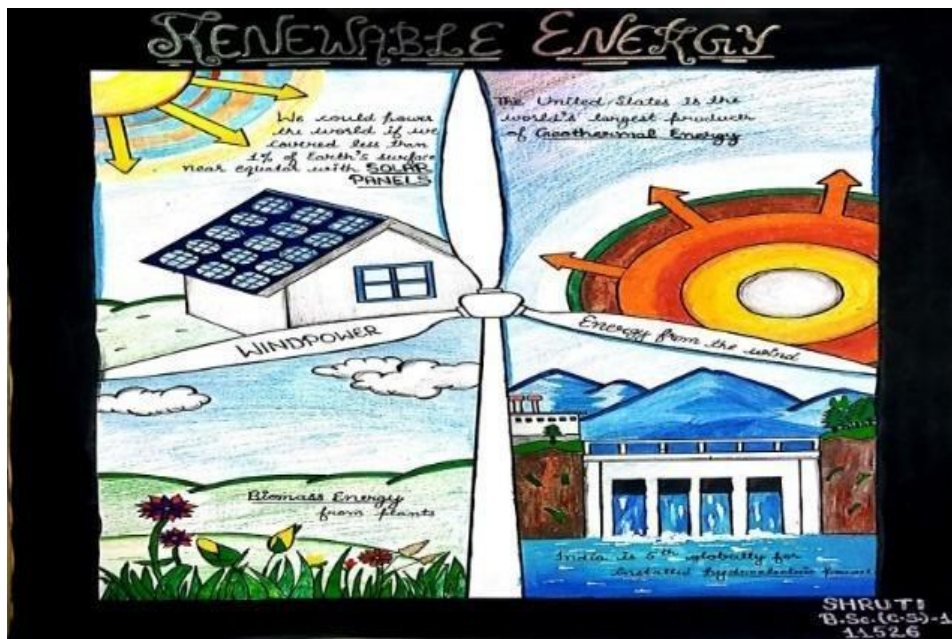
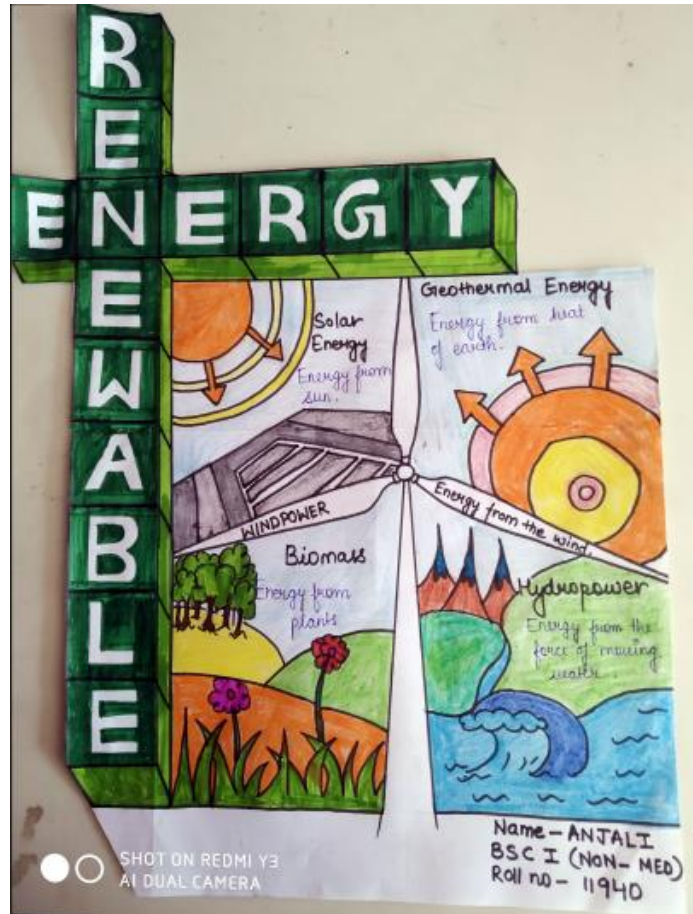
Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, poster competition was organized by the Department of Physics, PGGCG, Sector 11, Chandigarh on **9th July, 2020**. Around 10 students of B.Sc. I participated in a poster making contest. Different topics for the poster contest were Physics in Everyday life, Renewable Energy, Emerging trends in Physics and Impact of physics on the environment.

Result of Competition

First Position: Shruti (B.Sc. 1 CS) Roll No 11526, Anjali (B.Sc. 1 NM) Roll No 11940

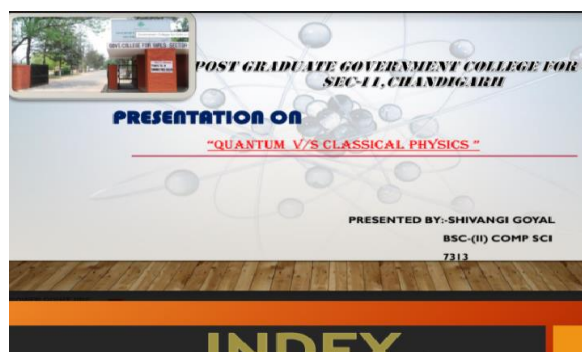
Second Position: Sejal (B.Sc. 1 NM) Roll No 11953

Third Position: Mehak (B.Sc. 1 NM) Roll No 11902



PowerPoint Presentations through Online Mode

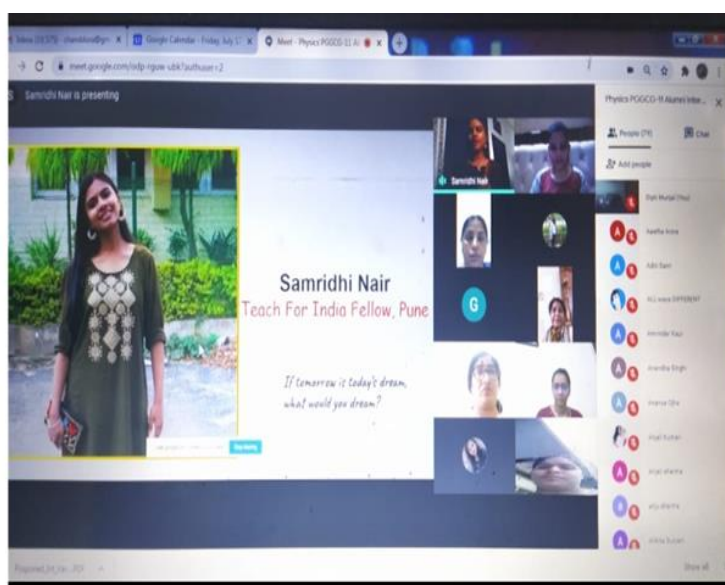
Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, an online Power-Point (PPT) competition for B.Sc. II students was organized by the Department of Physics, PGGCG, Sector 11, Chandigarh on **16th July, 2020**. Around 13 participants attended the session. The session was attended by Prof. Anju Sharma, Head of Department and other faculty members of the department. Students discussed the different topics related to Physics. They gave a deep insight about the structure of optical fiber and also discussed how one can use optical fiber as sensors. The views on recent developments in different areas of Physics such as Astrophysics, Optical Physics, Nuclear Physics, Quantum Physics etc. were also shared by the students. All the students participated with full enthusiasm. The faculty members encouraged the students for future participation also.



Screenshot of student's presentation

Online Alumnae Interaction Session

The Department of Physics, PGGCG-11 organized an online alumnae interaction session on **17th July, 2020** via Google meet. Around 100 participants attended the session. The session was attended by Prof. Anju Sharma (Head of Department) and other faculty members of the department. The session started with a welcome note by Ms. Dipti Munjal followed by presentations by alumnae. Firstly, Samridhi (working for “Teach For India Fellow’ at Pune) encouraged the students to actively participate in youth fests and also talked about leadership qualities. After her talk, Pawandeep (Student of Loyalist College Ontario, Canada) explained the scope and detailed admission procedure for enrolling in overseas universities. Then, Anushka (PG Student from IIM Jammu) shared her thoughts about stress management during and before the exams. Following her talk, Mehak (M.Sc Physics, NIT Rourkela), Priyanka (M.Sc Physics, NIT Calicut) and Vanshika (M.Sc Physics, P.U) discussed various exams and their preparations for getting admissions in different National Institutes. Moreover, Yashvi (M.Sc Medical Physics, P.U) and Seema Kumari (Manager at Soinsive Pharmicia) discussed the interdisciplinary role of physics. Overall, all presenting alumnae represented their content very nicely and in a very informative way. Alumnae lauded the efforts of the great initiative taken by the Physics department to organize such an event. They also expressed their gratitude towards their alma mater, Principal Madam of the college, HOD Physics department and other faculty members. The session ended with a motivational message given by Prof. Anju sharma



Alumnae meet

Virtual visit to Compact Muon Solenoid (CMS) Experiment

Under the able leadership and guidance of our worthy Principal Madam Prof. (Dr.) Anita Kaushal, Department of Physics, in collaboration with CERN, Geneva, Switzerland organized a VIRTUAL VISIT to Compact Muon Solenoid (CMS) experiment, at 12:30 pm on **21st October, 2020**. As “Seeing is Believing”, the CMS Virtual visit offered students and faculty a unique opportunity to get an international exposure for recent research and advances at the forefront of Physics, especially Particle Physics. This visit enabled to see the scale of engineering and technology required to help us answer some of the big questions like the beginning of the universe and basic building blocks of matter. Through a web-based video conference, Mr. Jacob Myhre, a member of CMS Visits and his team explained the physics and technology behind the experiment. The students explored the experimental site of the CMS detector. They also visited the CERN Control Center virtually where the controls for the accelerator, its services and technical infrastructure are housed under one roof. Around 50 students and faculty of Physics and from other departments attended the event.



Mr. Jacob Myhre presenting online



A virtual lab visit

Online E-Poster Making Contest

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal online Poster competition event was organized by the Department of Physics, PGGCG, Sector 11, Chandigarh on **19th April, 2021**. Physics plays a variety of roles in economic development. These roles are explored by students (13) of M.Sc. (Physics), B.Sc. (NM & CS), and B.Sc. Hons. -Physics from various colleges by participating in an online poster competition.

Result of online competition: -

First Position:

Mahima Kaushik (M.Sc. 1 Physics) Roll No 2670, Post Graduate Government College for Girls, Sector-11, Chandigarh

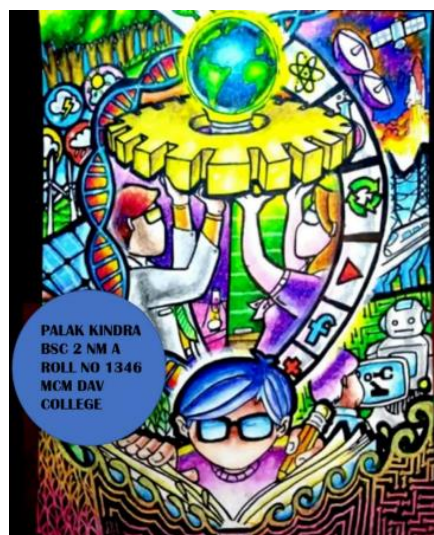
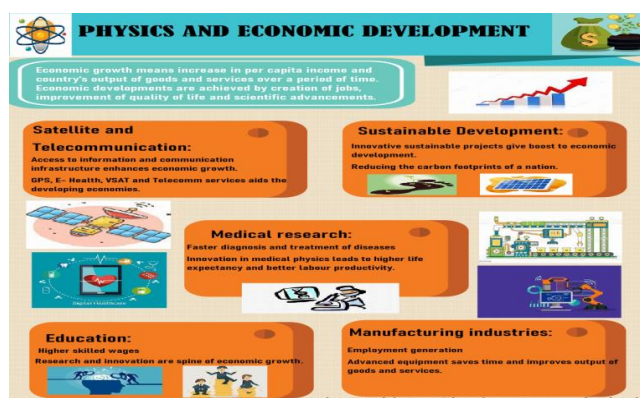
Second Position:

Shivani Goyal (B.Sc. 3 CS) Roll No 7313, Post Graduate Government College for Girls, Sector-11, Chandigarh

Third Positions:

Palak Kindra (B.Sc. 2 NM) Roll No 1346 MCM DAV College for Women, Sector- 36, Chandigarh

Arshdeep Verma (M.Sc. 1 Physics) Roll No 2659 Post Graduate Government College for Girls, Sector-11, Chandigarh



Posters displayed by students

Video Making Contest “Preventing Plastic Pollution and Providing Solutions for a Healthy Ocean”

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, the Department of Physics, PGGCG, Sector 11, Chandigarh celebrated World Oceans day on **8th June, 2021** by organizing a Video Making Contest on “Preventing Plastic Pollution and Providing Solutions for a Healthy Ocean”. Students of U.G and P.G participated in a video making contest. Students talked about how millions of tons of debris (most of it is plastic) are contaminating the ocean and the ocean has basically become a garbage soup. The solutions to the healthy ocean were also discussed. Three R’s- reduce, reuse and recycle – all help to cut down on the amount of waste we throw away. This contest made students aware among all how we can keep our oceans healthy and save marine life. Approximately 200 students participated in the event.

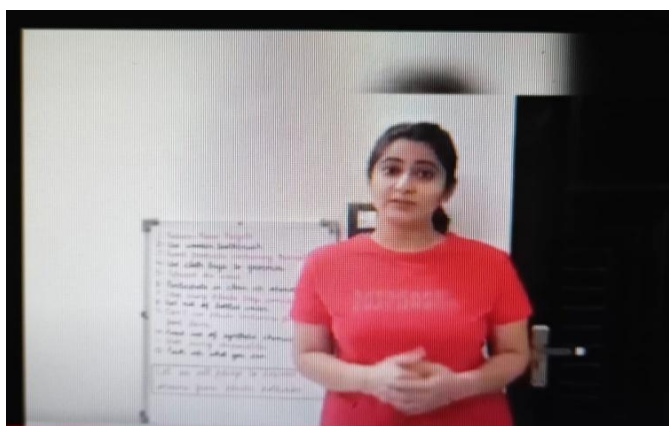
Result of competition: -

First Position: Ashima Bhuyan M.Sc.-I

Second Position: Adrija M.Sc.-I

Third Position: Arshdeep M.Sc.-I

Fourth Position: Sejal B.Sc. II (C.S)



Student during video making contest

SESSION: 2021-22

INDEX

| S.No. | Name of the Activity | Date |
|-------|---|---------------------------------|
| 1 | Webinar on Experimental Skills in Physics | 20 th August, 2021 |
| 2 | International Webinar “Exploring Opportunities in Physics” | 3 rd September, 2021 |
| 3 | Poster and Oral Presentation: “The Advances in Nanotechnology” | 13 th October, 2021 |
| 4 | Workshop : Financial Planning for Young Professionals | 24 th November, 2021 |
| 5 | Online International webinar on “Self Exploration - A journey to accepting obstacles” | 15 th January, 2022 |
| 6 | Open House discussion | 8 th March, 2022 |
| 7 | Online Webinar: “Engineering Exotic States of Light and Matter” | 27 th May, 2022 |
| 8 | Video Making Contest | 8 th June, 2022 |

No Plastic - Pledge

Under the able guidance of our worthy Principal Prof. (Dr.) Anita Kaushal, Post Graduate Govt. College for Girls, Sector 11, Chandigarh, the Department of Physics celebrated International Plastic Bag Free Day by organizing a Pledge Ceremony on **3rd July, 2021**. Prof. Anju Sharma, Head of the Physics Department, administered the “No Plastic Pledge” to their teaching and non-teaching staff. The faculty of the Department also administered the pledge to the students (400) of B.Sc. I, II, III Computer Science, B.Sc. III Non-Medical, M.Sc. 1 and M.Sc. 2 (Physics) on Google Meet. This ceremony certainly raised awareness among students and the community to protect and conserve the environment.

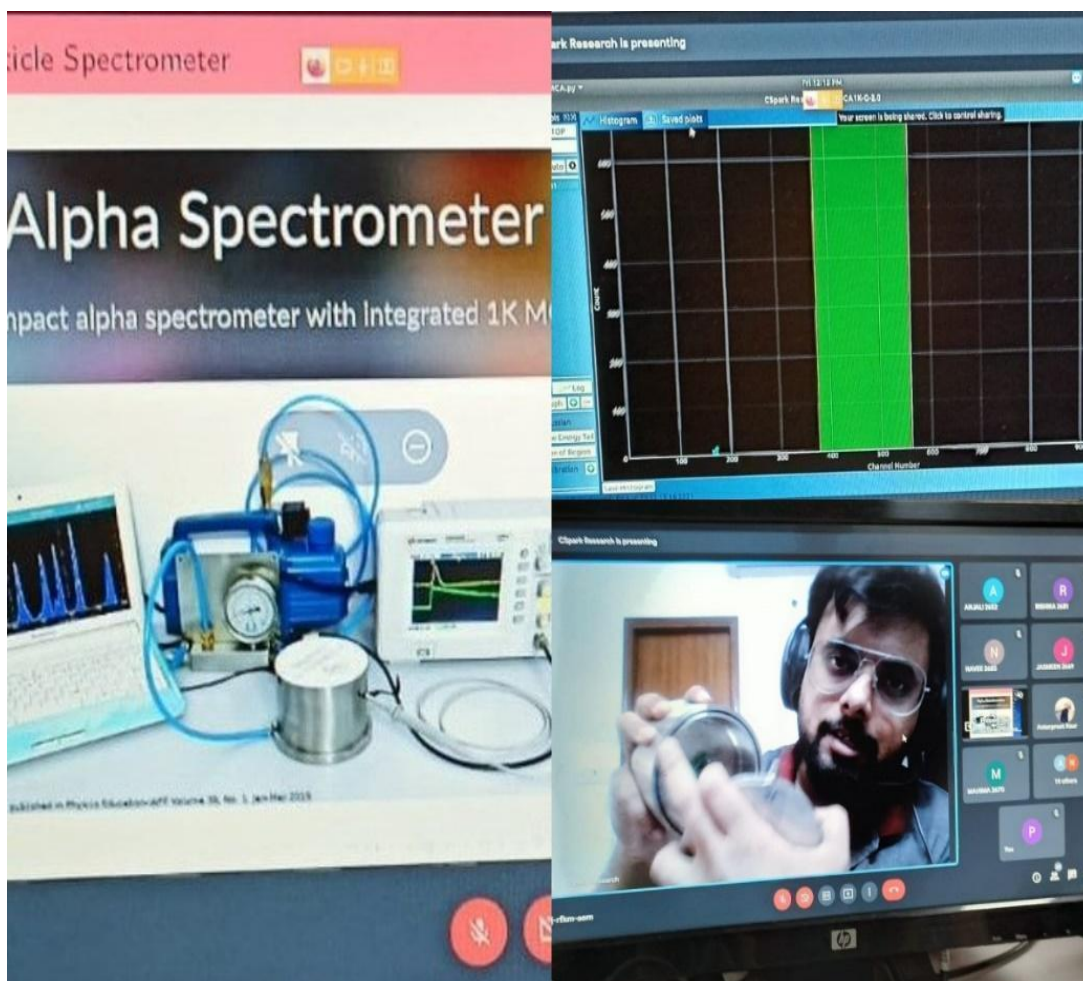
The following pledge was taken: "In order to play a part in environmental conservation, I pledge to refrain from using any plastic container, plastic bags and cutlery for my take-away meals. I also pledge to bring my own recycle bags for grocery shopping”.



Faculty and students during the Pledge Ceremony

Webinar on Experimental Skills in Physics

Under the able guidance of Prof. (Dr.) Anita Kaushal, Principal, Post Graduate Government College for Girls, Sector - 11, Chandigarh, the Department of Physics under the aegis of Science Society, Jigyasa organized an online webinar on the theme “Webinar on Experimental Skills in Physics” on **20th August, 2021** by Mr. Abhishek Kumar from CSPARK Research (OPC) Pvt. Ltd., New Delhi.



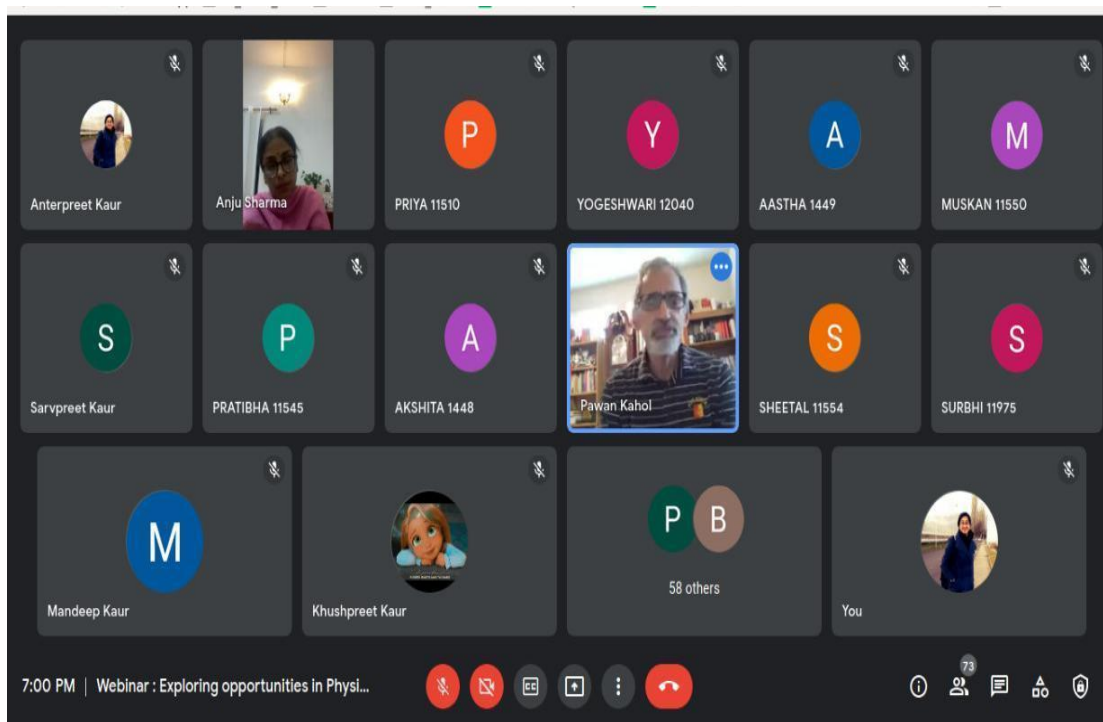
Speaker delivering the lecture

Around 25 students of M.Sc. II Physics participated in this activity. He very well explained the experimental set up of the gamma-ray spectrometer and determination of energy, energy resolution using multi-channel analyzer in detail. Overall, this webinar was very useful for the students.

International Webinar “Exploring Opportunities in Physics”

Under the able guidance of Prof. (Dr.) Anita Kaushal, Principal, Post Graduate Government College for Girls, Sector - 11, Chandigarh, the Department of Physics organized an online International webinar on “Exploring Opportunities in Physics” on **3rd September, 2021** by Prof. Pawan Kahol, Former Dean of Graduate and Continuing Studies at Pittsburg State University, U.S.A. Students of B.Sc. III, B.Sc. II Hons and M.Sc. II (100) participated in this activity.

Prof. Pawan Kahol shared his Professional Career as a Scientist. He talked about various opportunities in the field of Physics for the students who want to pursue in foreign countries, especially U.S.A. At the end of the talk, Prof. Kahol interacted with the students. The students gained a lot from this webinar as he briefed about the selection criteria to take admissions in various Post graduate courses and pursue research in Physics.



Students attending the webinar

Poster and Oral Presentation: “The Advances in Nanotechnology”.

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, the Department of Physics organized poster making and oral presentations competition on the theme titled “The Advances in Nanotechnology” on **13th October, 2021**. The students of B.Sc. (Non-Medical and Computer Science) and M.Sc. Physics enthusiastically participated in this event. This event provided a platform, where participants shared their knowledge in the field of nanotechnology. Around 50 students participated in this event. The oral and poster presentations by the students were a reflection of the knowledge, creativity and imagination which conveyed the theme of the competition very well. Judges of the competition encouraged and motivated the students to participate in such events as they are of great help in boosting their morale and confidence.

Overall, all participants represented the recent advances in nanotechnology very nicely and in a very informative way. The result the competition is

Winners of oral presentations:

Ms. Jasmeen Kaur (M.Sc. II) Ist prize
Ms. Nitika (B.Sc. III Non-Medical) IInd prize

Ms. Rishika (M.Sc. II) IIIrd prize
Ms. Lalita (B.Sc. III C.S) Consolation prize

Winners of poster presentations

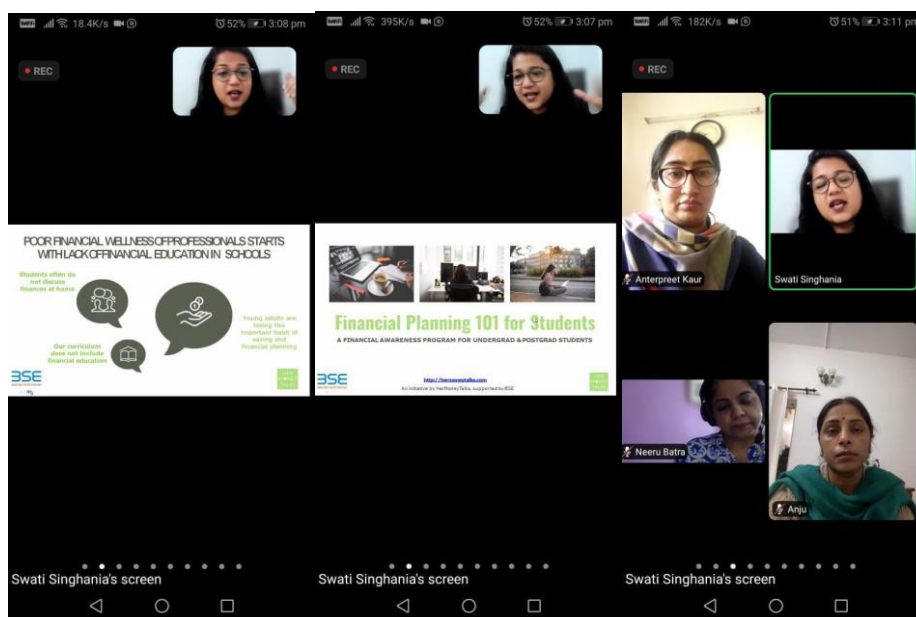
Ms. Manisha (B.Sc. II CS) Ist prize
Ms. Ishita Bharadwaj (B.Sc. III CS) IInd prize
Ms. Astha (B.Sc. I) IIIrd prize
Ms. Ritika (B.Sc. III) Consolation prize
Ms. Ramandeep Kaur (B.Sc. III) Consolation prize
Ms. Mahima (B.Sc. III) Consolation prize



Poster presentation by students

Workshop: Financial Planning for Young Professionals

Under the able guidance of Prof. (Dr.) Anita Kaushal, Principal, Post Graduate Government College for Girls, Sector - 11, Chandigarh, the Department of Physics in collaboration with BSE (Bombay Stocks Exchange) India Ltd and Association of Indian Principles (AIP) organized an online workshop on “Financial Planning for Young Professionals” by Ms. Swati Singhania, Financial Coach, Her Money Talks as a part of World Investor Week 2021 on **24th November, 2021**. Students of M.Sc. I, M.Sc. II, B.Sc. III Hons. and B.Sc. II Hons participated in this activity very enthusiastically. This workshop provided an insight into the world of financial planning. It was followed by an interactive session in which queries of students regarding financial planning, investment and savings were answered.



Participants in online webinar

Online webinar on “Self Exploration - A journey to accepting obstacles

Department of Physics, organized an online talk cum interactive session online international webinar on “Self Exploration - A journey to accepting obstacles”, by Samridhi Nair, an alumna of Post Graduate Government College for Girls, Sector - 11, Chandigarh on **15th January, 2022**. She is a fellow of Teach for India, under the program, Teach for all, America. Approximately 200 students participated in the event. As Rumi put it right, “You are searching the word for treasure, but the real treasure is yourself”. Ms. SAMRIDHI excellently took this thought to the next level by sharing experiences from her life and including the series of Q/A. She opened the session with a beautiful, self written poem where she described how she first met with an accident and the tested covid-19 positive. These tough times taught her that life is fickle and should enjoy every moment to the greatest and that could be achieved if we “celebrate ourselves”. To make the session interactive she asked the participants whether they have met with some ordeals in their pasts and they responded to it. This session observed great participation. She stressed on the fact that living to the fullest and enjoying every moment comes from self-acceptance and celebrating yourself. She even quoted her friend “no matter what you have, you need to make the best of whatever you have”. She always followed her heart and prompted the participants to do so. She conducted the session with an activity where the participants were asked to draw their rough sketches and list down their virtues. She also asked the participants to perform an activity that insisted on listing down the qualities or character traits we admire.



Students attending the lecture

Open House Discussion

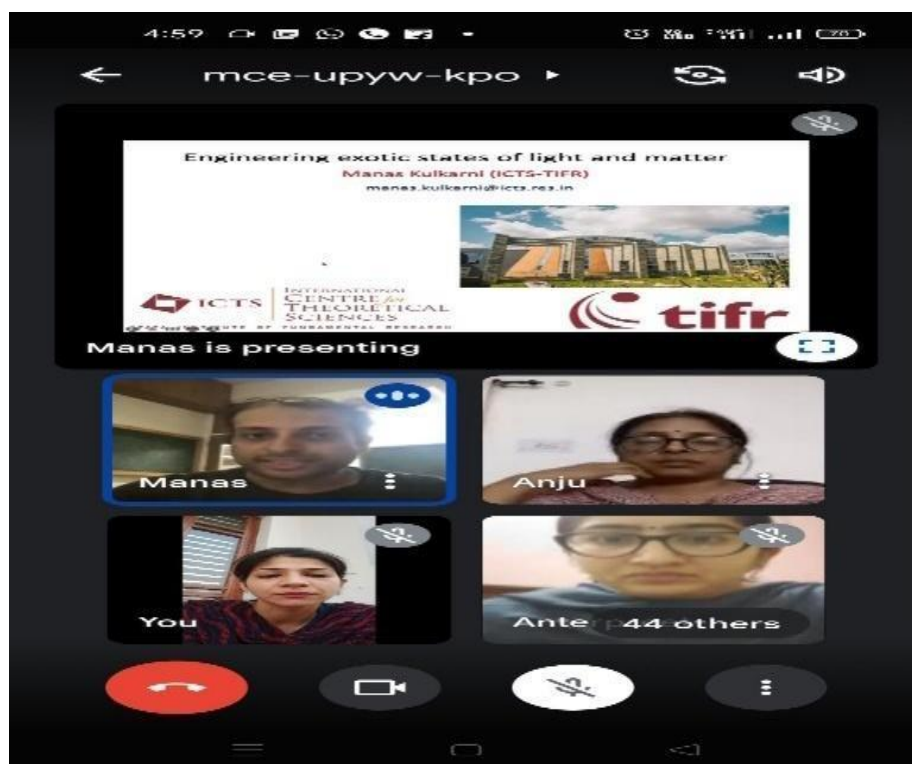
Under the able guidance of Prof. (Dr.) Anita Kaushal, Principal, Post Graduate Government College for Girls, Sector - 11, Chandigarh, the Department of Physics, under the aegis of Azadi Ka Amrit Mahotsav celebrated International Women's Day on **8th March, 2022**. In view of this, an open house discussion was conducted on a women-centric theme. The floor was open to discuss ideas and issues faced by women. Meetali, a student of M.Sc. 1 Physics, talked about rampant street harassment faced by women in public areas. The "Gedi Culture" in Chandigarh was discussed. Concerns were expressed on glorification of stalking and eve teasing in Punjabi music videos. Resources were shared on how to combat street harassment. The "freeze" response to trauma of harassment was discussed. It is important to deal with it empathetically. Another M.Sc. 1 student, Pushpita talked about fake feminism that how sometimes women rights are weaponised for personal vendetta. The importance of equality was highlighted. We must stand up for ourselves and raise our voice whenever required. Arushi talked about patriarchal thinking in households, differential treatment of boys and girls and how it affects freedom of women. Nikita, M.Sc. 2 student discussed the positive change in societal thinking. Social customs are being redefined. More married women are taking care of their parents. These changes were appreciated. The open house discussion ended on a note that there is an increase in awareness among girls and they are together in combating various issues faced by women in daily life.



Discussion with students

Online Webinar: Engineering Exotic States of Light and Matter”

Under the able guidance of Prof. (Dr.) Anita Kaushal, Principal, Post Graduate Government College for Girls, Sector - 11, Chandigarh, the Department of Physics under the aegis of Galaxy, Physics Association organized an online seminar on **27th May, 2022**. Dr. Manas Kulkarni, International Centre for Theoretical Sciences, TIFR, Bengaluru gave a talk on “Engineering Exotic States of Light and Matter”. The seminar focused on Light Matter Systems/ Engineered Systems, its fundamental concepts and applications. The students of M.Sc. Physics 1st and 2nd year and B.Sc. Hons. 2nd and 3rd year and the faculty members were present in the seminar. The speaker shared his research work and talked about Open Quantum Systems/Non-Hermitian Systems. He gave several examples of Classical Entanglement, Quantum Entanglement, Lasers, Diodes etc. He talked about the Entanglement and its different types by giving examples of rope. He also showed the experimental results of (time evolution of entanglement). He also covered other topics including current of photons, electronic systems coupled to light, Quantum Devices (diodes, rectifiers, transistors), combining cold atoms with light. He also explained about Rice-sized lasers powered by single electrons tunneling through artificial atoms known as quantum dots. At the end, an interactive session with students as well as faculty was held.



Screenshot of online webinar

Video Making Contest

Under the able guidance and dynamic leadership of Principal, Prof. (Dr.) Anita Kaushal, the Department of Physics, PGGCG, Sector 11, Chandigarh under the aegis of Galaxy, Physics Association, celebrated World Oceans day on **8th June, 2022** by organizing a Video Making Contest on “Revitalization : Collective Action for the Ocean”. Students of U.G and P.G participated in a video making contest. Students talked about how millions of tons of debris (most of it is plastic) are contaminating the ocean and the ocean has basically become a garbage soup. The solutions to the healthy ocean were also discussed. Three R’s- reduce, reuse and recycle – all help to cut down on the amount of waste we throw away. This contest spreads awareness among all how we can keep our oceans healthy and save marine life.



Event poster

Result of competition: -

First Position: Ashima Bhuyan (2653) M.Sc.-II

Second Position: Anshika Vohra (1903) B.Sc.-II (N.M)

Third Position: Preyanshi Sharma (1841) B.Sc.-II (N.M)

Consolation: Anusha (6811) B.Sc. II (C.S)

ANNEXURE

Time Tables

SESSION: 2017-18

Post Graduate Govt. College For Girls, Sector-11, Chandigarh

Time Table Of Physics Department 2017-18(w.e.f.21.8.17)

| Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Total |
|---------------------|------------------------------------|-----------------------------|---------------------------------|--------------------------------------|----------------------------------|-------------------------------|-----------|---|-------|
| | 9.00-9.55 | 9.55-10.50 | 10.50-11.45 | 11.45-12.40 | 12.40-1.35 | 1.35-2.30 | 2.30-3.25 | | |
| Ms. Rajni Arora | B.Sc. III (Th.) (4) 123 | | | B.Sc. III (Th.) (3) 123 (1-2) 127 | | | | | |
| Ms. Anju Sharma | B.Sc. I (Th.) (3) 123 (1-2) 127 | | B.Sc. I (Pr.) (5-6) (Lab 1,2) | | B.Sc. III (Pr.) (1-4) (Lab 1) | | | | 16 |
| | B.Sc. II Pr. (3,6) | | B.Sc. II Th. (3,6) | | B.Sc. III (Th.) (4) 123 | | | | |
| | | | B.Sc. I (Pr.) (1,3-4) (Lab 2,1) | | B.Sc. III (Hons) Pr. (3-4) | | | | 18 |
| Mr. Anil Kumar | | B.Sc. III Th. (6) | | B.Sc. III (Th.) (1-3) | | B.Sc. I (Th.) (28 (2-6) 127 | | | |
| | | | | B.Sc. I (Pr.) (3,6) (Lab 2,1) | | B.Sc. III (Pr.) (1-4) (Lab 3) | | | 18 |
| Ms. Sarvpreet Kaur | B.Sc. II Pr. (3,4-6) (Lab 3,2) | | B.Sc. II (Th.) (4-6) 123 | | B.Sc. II (Th.) (3) 127 (1-2) 128 | | | | |
| | | B.Sc. Hons. II (1-2) | | B.Sc. I (Pr.) (1-2) | | | | | 18 |
| Ms. Geetika Sood | B.Sc. I Th. (1-2) | B.Sc. III (Th.) (3-6) 123 | | | B.Sc. III Pr. (1,2,5-6) Lab. 1 | | | | |
| | | | | | B.Sc. III (Hons) (3-4) | | | | 20 |
| Mandeep Kaur | B.Sc. Hons (Th) (2) | | B.Sc. II Th (4-6) | | | | | | |
| | | B.Sc. II Pr (1-6) Lab (2,3) | | | B.Sc. II Th. (1-3) | | | | 20 |
| Resource Person I | | | | | B.Sc. III Pr. (3-4) | | | | |
| | | B.Sc. I Pr. (3-5) | | | | | | | 12 |
| Resource Person II | B.Sc. I Th. (7) | | | | | | | | |
| | | | | B.Sc. I Pr. (2-4,5,6) | | B.Sc. I Th (4-4) | | | 14 |
| Resource Person III | B.Sc. I (Th.) (3) 128 | B.Sc. III Th (3,6) | | | | B.Sc. I Th. (4) | | | |
| | | B.Sc. II Pr. (1-2) | | | | | | | 12 |
| Resource Person IV | | | B.Sc. II Th. (4) | | B.Sc. III Pr. (5-6) | | | | |
| | | B.Sc. II Pr (1-2) | | B.Sc. I Pr. (1) | | B.Sc. I Th (3,6) | | | 13 |

Date: 27/11/17

SESSION: 2018-19

Post Graduate Govt. College For Girls, Sector-11, Chandigarh

Time Table Of Physics Department 2018-19

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Total |
|-------------------|-------------------------------------|-----------------------|-----------------------|-------------|---|-----------------------|-----------|---|-------|
| | 09.00-10.00 | 10.00-11.00 | 11.00-11.45 | 11.45-12.40 | 12.40-1.35 | 1.35-2.30 | 2.30-3.25 | | |
| Dr. Anju Sharma | B.Sc. I (Th.) (4-6) | B.Sc. II (Hons) (1-2) | B.Sc. I (Pr.) (1-6) | | B.Sc. I (Th.) (3) | B.Sc. I (Th.) (3) | | | |
| | | | | | | | | | 18 |
| Dr. Anil Kumar | B.Sc. III (Th.) (3) | | B.Sc. III (Th.) (4-6) | | B.Sc. III (Th.) (4-6) | B.Sc. III (Th.) (1-2) | | | |
| | | | | | | | | | 18 |
| Dr. Sarpreet Kaur | B.Sc. III Pr. (1-6) (Lab. 12) | B.Sc. II (Th.) (3) | B.Sc. I (Pr.) (1-2) | | B.Sc. II (Th.) (4-6) B.Sc. III (Hons) (1-2) | B.Sc. III (Pr.) (3-6) | | | |
| | | | | | | | | | 18 |
| Dr. Gopika Sood | B.Sc. III Hons. (5-6) (zero period) | B.Sc. III (Th.) (1-3) | | | B.Sc. III (Th.) (4-6) | B.Sc. III Pr. (1-6) | | | |
| | | | | | | | | | 20 |
| Dr. Mandeep Kaur | B.Sc. I (Th.) (4-6) | B.Sc. II (Hons) (5-6) | B.Sc. II (Th.) (1-2) | | | B.Sc. I (Th.) (3) | | | |
| | B.Sc. II Pr. (1-2) | | B.Sc. I Pr. (3-6) | | | | | | 20 |
| R1 | | B.Sc. II (Th.) (1-2) | | | B.Sc. II (Th.) (4-6) | | | | |
| | B.Sc. II Pr. (1-4) | | | | | | | | 14 |
| R2 | | B.Sc. III (Th.) (1-3) | | | B.Sc. II (Th.) (4) | B.Sc. I (Th.) (1-2) | | | |
| | B.Sc. II Pr. (3-6) | | | | | | | | 14 |
| R3 | B.Sc. III (Th.) (3) | | B.Sc. III (Th.) (4) | | | | | | |
| | B.Sc. II Pr. (5-6) | | | | B.Sc. II (Th.) (5-6) B.Sc. I (Th.) (1-2) | | | | 14 |
| R4 | B.Sc. I (Th.) (4-6) | B.Sc. III (Th.) (1-2) | | | B.Sc. III Pr. (3-4) | | | | |
| | | | | | | B.Sc. I (Th.) (3) | | | 14 |
| R5 | | B.Sc. III (Th.) (1-2) | B.Sc. I Pr. (3-4) | | B.Sc. III Pr. (1-2) | | | | |
| | | | | | B.Sc. III (Th.) (5-6) B.Sc. I (Th.) (1-2) | | | | 12 |

Sharma
14/8/18

SESSION: 2019-20

Post Graduate Govt. College for Girls, Sector-11, Chandigarh

Time Table of Physics Department Even Semester 2019-20

| Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Total |
|--------------------|-----------------------|---|--------------------------------|--------------------------------|--|---|-----------------|-----------|-------|
| | 9.00-9.45 | 9.45-10.30 | 10.30-11.15 | 11.15-12.00 | 12.00-12.45 | 12.45-1.30 | 1.30-2.15 | 2.15-3.00 | |
| Dr. Anju Sharma | | | BSc I (Pr.) (1,2,5,6) L1 | BSc I (Pr.) (1,2,5,6) L1 | B.Sc.III Pr (3,4) L1 | B.Sc.III Pr (3,4) L1 | BSc III Hons | | 20 |
| | | | MSc Th (3,4) | | Bsc I Th (1,2,5,6) 123 (1,2) 127 (5,6) | | | | |
| Dr. Sarvpreet Kaur | | Msc Th (5,6) | BSc I Pr (5,6) L2 | BSc I Pr (5,6) L2 | MSc Pr (5) | BSc II Th (1-4) 127 (1,2) 123 (3,4) | BSc II Hons | | 23 |
| | BSc II Pr (1-4) L1 | BSc II Pr (1-4) L1 | | | | MSc Pr (5) | | | |
| Ms. Dipti Munjal | MSc Th (1,2) | BSc III Th (1,2,5,6) 127 (1,2) 123 (5,6) | BSc I Pr (3,4) L1 | BSc I Pr (3,4) L1 | MSc Th (5) | BSc II Th (3-6) 127 (3,4) 123 (5,6) | MSc Th (6) | | 24 |
| | BSc II Pr (3,4) L2 | | | | | | | | |
| Dr. Gopika Sood | MSc Th (3,4) | MSc Th (1,2) | MSc Pr (2) | MSc Pr (2) | MSc Pr (2) | BSc II Th (1,2) 123 | BSc III Hons | | 23 |
| | | BSc III Th (3-6) 123 (3,4) 127 (5,6) | | | | | | | |

| Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Total |
|---------------------|------------------------------|--|----------------------|----------------------|---|--|-------------|--------------|-------|
| | 9.00-9.45 | 9.45-10.30 | 10.30-11.15 | 11.15-12.00 | 12.00-12.45 | 12.45-1.30 | 1.30-2.15 | 2.15-3.00 | |
| Dr. Mandeep Kaur | BSc II Pr (1,2,5,6) L2 | BSc II Pr (1,2,5,6) L2 | BSc I Pr (1-4) L2 | BSc I Pr (1-4) L2 | BSc I Th (1-4) 127 (1,2) 123 (3,4) | MSc Th (6) | BSc II Hons | | 26 |
| | | MSc Th (3,4) | | | | | | | |
| Dr. Anterpreet Kaur | BSc II Pr (1-6) L2 | BSc II Pr (1-6) L2 | BSc I Pr (3-6) L2 | BSc I Pr (3-6) L2 | BSc I Th (3-6) 127 (3,4) 123 (5,6) | MSc Th (1,2) | | | 28 |
| | | | | | | BSc II Th (5,6) 127 | | | |
| Dr. Gaganpreet | BSc II Pr (5,6) L1 | BSc III Th (1-4) 123 (1,2) 127 (3,4) | BSc I Pr (1,2) L1 | BSc I Pr (1,2) L1 | BSc III Pr (1,2,5,6) L2 (1,2) L1 (5,6) | BSc III Pr (1,2,5,6) L2 (1,2) L1 (5,6) | | MSc Th (3,4) | 27 |
| | | BSc II Pr (5,6) L1 | | | | | | | |

SESSION: 2020-21

Post Graduate Govt. College for Girls, Sector-11, Chandigarh

Time Table of Physics Department

Odd Semester 2020-21

| | I (9:30-10:15) | II (10:15-11:00) | III (11:00-11:45) | IV (11:45-12:30) | V (12:30-1:15) | VI (1:15-2:00) | VII (2:00-2:45) |
|------|-----------------------|--|------------------------|--------------------------------------|---------------------------------------|--|---------------------|
| A.S. | | | M.Sc. I (1,2,3,4) | B.Sc. I Pract (1) | B.Sc. I (5,6) | B.Sc. II (3,4,5,6) B.Sc. III Pract. (1) | |
| S.K. | B.Sc. II Pract (4) | M.Sc. I (3,4) | M.Sc. I (5,6) | M.Sc. II (2) | B.Sc. I (3,4) M.Sc. I Pract. (5) | B.Sc. II (1,2) M.Sc. II (5) | B.Sc. (II) H (3,4) |
| D.M. | | B.Sc. II (4,5) B.Sc. III (1,2) | M.Sc. II Pract. (6) | M.Sc. I (1,2,3,4) M.Sc. I (5,6) | M.Sc. I (5,6) | | B.Sc. (III) H (3,4) |
| A.K. | M.Sc. I (1,2,3,4) | | M.Sc. II (1,2) | M.Sc. II (1,5) B.Sc. I Pract. (2) | B.Sc. I (1,2) M.Sc. II (3,4,5,6) | B.Sc. (III) H (3) | |
| G.P. | | B.Sc. III (3,4) B.Sc. III (5,6) M.Sc. II (1) | | M.Sc. II (3,4) | M.Sc. II (1,2) B.Sc. III Pract (5) | M.Sc. II (1,2) M.Sc. II (3,4) M.Sc. II (6) | B.Sc. (III) H (5) |
| G.S. | - | - | - | On Medical leave | - | - | - |
| M.K. | - | - | - | On Maternity leave | - | - | - |

A.S. - Anju Sharma, S.K. - Saravpreet Kaur, D.M. - Dipti Munjal, M.K. - Mandeep Kaur, A.K. - Anterpreet Kaur, G.P. - Gaganpreet,
G.S. - Gopika Sood

Department of Physics (Even Semester 2020-21)

Post Graduate Government College for Girls, Sec-11, Chandigarh

| | I (9:30-10:15) | II (10:15-11:00) | III (11:00-11:45) | IV (11:45-12:30) | V (12:30-1:15) | VI (1:15-2:00) | VII (2:00-2:45) |
|------|-------------------|--|----------------------|-------------------------------------|--|---|---------------------------------|
| A.S. | | | M.Sc. I (1,2,3,4) | | B.Sc. I (3,4,5,6) B.Sc. III Pract (1) | B.Sc. II (1,2,3,4) B.Sc. III H (5,6) | |
| S.K. | | M.Sc. II (3,4) M.Sc. I (5,6) | M.Sc. II (1,2) | | B.Sc. I (1,2,3,4) M.Sc. I Pract (5) | B.Sc. II (1,2,5,6) | B.Sc. II H (3,4) |
| D.M. | | B.Sc. III (1,2,3,4,5,6) | | M.Sc. I (1,2) | M.Sc. I (1,2) M.Sc. II (5,6) | M.Sc. II Pract (2) B.Sc. III (3,4) M.Sc. II (5,6) | |
| M.K. | | M.Sc. I (1,2) B.Sc. II Pract (3) | M.Sc. II (3,4,5,6) | M.Sc. II (3,4,5,6) | | B.Sc. II (3,4,5,6) | B.Sc. II H (1,2) |
| A.K. | | B.Sc. III (1,2,3,4) | M.Sc. I (5,6) | M.Sc. I (5,6) B.Sc. I Pract. (2) | B.Sc. I (1,2,5,6) | M.Sc. I (3,4) M.Sc. II (3,4) | M.Sc. I (3,4) M.Sc. II (3,4) |

A.S. - Prof. Anju Sharma
S.K. - Dr. Sarvpreet Kaur
D.M. - Ms. Dipti Munjal
M.K. - Dr. Mandeep Kaur
A.K. - Dr. Anterpreet Kaur

SESSION: 2021-22

Department of Physics (Odd Semester 2021-22) Post Graduate Government College for Girls, Sec-11, Chandigarh

| | I (9:00-9:45) | II (9:45-10:30) | III (10:30-11:15) | IV (11:15-12:00) | V (12:00-12:45) | VI (12:45-1:30) | VII (1:30-2:15) | VII (2:15-3:00) |
|------|-----------------------------|---|--|-----------------------------|---|---|---|--------------------|
| A.S. | | | M.Sc. I Th (3,4) B.Sc. I Pract (1,2,5,6) | B.Sc. I Pract (1,2,5,6) | B.Sc. I Th (1,2) B.Sc. III Pract (5) | M.Sc. I Th (1,2) B.Sc. II Th (3,4) B.Sc. III Pract (5) | | |
| S.K. | B.Sc. II Pract (1,2,3,4) | B.Sc. II Pract (1,2,3,4) | M.Sc. I Th (1,2) | M.Sc. I Th (5,6) | B.Sc. I Th (3,4) M.Sc. I Pract (6) | B.Sc. II Th (1,2) M.Sc. I Pract (6) | M.Sc. I Pract (6) | B.Sc. II H (3,4) |
| D.M. | | B.Sc. III Th (3,4) M.Sc. I Th (5,6) | M.Sc. I Th (5,6) | M.Sc. II Th (1,2,3,4) | B.Sc. III Pract (1,2,5,6) M.Sc. II Pract (4) | M.Sc. II Pract (4) B.Sc. III Pract (1,2,5,6) | M.Sc. II Pract (4) | B.Sc. III H (5,6) |
| M.K. | B.Sc. II Pract (3,4,5,6) | B.Sc. II Pract (3,4,5,6) | M.Sc. II Th (3,4,5,6) | M.Sc. I Th (1,2,3,4) | M.Sc. I Pr (1) | B.Sc. II Th (5,6) M.Sc. I Pr (1) | M.Sc. I Pr (1) | B.Sc. II H (1,2) |
| A.K. | | B.Sc. III Th (1,2) M.Sc. II Th (3,4,5,6) | B.Sc. I Pract (1,2,3,4) | B.Sc. I Pract. (1,2,3,4) | B.Sc. I Th (5,6) M.Sc. II Pr (3) | M.Sc. II Pr (3) | M.Sc. II Pr (3) M.Sc. I Th (1,2) | M.Sc. I Th (1,2) |
| G.P. | M.Sc. II Th (1,2,5,6) | M.Sc. II Th (1,2) B.Sc. III Th (5,6) | | M.Sc. II Th (5,6) | M.Sc. II Pract (1) B.Sc. III Pract (2,3,4) M.Sc. I Pract (5) | M.Sc. II Pract (1) B.Sc. III Pract (2,3,4) M.Sc. I Pract (5) | M.Sc. II Pract (1) M.Sc. I Pract (5) | B.Sc. III H (5,6) |

A.S. - Prof. Anju Sharma, **S.K.** - Dr. Sarvypreet Kaur, **D.M.** - Ms. Dipiti Munjal, **M.K.** - Dr. Mandeep Kaur, **A.K.** - Dr. Anterpreet Kaur,
G.K. - Gaganpreet Kaur

Department of Physics (Even Semester 2021-22)
Post Graduate Government College for Girls, Sec-11, Chandigarh

| | I (9:00-9:45) | II (9:45-10:30) | III (10:30-11:15) | IV (11:15-12:00) | V (12:00-12:45) | VI (12:45-1:30) | VII (1:30-2:15) | VIII (2:15-3:00) |
|------|--|--|--|---|---|--|---|---------------------|
| A.S. | | | B.Sc. I Pr. (1,3,5,6) M.Sc. II Prj. (4) | B.Sc. I Pr. (1,3,5,6) | M.Sc. I Th. (1,2) B.Sc. I Th. (3,4) Room No 123 B.Sc. I Th. (5,6) Room No 127 | B.Sc. II Th. (1,2) Room No 123 B.Sc. II Th. (5,6) Room No 127 | M.Sc. II Prj. (5) | |
| S.K. | B.Sc. II Pr. (1,5) | B.Sc. II Pr. (1,5) | M.Sc. I Th. (3) B.Sc. I Pr. (2,4) | M.Sc. I Th. (5,6) B.Sc. I Pr. (2,4) | M.Sc. II Prj. (2) M.Sc. I Th. (4) M.Sc. I Pr. (6) | B.Sc. II Th. (1,2) Room No 127 B.Sc. II Th. (3,4) Room No 123 M.Sc. I Pr. (6) M.Sc. II Prj. (5) | B.Sc. II H (3,5) M.Sc. I Pr. (6) | |
| D.M. | | B.Sc. III Th. (3,4) Room No 123 B.Sc. III Th. (5,6) Room No 127 M.Sc. II Prj. (2) | M.Sc. I Th. (2) M.Sc. II Th. (1) | M.Sc. I Th. (2,3,4) M.Sc. II Th. (5) | B.Sc. III Pr. (1,2,3,6) M.Sc. II Pr. (4) | B.Sc. III Pr. (1,2,3,6) M.Sc. II Prj. (5) M.Sc. II Pr. (4) | B.Sc. II H (6) M.Sc. II Pr. (4) | |
| G.S. | B.Sc. II Pr. (1,2) M.Sc. II Th. (5,6) | B.Sc. II Pr. (1,2) B.Sc. III Th. (3,4) Room No 127 M.Sc. II Prj. (5) | B.Sc. I Pr. (3) M.Sc. II Prj (4) | B.Sc. I Pr. (3) M.Sc. II Th. (6) | B.Sc. I Th. (1,2) Room No 123 B.Sc. I Th. (3,4) Room No 127 M.Sc. I Pr. (5) B.Sc. III (H) Pr (6) | M.Sc. II Th. (2) M.Sc. I Pr. (5) B.Sc. III (H) Pr (6) | M.Sc. I Pr. (5) B.Sc. III (H) (1,2) | |
| M.K. | B.Sc. II Pr. (3,4,5,6) | B.Sc. II Pr. (3,4,5,6) M.Sc. I Pr. (1) | M.Sc. II Th. (2,5,6) M.Sc. I Pr. (1) | M.Sc. II Th. (2,3,4) M.Sc. I Pr. (1) | B.Sc. III Pr. (1) M.Sc. II Prj. (5) | B.Sc. III Pr. (1) B.Sc. II Th. (3,4) Room No 127 B.Sc. II Th. (5,6) Room No 123 | B.Sc. II H (1) M.Sc. II Prj. (6) | |
| A.K. | | B.Sc. III Th (1,2) Room No 123 M.Sc. I Th. (3,4,5,6) | B.Sc. I Pr. (4,5,6) | B.Sc. I Pr. (4,5,6) | B.Sc. I Th. (1,2) Room No 127 B.Sc. I Th. (5,6) Room No 123 M.Sc. II Pr. (3) | M.Sc. I Th. (4) M.Sc. II Pr. (3) M.Sc. II Prj. (5) Room No 123 | M.Sc. I Th. (1,2,4) M.Sc. II Pr. (3) M.Sc. II Prj. (6) | |
| G.P. | B.Sc. II Pr. (3,4) | B.Sc. II Pr. (3,4) B.Sc. III Th. (1,2) Room No 127 B.Sc. III Th. (5,6) Room No 123 | M.Sc. II Prj. (3) M.Sc. I Th. (5) | M.Sc. II Th. (1) | M.Sc. II Pr. (1) B.Sc. III Pr. (3,4,5) M.Sc. II Th. (6) | M.Sc. II Pr. (1) B.Sc. III Pr. (3,4,5) M.Sc. II Th. (6) | M.Sc. II Pr. (1) M.Sc. II Th. (2) M.Sc. I Th. (3) M.Sc. II Prj (5) | |

A.S. - Prof. Anju Sharma,

S.K. - Dr. Sarvpreet Kaur, D.M. - Ms. Dipati Munjal, G.S. - Dr. Gopika Sood, M.K. - Dr. Manideep Kaur, A.K. - Dr. Anterpreet Kaur,

G.P. - Dr. Gagandeep