

Faculty Achievements, Department of Physics (2024-25)

Prof. Rachana Kumar	Convener, Anti Ragging Committee
	Member, CCL Committee
	Deputy Superintendent (Regular Exams) 2025-26 Kalindi college
	Co Convener for Humanities- Central Admission Committee
	Co-Convener-National Seminar
	Co-Convener- Rural Health sensitization Workshop
	Co-Convener-National Webinar Series Part I,II
	Convener- Community Outreach Programme
	Resource person for Internship programme 'NANOEXPLORE' in June 2025
	Convener-Inter-College student's Competitions
	Member, CCL Committee

Prof. Pushpa Bindal

Convener/Co-convener/Coordinator in any staff council committee

S.NO.	Name	Designation	Committee Name
1.	Prof. Pushpa Bindal	Convener	Anti-Tobacco Committee
2.	Prof. Pushpa Bindal	Convener	Central Admission Committee
3	Prof. Pushpa Bindal	Nodal Officer	Central Cluster
4	Prof. Pushpa Bindal	Convener	NEP Implementation Committee
5	Prof. Pushpa Bindal	Deputy Superintendent	Central Examination Committee
6	Prof. Pushpa Bindal	Science Representative	Library Committee

Faculty achievement

1. Convenor of National seminar on “Contribution of contemporary Science advancement of society” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 21.10.24 in Kalindi College
2. Convenor of webinar series part I entitled “ Role of women scientists towards science and society” under National academy of sciences India Delhi chapter: Science and society programme (Project DC2) on 25.1.25
3. Convenor of webinar series part II entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society programme (Project DC2) on 7.3.25
4. Convenor of rural workshop “ Women and children health and hygiene awareness” under National academy of sciences India Delhi chapter: Science and society programme (Project DC2) on 10.2.25 in Chandrawal village, Delhi

5. Convener of National E-Poster Competition on **"Tobacco Free Tomorrow: Design the Future"** on October 26, 2024.
6. Convener of Inter-College Workshop on "Indoor Air Pollution and Smoking" organized on 25th February 2025.
7. Educational visit to Nehru Planetarium with students and colleagues on 18th Feb 2025.

Faculty development program

1. Attended One week online International FDP on "Advanced materials and Characterization techniques" organized by Indian Association of Physics Teachers from Feb. 6- Feb. 12, 2025
2. Attended online Faculty development program on " NEP orientation and sensitization " organized by Malaviya mission teacher training program (MMTTP) from March 3- March 11, 2025

Work Shop Attended

1. Attended JSF Hands-on Workshop, **"Mastering MATLAB - 2024,"** Date 28th July, 2024, **organised by** Janardan Singh Foundation, Punjab.
2. Attended one day online workshop "Pioneering women in quantum Science: A visionary Talk, organized by Department of Physics and Electronics and Hansraj College on 8th March, 2025
3. Attended "Power of nutrition in combating lifestyle diseases" organized by Indraprastha Shakti on 30th September 2024.

Research Guidance

1. Completed Multidisciplinary research project entitled

"Indian Contribution To Science From Indus Valley Civilization to Vedic Ages: A Historical Perspective"

PI: Prof. Seema Gupta, Prof. Pushpa Bindal, Prof. Rachana Kumar, Dr. Nutan Pandey

Research project entitled **"A Comprehensive Study of Evolution and Modal Characteristics of Single Mode Optical Fibers (Ongoing).**

PI: Prof. Pushpa Bindal

2. Principal Investigator for project under NASI Science and society program entitled " Exposition of Science advancements with emphasis on role of

contemporary Indian women scientists and sensitization in rural areas ” (Project DC2) funded by National academy of sciences India Delhi chapter.
PI: Prof. Pushpa Bindal, Co-PI: Prof. Rachana Kumar, Prof. Seema Gupta

Research Person

Name of Faculty	Resource Person for	Title of Delivered Session	Delivered on	Organized by
Prof. Pushpa Bindal	National Science Day	Sciences: Illuminating Human Lives	28-02-2025	C.V. Raman Club, Gautam Buddha University
Prof. Pushpa Bindal	NAEST-24	-	July-Aug 2024	National Anveshika Network of india

Personal Achievement, Prof. Sudha Gulati, Department of Physics, 2024-25

Convener of Research Project Fund Allocation Committee

Convener of Criteria II

Member of Student Grievance Redressal cell

Co convener of Central admission committee for Commerce courses of college, 2024-25

Deputy Superintendent of Central examination committee of college for theory exams, 2024-25

Teacher's representative in Governing Body (under the category of more than 10 years of service) of the Kalindi college w.e.f 5 Jan. 2024 for one year.

Internal examiner for practical examination of B. Sc. PS Ist year (Sem I), B. Sc H Phy II year (Sem III)

External examiner for practical exam at St. Stefan's College

Mentor of students of PS I year

Member of IQAC of Vivekananda College, University of Delhi

Promoted as Professor in the Department of Physics, Kalindi College (University of Delhi) under Career Advancement Scheme (CAS) 2018

Principal Investigator in research project "Study of structural, optical and magnetic properties of undoped and doped MnFe_2O_4 nanoparticles".

Principal Investigator in Interdisciplinary research project of "Group Theory and Cryptography: A Comprehensive Study".

Attended FDP Online Training Programme on "NEP Orientation and Sensitization Programme" organized by Kalindi College in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre, Hansraj College, University of Delhi from 03.03.25 to 11.03.25.

An interview published in *Macrocosm 2024-25*, the magazine of the Department of Physics, Kalindi College."

Attended National seminar on topic : "Sustainable Startup: Integrating Tradition Knowledge with Innovation" organized by IBSD Committee in collaboration with IQAC Kalindi College, University of Delhi

Resource Person for evaluation of reports on experiments in the prelims round for NAEST, organized by NANI and IAPT in 2024.

Attended National workshop on "Searching for Heaven" organized by Physithon Society Department of Physics, Kalindi College, University of Delhi on 14.10.2024.

Attended webinar series part 1 entitled “Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program on 25.1.25

Attended Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-tobacco committee, Kalindi college on 25th Feb.2025.

Prof. Seema Gupta

Convener/Co-convener/Coordinator in any staff council committee

S.NO.	Name	Designation	Committee Name
1.	Prof. Seema Gupta	Convener	Budget allocation Committee
2.	Prof. Seema Gupta	Member	Plant incubation center
3	Prof. Seema Gupta	Convenor	Central admission committee for arts courses of college, 2025
4	Prof. Seema Gupta	Deputy Supritendant	Central examination committee of college for theory exams, 2024-25

Faculty achievement

1. Co- Convenor of National seminar on “Contribution of contemporary Science advancement of society” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 21.10.24 in Kalindi College
2. Co- Convenor of webinar series part 1 entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 25.1.25
3. Convenor of webinar series part II entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 7.3.25
4. Co- Convenor for rural workshop “ Women and children health and hygiene awareness” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 10.2.25 in Chandrawal village, Delhi

5. Co-Convenor of Inter-college student competitions under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 9.4.25
6. Co- convenor of out reach programme in Govt. Girls sr. sec school, West Patel Nagaron “ impact of science on society” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 16.4.25

Faculty development program

1. Attended One week online International FDP on “Advanced materials and Characterization techniques” organized by Indian Association of Physics Teachers from Feb. 6- Feb. 6, 2025
2. Attended online Faculty development program on “ NEP orientation and sensitization “ organized by Malaviya mission teacher training program (MMTTP) from March 3- March 11, 2025

Work Shop Attended

1. Attended Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-tobacco committee, Kalindi college on 25th Feb.2025
2. Attended one day on line workshop “Pioneering women in quantum Science: A visionary Talk, organized by Department of Physics and Electronics and Hansraj College on 8th March, 2025
3. Attended Hands on workshop : Mastering MATLAB-2024” Organized by Janardan Singh Foundation and AIP on 28th July, 2024
4. Attended an educational tour to Nehru Planetarium on 18th Feb, 2025
5. Attended a workshop “Physics in Action, Experiments for curious minds” organized by department of Physics, Kalindi college on 4.3.25

Research Guidance

1. Completed Multidisciplinary research project entitled

“INDIAN CONTRIBUTION TO SCIENCE FROM INDUS VALLEY CIVILIZATION TO VEDIC AGES: A HISTORICAL PERSPECTIVE”

PI: Prof. Seema Gupta, Prof. Rachana Kumar, Prof. Pushpa Bindal, Dr. Nutan Pandey-16 students

2. Research project entitled “**Analysis of Pseudo first and second order kinetic models for adsorption of hazardous gases on Carbon Nano Tube sensors. (Ongoing)**”

PI: Prof. Rachana Kumar, Prof. Seema Gupta, 6 students

3. Co-Convenor for project under NASI Science and society program entitled “Exposition of Science advancements with emphasis on role of contemporary Indian women scientists and sensitization in rural areas ” (Project DC2) funded by National academy of sciences India Delhi chapter.
Convenor Prof. Pushpa Bindal, Co-Convenors : Prof. Rachana Kumar, Prof. Seema Gupta, 6 students

Personal Achievements Prof. Monika Bassi, Department of Physics (2024-2025)

Convener/Co-convener/Coordinator in any staff council committee

S.NO.	Name	Designation	Committee Name
1.	Prof. Monika Bassi	Co-Convenor	Central Admission Committee for the supervision of Commerce Courses.
2.	Prof. Monika Bassi	Deputy Superintendent	Central Examination Committee of Kalindi College for University Theory Exams 2024-2025.
3.	Prof. Monika Bassi	Co-Convener	Anti-Tobacco Committee
4.	Prof. Monika Bassi	Member	Committee for Social Responsibility, Extension Activities and Community Outreach Programme.

Research Supervision

- **Principal Investigator** of ongoing Undergraduate Physics Research Project entitled "Achieving High Fidelity in Low-Signal Rectification: Half-Wave and Full-Wave Precision Rectifiers with Op-Amps"
- **Principal Investigator** of ongoing Undergraduate Interdisciplinary Research Project entitled "Water Quality Assessment of the Yamuna River: Identifying Pollution Hotspots and Mitigation Strategies"
- As **Principal Investigator** successfully completed the Undergraduate Research Project "Analysis of Air Quality in Delhi: Examining the effects of Urbanization on Particulate Matter Concentration".

Faculty Achievements

1. Convener National E-poster competition on the theme "Tobacco Free Tomorrow: Design the Future" organized by Anti-Tobacco Committee on 26th October, 2024.
2. Convener, Inter-college Workshop on "Indoor Air Pollution and Smoking" held on 25.02.2025 organized by Anti-Tobacco Committee.
3. Successfully completed National Level Faculty Development Program (FDP) on "**Programming using Python**" organized by Hindu College in collaboration with Spoken Tutorial, IIT Bombay from July 22, 2024 to August 10, 2024 and

successfully passed the FDP exam conducted by ST, IIT Bombay on August 10, 2024.

4. Editor of Conference Proceedings of **National Conference** on “Sustainable Startups: Integrating Traditional Knowledge with Innovation” held on 17th February 2025, organised by Institute of Bioresources and Sustainable Development (IBSD) Committee, Kalindi College.

Research publications

1. Bassi, M., Yadav, S., Agrawal, A., Mehra, V., Ahmad, T., Sharma, M., & Kuanr, B. K. (2024). Room temperature ferromagnetism in Co and Ni co-doped ZnO particles: validation through density functional theory. *Applied Physics A*, 130(11), 1-18, November 2024. <https://link.springer.com/article/10.1007/s00339-024-08018-0>

Resource Person, in the following format:

Name of Faculty	Resource Person for (Refresher course, Orientation course, Seminar, Workshop, Conference name)	Title of Delivered Session	Delivered on	Organized by
Prof. Monika Bassi	Resource person for the National Conference on “Sustainable Startups: Integrating Traditional Knowledge with Innovation” held on 17th February 2025.	Session Chair	17.02.2025	IBSD Committee, Kalindi College
Prof. Monika Bassi	Paper Presentation in the International Conference on “Geospatial Innovations for Biodiversity Conservation, Climate Resilience and Sustainable Development Across Multi-Domain Ecosystems”	Analysis of Air Quality in Delhi: Examining the Effects of Urbanisation on Particulate Matter Concentration	April 9, 2025	Department of Geography, Kalindi College in collaboration with Centre for Himalayan Studies, University of Delhi

Dr Aravind Kumar

S.N.	Name	Designation	Years	Committee Name
1	Dr. Aravind kumar	Teacher In-Charge	2025-26	Department of Physics Kalindi college
2	Dr. Aravind kumar	Deputy Superintendent (SEC/VAC/AEC Exams Evaluation)	2025-26	Kalindi college
3	Dr. Aravind kumar	Deputy Superintendent (Regular Sem Exams)	2025-26	Kalindi college
4	Dr. Aravind kumar	Convener(Head Examiner)	2025	Numerical Analysis (SEC Paper)
5	Dr. Aravind kumar	Convener	2024-25	Institute of Bio- resources and sustainable Development (IBSD) Center.
6	Dr. Aravind kumar	Member	2024-25	Dr B.R Ambedkar Study Center.
7	Dr. Aravind kumar	Convener	2024-25	Central admission committee for B.Sc(H) Physics courses of college, 2025
8	Dr. Aravind kumar	Deputy Superintendent	2024-25	Central examination committee of college for theory exams, 2024-25
9	Dr. Aravind Kumar	Member	2024	Criteria 2
10	Dr. Aravind Kumar	Member	2024-24	Tent and Shamiyana

Faculty achievement

1. Convenor, National level E-Poster making competition cantered on the theme **“Green Business: Profit with Purpose.”** organized by IBSD Committee, Kalindi College, University of Delhi on dated 05-11-2024.
2. Convenor, National level E-Paper Presentation competition centered on the theme **" Green is the new Gold: Invest in sustainability"** organized by IBSD Committee, Kalindi College, University of Delhi on dated 09-11-2024.
3. Convenor, National seminar on topic: “Sustainable Startup: Integrating Tradition Knowledge with Innovation” organized by IBSD Committee in collaboration with IQAC Kalindi College, University of Delhi on dated 17-02-2025.

Faculty Induction Program

1. Four Week Faculty Induction/Orientation Programme for faculty in University/Colleges/ Institutes of higher Education, Teaching Learning center Ramanujan college university of Delhi under the aegis Ministry of education Malaviya Mission Teacher Training Programme from 27.03.2024 to 23.04.2024.
2. Attended online training programme on “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) University Grants Commission (UGC) organized by Mahatma Hansraj Malaviya Mission Teacher training centre (MH-MMTTC), Hansraj College, University of delhi in collaboration with Kalindi college, University of delhi, from 03.03.24 to 11.03.24.

Refresher Course

1. Two Week Refresher Course “Life and Science, Teaching Learning center Ramanujan college university of Delhi under the aegis Ministry of education Malaviya Mission Teacher Training Programme from 28.02.2024 to 13.03.2024.
2. Two Week Interdisciplinary Refresher course” Advanced Research Methodology Teaching Learning center Ramanujan college university of Delhi under the aegis Ministry of education Malaviya Mission Teacher Training Programme from 26.04.2024 to 09.05.2024.

Orientation & Sensitization Programme/ FDP

- 1 NEP 2020 Orientation & Sensitization Programme Maharshi Dayanand Saraswayi university Ajmer UGC- Malaviya Mission Teacher form 01.07.2024 to 10.07.2024.
- 2 Two-week Faculty Development Program(FDP) in Programming Using Python, Hindu College University of Delhi in collaboration with Spoken-Tutorial IIT Bombay from 22.07.2024 to 02.08.2024.
- 3 7 Days faculty Development Program “Practical Use of official Language Hindi, Kalindi college university of Delhi

Work Shop Attended

1. Unity of India and languages under the philosophy of Jagad Guru Shree Shankaracharya, Indian Language committee education Ministry Govt of India on 20.03.2024.
2. Inter College Events” Scivolution” On The Occasion of “National Science Day” in Collaboration Of Indraprastha Shakti- A National Movement for Women, organized by Physithon- The Physics society Depart of Physics Kalindi College 28.02.2024.
3. Attended a workshop “Physics in Action, Experiments for curious minds” organized by department of Physics, Kalindi college on 4.3.2025.
4. Webinar To commemorate the death Anniversary of AOJ Abdul Kalam on the topic “Creating a Liveable Planet Earth, Dara Rao Singh Rathore Mem. Degree College Gularia Budaun on 27.07.2024.
5. Physithon- The Physics society celebrates National Science Day Scivolution Viksit Bharat@2047 in Association Indraprastha Shakti- A National Movement for Women organized by Physithon- The Physics society Depart of Physics Kalindi College on 28.02.2024.
6. Inter college workshop on Indor air pollution and smoking member of organizing committee organized by Anti-Tobacco committee, Kalindi college University of delhi on 25.02.2025.

List of Publication

1. Advanced Software Reliability Growth Modeling: Hybrid Metaheuristic Estimation under Stochastic Testing with Dependent and Time-Varying Failure Dynamics Indarpal Singh, Sanjay Kumar, Arvind Kumar, International Journal for Multidisciplinary Research (IJFMR) E-ISSN: 2582-2160, Volume 7, Issue 5, September-October 2025. Page Number-1-22. Link- <https://www.ijfmr.com/papers/2025/5/56243.pdf>.

Dr. V. Bhasker Raj

Convener/Co-convener/Coordinator in staff council committee

S. No.	Designation	Committee Name
1.	Deputy Superintendent	Central examination committee of college for theory exams
2.	Co-Convener	Central admission committee for the supervision of science courses
3	Co-Convener	Committee for Development of E-Content
4	Co-Convener	Physithon society, Department of Physics
5	Member	Creative Writing/ रचनात्मक लेखन (ECA Committee)
6	Member	Prize committee
7	Member	Attendance Committee
8	Member	AQAR (criteria 3)

Events Organized

1. Co-Convener for the Online Training Programme (FDP) on “NEP Orientation and Sensitization Programme” organized by Kalindi College in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre, Hansraj College, University of Delhi from 03.03.25 to 11.03.25.
2. Co-Convener of the Career Vartalap “A CAREER COUNSELLING SESSION WITH ALUMNI” organized by Department of Physics, Kalindi College, in collaboration with Kalindi College Alumni Association on 18.1.25.
3. Coordinator of National workshop on “Searching for Heaven” organized by Physithon Society Department of Physics, Kalindi College, University of Delhi on 14.10.2024.
4. Program Coordinator for IMC-24 Visit to Bharatmandapam by Department of Physics, Kalindi College, University of Delhi on 17.10.24.
5. Program Coordinator to Visit to CSIR-NPL for Foundation Day Celebration 2024 organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi on 01.10.2024.
6. Program Coordinator for Yuva Shakti Abhiyan, one week workshop organized by Department of Physics, Kalindi College, University of Delhi from 25.9.24 to 03.10.2024.
7. Program Coordinator in conducting a Webinar on “Understanding National Education Policy- Familiarization with NEP Course Structure” organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi under the banner of Deeksharambh on 05.9.24.
8. Programme Co-ordinator in National Science Day Astroverse “Touching lives by touching moon: India’s moon saga”, at Kalindi College (24th August 2024).
9. Co-convener of the national seminar on "Rising Stars: Exploring Futures together" on 17th May 2024 at Kalindi College.
10. Program Coordinator in National Workshop on “Quantum Mechanics Made Simple”

held on 30th September, 2024 organized by physithon society, department of physics in collaboration with the national academy of sciences, india (NASI), Delhi chapter.

11. Member, organizing committee in creative writing competition, organized by creative writing club, Kalindi College on 19th March 2025.

Faculty development Program completed

1. Faculty Development Program on Healthcare and Med Tech: Innovations, Challenges, and Future Directions at DELHI TECHNOLOGICAL UNIVERSITY from 09/12/2024 to 14/12/2024 organized by Delhi Technological University with AICTE Training and Learning (ATAL) Academy.
2. Faculty Development Program on “NEP 2020 Orientation and Sensitization Programme” under Malaviya Mission teacher training program (MM-TT) of the UGC organized by center for professional development in higher education (UGC-MMTTC), University of Delhi from 8th October to 17th October 2024.

Work Shop/Seminars Attended

1. 2-days Workshop on Advanced Materials and Sustainable Energy (WAMSE)–2024 under social service grant, SERB-DST, organized by the Department of Physics and Materials Science & Engineering (PMSE), Jaypee Institute of Information Technology, Noida, Uttar Pradesh, India during November 16-17, 2024.
2. Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-tobacco committee, Kalindi college on 25th Feb.2025.
3. Departmental Educational tour to Nehru Planetarium on 18th Feb, 2025.
4. National seminar on “Contribution of contemporary Science advancement of society” under National academy of sciences India (NASI) Delhi chapter: Science and society program (Project DC2) on 21.10.24 in Kalindi College.
5. Webinar series part 1 entitled “Role of women scientists towards science and society under National academy of sciences India (NASI) Delhi chapter: Science and society program (Project DC2) on 25.1.25

Research publications

1. Tyagi, M., & **Raj, V. B.** (2024). Analysis of interface states in Zn/p-NiO Schottky barrier diode. Journal of Materials Science Materials in Electronics, 35(22), 1498. <https://doi.org/10.1007/s10854-024-13266-0>
2. Tyagi, M., & **Raj, V. B.** (2025). One-magnon excitation in antiferromagnetically ordered NiO nanoparticles. Journal of Materials Science Materials in Electronics, 36, 1033. <https://doi.org/10.1007/s10854-025-15077-3>

Book Chapters

1. **Raj, V. B.**, Chaudhary, A., Sharma, S., & Sharma, S. (2025). Chapter 8: AI-Powered Learning Analytics and Decision-making in higher education. In Education 4.0 class to career (1st ed., pp. 110–127) published by Sahitya Sansthan.
2. Sharma S., Sharma M., Saniya, **Raj V. B.** (2025). Chapter 9: Artificial Intelligence and Machine Learning in NEP 2020. In Education 4.0 class to career (1st ed., pp. 128–147) published by Sahitya Sansthan.

Mr. Kapil Kumar

Convener/Co-convener/Coordinator/Member

S.NO.	Name	Designation	Committee Name
1.	Mr. Kapil Kumar	Co-Convener	Management Information System Committee
2.	Mr. Kapil Kumar	Member	Attendance Committee
3.	Mr. Kapil Kumar	Member	Child Care Leave Committee
4.	Mr. Kapil Kumar	Deputy Superintendent	Central examination committee of college for theory exams, 2024-25
5.	Mr. Kapil Kumar	Technical Committee Member	Prize Committee, Annual Day 2025
6.	Mr. Kapil Kumar	Co-Convenor	Admission Committee 2024-25 (Physics Department)
7.	Mr. Kapil Kumar	Co-Convenor	Website Committee, Department of Physics, Kalindi College, University of Delhi
8.	Mr. Kapil Kumar	Co-Convenor	News Letter Department of Physics, Kalindi College, University of Delhi
9.	Mr. Kapil Kumar	Member	Time-Table Uploading Committee Department of Physics, Kalindi College, University of Delhi

10.	Mr. Kapil Kumar	Member	AQAR Committee Department of Physics, Kalindi College, University of Delhi
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Faculty Achievements

1. Program **Coordinator** of National workshop on “Searching for Heaven” organized by Physithon Society Department of Physics, Kalindi College, University of Delhi on 14.10.2024.
2. Program **Coordinator** for IMC-24 Visit to Bharat mandapam by Department of Physics, Kalindi College, University of Delhi on 17.10.24.
3. Program **Coordinator** to Visit to CSIR-NPL for Foundation Day Celebration 2024 organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi on 01.10.2024.
4. Program **Coordinator** for Yuva Shakti Abhiyan, one week workshop organized by Department of Physics, Kalindi College, University of Delhi from 25.9.24 to 03.10.2024.
5. **Coordinator** in conducting a Webinar on “Understanding National Education Policy- Familiarization with NEP Course Structure” organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi under the banner of Deekshaarambh on 05.9.24.
6. **Co-Convener** for Cleaniness Committee for the National Seminar on topic: “Sustaniable Startup: Integrating Tradition Knowledge with Innovation” held on 17/02/2025 organized by IBSD Committee in collaboration with IQAC Kalindi College, University of Delhi.

Faculty development Program completed

1. Faculty Development Program on Healthcare and Med Tech: Innovations, Challenges, and Future Directions at DELHI TECHNOLOGICAL UNIVERSITY from 09/12/2024 to 14/12/2024 organized by Delhi Technological University with AICTE Training and Learning (ATAL) Academy.
2. Faculty Development Program on “NEP 2020 Orientation and Sensitization Programme” under Malaviya Mission teacher training program (MM-TT) of the UGC organized by center for professional development in higher education (UGC-MMTTC), University of Delhi from 8th October to 17th October 2024.

Work Shop/Seminars Attended

1. Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-Tobacco committee, Kalindi college on 25th Feb.2025.
2. Departmental Educational tour to Nehru Planetarium on 18th Feb, 2025.
3. National seminar on “Contribution of contemporary Science advancement of society” under National academy of sciences India (NASI) Delhi chapter: Science and society program (Project DC2) on 21.10.24 in Kalindi College.
4. Workshop on “Statistical Analysis in Physics” on 9th January 2025, 30th January 2025 and 5th March 2025 at Institution of Eminence (IoE), 5th floor, Maharishi Kanad Bhawan, University of Delhi (North Campus) organized by Department of Physics & Astrophysics, University of Delhi.
5. National Workshop on “Quantum Mechanics Made Simple”

held on 30th September, 2024 organized by physithon society, department of physics in collaboration with the national academy of sciences, india (NASI), Delhi chapter.

Faculty Acheivements for Dr. Savita Sharma, Department of Physics (2024-25)

2.1 Convener/Co-convener/Coordinator in any staff council committee

S.N O.	Name	Designation	Committee Name
1.	Dr. Savita Sharma	Deputy Superintendent	Central examination committee of college for theory exams
2.	Dr. Savita Sharma	Co-Convenor	Central admission committee, Science Courses, Kalindi College
3.	Dr. Savita Sharma	Convener	Western Group Dance (ECA Committee)
4.	Dr. Savita Sharma	Co-Convenor	Central admission committee for the supervision of science courses
5.	Dr. Savita Sharma	Co-Convenor	Management Information System (MIS) Committee
6.	Dr. Savita Sharma	Co-Convenor	Physithon society, Department of Physics
7.	Dr. Savita Sharma	Co-Convenor	Time Table Committee, Department of Physics
8.	Dr. Savita Sharma	Co-Convenor	Prize committee
9.	Dr. Savita Sharma	Member	E-Content Development Committee
10	Dr. Savita Sharma	Member	AQAR (Criteria 2)

2.3 Faculty Achievements

1. **Organizing committee Member** for the Online Faculty Development Program on “NEP Orientation and Sensitization Program” organized by Kalindi College in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre, Hansraj College, University of Delhi from 03.03.25 to 11.03.25.
2. **Convenor** of the Career Vartalap “A CAREER COUNSELLING SESSION WITH ALUMNI” organized by Department of Physics, Kalindi College, in collaboration with Kalindi College Alumni Association on 18.1.25.
3. Program **Coordinator** of National workshop on “Searching for Heaven” organized by Physithon Society Department of Physics, Kalindi College, University of Delhi on 14.10.2024.
4. Program **Coordinator** for IMC-24 Visit to Bharat mandapam by Department of Physics, Kalindi College, University of Delhi on 17.10.24.
5. Program **Coordinator** to Visit to CSIR-NPL for Foundation Day Celebration 2024 organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi on 01.10.2024.
6. Program **Coordinator** for Yuva Shakti Abhiyan, one week workshop organized by Department of Physics, Kalindi College, University of Delhi from 25.9.24 to 03.10.2024.
7. **Convenor** in conducting a Webinar on “Understanding National Education Policy- Familiarization with NEP Course Structure” organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi under the banner of Deekshaarambh on 05.9.24.
8. Programme **Coordinator** in National Science Day Astroverse “Touching lives by touching moon: India’s moon saga”, at Kalindi College (24th August 2024).
9. **Co-convenor** of the national seminar on "Rising Stars: Exploring Futures together" on 17th May 2024 at Kalindi College.
10. Program **Coordinator** in National Workshop on “Quantum Mechanics Made Simple” held on 30th September, 2024 organized by Physithon society, Department of physics in collaboration with the national academy of sciences, India (NASI), Delhi chapter.
11. Program **Coordinator** for National Seminar on “Contribution of contemporary science in advancement of society” Kalindi College organized on 21/10/2024 by Department of Physics, Kalindi College, under the aegis of The National Academy of Sciences India, (NASI) - Delhi Chapter.
12. Program **Coordinator** in National Webinar-Part I on “Role of Women Scientists towards Science and Society: A Webinar Series” under Science and Society Programme organized by Department of Physics, Kalindi College, under the aegis of The National Academy of Sciences India, (NASI) - Delhi Chapter on 25th January, 2025 organized by Department of Physics, Kalindi College, under the aegis of The National Academy of Sciences India, (NASI) - Delhi Chapter.
13. राष्ट्रीय विज्ञान अकादमी, भारत (NASI) द्वारा प्रायोजित परियोजना "विज्ञान एवं समाज कार्यक्रम का अंतर्गत (DSC2)" ग्रामीण क्षेत्रों में महिला एवं बाल स्वास्थ्य जागरूकता संगोष्ठी कार्यशाला का लिए कार्यक्रम समन्वयक at Chandrawal Village, Delhi on 10/02/2025 by Department of Physics, Kalindi College, under the aegis of The National Academy of Sciences India, (NASI) - Delhi Chapter.
14. **Convenor** for Publicity Committee for the National Seminar on topic: “Sustainable Startup: Integrating Tradition Knowledge with Innovation” held on 17/02/2025 organized by IBSD Committee in collaboration with IQAC Kalindi College, University of Delhi.

15. **Convener** in “Banging Beats: A dynamic western dance showcase”, organized by Western Group Dance committee (ECA committee), Kalindi College on 19th February 2025.

Faculty development Program completed

1. Faculty Development Program on Healthcare and Med Tech: Innovations, Challenges, and Future Directions at DELHI TECHNOLOGICAL UNIVERSITY from 09/12/2024 to 14/12/2024 organized by Delhi Technological University with AICTE Training and Learning (ATAL) Academy.
2. Faculty Development Program on “NEP 2020 Orientation and Sensitization Programme” under Malaviya Mission teacher training program (MM-TT) of the UGC organized by center for professional development in higher education (UGC-MMTTC), University of Delhi from 8th October to 17th October 2024.

Work Shop/Seminars Attended

1. 2-days Workshop on Advanced Materials and Sustainable Energy (WAMSE)–2024 under social service grant, SERB-DST, organized by the Department of Physics and Materials Science & Engineering (PMSE), Jaypee Institute of Information Technology, Noida, Uttar Pradesh, India during November 16-17, 2024.
2. Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-tobacco committee, Kalindi college on 25th Feb.2025.
3. Departmental Educational tour to Nehru Planetarium on 18th Feb, 2025.
4. National seminar on “Contribution of contemporary Science advancement of society” under National academy of sciences India (NASI) Delhi chapter: Science and society program (Project DC2) on 21.10.24 in Kalindi College.
5. Webinar series part 1 entitled “Role of women scientists towards science and society under National academy of sciences India (NASI) Delhi chapter: Science and society program (Project DC2) on 25.1.25.
6. Webinar on “Power of Nutrition in Combating Lifestyle Diseases” held on 30th September, 2024 organized by Indraprastha Shakti Delhi, Mother’s Kitchen Delhi Prant.

Research publications

Year of Publication	Title	Journal (Name of the journal. Vol. Issue ISSN)	Co-Author
1. 2025	Charge Storage Performance of Porous Activated Carbon Derived From Bamboo Stems for Symmetric	Energy Storage , 7, pp: e70178 (2025); DOI: https://doi.org/10.1002/est2.70154	Rohit Yadav, Savita Sharma , Hitesh Borkar, Kusum Kumari

	Supercapacitor Electrodes		
2. 2025	Zinc Oxide-Enhanced Porous Activated Carbon From Waste Walnut Shells for Supercapacitor Electrodes	Energy Storage , 7, pp: e70154 (2025); DOI: https://doi.org/10.1002/est2.70154	Rohit Yadav, Savita Sharma , Hitesh Borkar, Kusum Kumari
3. 2025	Role of laser energy variation on energy storage capacity of bilayer BFO/WO ₃ thin film structure	Materials Science in Semiconductor Processing , 188, pp: 109218 (2025); DOI: https://doi.org/10.1016/j.mssp.2024.109218 ISSN 1369-8001 IF: 4.2	Shiva Lamichhane, Monika Tomar, Arijit Chowdhuri and Savita Sharma

Book Chapter

1. Saxena N., **Sharma S.**, Kumar P. (2024) Book Chapter-10 - All metal oxide-based photodetectors, In Metal Oxides, Metal Oxides for Next-Generation Optoelectronic, Photonic, and Photovoltaic Applications, Elsevier, Pages 277-300, ISBN 9780323991438, <https://doi.org/10.1016/B978-0-323-99143-8.00012-2>
2. Raj, V. B., Chaudhary A., Sharma S., **Sharma S.** (2025). Chapter 8: AI-Powered Learning Analytics and Decision-making in Higher Education. In Education 4.0 Class to Career.
3. **Sharma S.**, Sharma M., Saniya, Raj, Raj V. B. (2025). Chapter 9: Artificial Intelligence and Machine Learning in NEP 2020. In Education 4.0 Class to Career.

2.4 Resource Person, in the following format:

Name of Faculty	Resource Person for (Refresher course, Orientation course, Seminar, Workshop, Conference name)	Title of Delivered Session	Delivered on	Organized by
Dr. Savita Sharma	3rd International Conference on Advanced Functional Materials and Devices (AFMD-2025)	Ferroelectric Thin films for Energy harvesting Applications	05-03-2025	Atma Ram Sanatan Dharma College, University of Delhi.
Dr. Savita Sharma	3rd International Conference on Advanced Functional Materials and Devices (AFMD-2025)	Session Chair	05-03-2025	Atma Ram Sanatan Dharma College, University of Delhi.

2.5 Paper Presentations:

1. Kumar A., **Sharma S.**, Jayasimhadri M., Puri N. K., “V₂O₅-Doped PVDF piezoelectric nanogenerators for enhanced clean and green Energy Harvesting”, in AFMD-2025 at Atma Ram Sanatan Dharma College, University of Delhi, Delhi, India on 3rd March 2025.
2. Kumar A., **Sharma S.**, Jayasimhadri M., Puri N. K., “Investigating the photocatalytic activity of V₂O₅ for efficient degradation of organic pollutants”, in CANDEE-2024 at ABV-IIITM Gwalior, Madhya Pradesh, India on 03-04 December 2024.

Ms. Pooja Devi

Convener/Co-convener/Coordinator in any staff council committee

S.N O.	Name	Designation	Committee Name
1.	Ms. Pooja Devi	Deputy Superintendent	Central examination committee of college for theory exams
2.	Ms. Pooja Devi	Member	Western Group Dance (ECA Committee)
3.	Ms. Pooja Devi	Convenor	Proctorial Board
4.	Ms. Pooja Devi	Co-Convenor	Registration Committee
5.	Ms. Pooja Devi	Member	Discipline Duty (Annual Day)
6.	Ms. Pooja Devi	Co-Convener	Garden committee
7.	Ms. Pooja Devi	Member	NSS committee
8.	Ms. Pooja Devi	Member	Institute of Bio-resources and sustainable development (IBSD) Center.
9.	Ms. Pooja Devi	Member	AQAR (Criteria IV)

Research Supervision

- **Principal Investigator** of ongoing Undergraduate Physics Research Project entitled "Achieving High Fidelity in Low-Signal Rectification: Half-Wave and Full-Wave Precision Rectifiers with Op-Amps"

Achievements

1. **Organizing committee Member** for the Online Faculty Development Program on “NEP Orientation and Sensitization Program” organized by Kalindi College in

collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre, Hansraj College, University of Delhi from 03.03.25 to 11.03.25.

2. **Organizing committee Member**, National seminar on topic: “Sustainable Startup: Integrating Tradition Knowledge with Innovation” organized by IBSD Committee in collaboration with IQAC Kalindi College, University of Delhi on dated 17-02-2025.

Work Shop/Seminars Attended

1. Attended Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-tobacco committee, Kalindi college on 25th Feb.2025.
2. Attended a webinar series part II entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 7.3.25.
3. Attended a rural workshop “ Women and children health and hygiene awareness” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 10.2.25 in Chandrawal village, Delhi.
4. Participated in webinar series part 1 entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 25.1.25
5. Participated in the Career Vartalap “A CAREER COUNSELLING SESSION WITH ALUMNI” organized by Department of Physics, Kalindi College, in collaboration with Kalindi College Alumni Association on 18.1.25.
6. Participated in National Science day celebration organised by Physithon Society on 4th March, 2025.

Dr. Varsha

Convener/Co-convener/Coordinator/Member

S.NO.	Name	Designation	Committee Name
1.	Dr. Varsha	Co-Convener	Feedback & Students Satisfaction Survey Committee for Science students
2.	Dr. Varsha	Member	ECA Committee
3.	Dr. Varsha	Member	Consultancy and Internship Committee
4.	Dr. Varsha	Co-Convenor	Central admission committee for arts courses of college, 2025
5.	Dr. Varsha	Deputy Superintendent	Central examination committee of college for theory exams, 2024-25
6.	Dr. Varsha	Technical Committee Member	Prize Committee, Annual Day 2025
7.	Dr. Varsha	Co-Convenor	Admission Committee 2024-25
8.	Dr. Varsha	Convenor	Website Committee, Department of Physics, Kalindi College, University of Delhi
9.	Dr. Varsha	Convenor	Wall Magazine Committee Department of Physics, Kalindi College, University of Delhi

10.	Dr. Varsha	Member	Time-Table Uploading Committee Department of Physics, Kalindi College, University of Delhi
11.	Dr. Varsha	Member	Student Progression Committee Department of Physics, Kalindi College, University of Delhi
12.	Dr. Varsha	Member	AQAR Committee Department of Physics, Kalindi College, University of Delhi

Faculty achievement

1. Convenor for the Online Training Programme on “NEP Orientation and Sensitization Programme” organized by Kalindi College in collaboration with Mahatma Hansraj Malaviya Mission Teacher Training Centre, Hansraj College, University of Delhi from 03.03.25 to 11.03.25.
2. Convenor for Banner, Memento and felicitation Committee for the National seminar on topic : “Sustaniable Startup: Integrating Tradition Knowledge with Innovation” organized by IBSD Committee in collaboration with IQAC Kalindi College, University of Delhi
3. Co-Convenor of the Career Vartalap “A CAREER COUNSELLING SESSION WITH ALUMNI” organized by Department of Physics, Kalindi College, in collaboration with Kalindi College Alumni Association on 18.1.25.

4. Co-Convenor of National workshop on “Searching for Heaven” organized by Physithon Society Department of Physics, Kalindi College, University of Delhi on 14.10.2024.
5. Program Coordinator for IMC-24 Visit to Bharatmandapam by Department of Physics, Kalindi College, University of Delhi on 17.10.24.
6. Program Coordinator to Visit to CSIR-NPL for Foundation Day Celebration 2024 organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi on 01.10.2024.
7. Program Coordinator for Yuva Shakti Abhiyan, one week workshop organized by Department of Physics, Kalindi College, University of Delhi from 25.9.24 to 03.10.2024.
8. Program Coordinator in conducting a Webinar on “Understanding National Education Policy- Familiarization with NEP Course Structure” organized by Physithon Society, Department of Physics, Kalindi College, University of Delhi under the banner of Deeksharambh on 05.9.24.
9. Program Coordinator of National seminar on “Contribution of contemporary Science advancement of society” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 21.10.24 in Kalindi College.
10. Program Coordinator of webinar series part I entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 25.1.25
11. Program Coordinator of webinar series part II entitled “ Role of women scientists towards science and society under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 7.3.25.

12. Program Coordinator for rural workshop “ Women and children health and hygiene awareness” under National academy of sciences India Delhi chapter: Science and society program (Project DC2) on 10.2.25 in Chandrawal village, Delhi.
13. Mentor for the training program on “Sustainability Studies” under Honeywell Women Empowerment Program organized by Delhi University Computer Centre, University of Delhi in collaboration with ICT Academy from 17.2.25 to 06.3.25.

Faculty Induction Program

1. Attended Faculty Induction Program (FIP-6) organized by Centre for Professional Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC) University of Delhi from 23.07.24 to 20.08.24.

Faculty development program

2. Attended online training programme on “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Centre for Professional Development in Higher Education (CPDHE), University of Delhi from 08.10.24 to 17.10.24.
3. Attended FDP on “Healthcare and Med Tech: Innovations, Challenges, and Future Directions” organized by Delhi Technological University with AICTE Training and Learning (ATAL) Academy from 09.12.24 to 14.12.24.

Refresher Course

1. Attended two-week refresher course on ICT in Academics and Research organized by Mahatma Hansraj-Malaviya Mission Teacher Training Centre (MMTTC), Hansraj College, University of Delhi from 16.12.24 to 30.12.24.

Work Shop Attended

1. Attended Inter-College workshop on “Indoor air pollution and Smoking” organized by anti-tobacco committee, Kalindi college on 25th Feb.2025.
2. Attended an educational tour to Nehru Planetarium on 18th Feb, 2025

Attended a workshop “Physics in Action, Experiments for curious minds” organized by department of Physics, Kalindi college on 4.3.25.

Publication

1. Investigation of electromagnetic-induced transparency in GaAs quantum dot in presence of Morse potential, Physica Status Solidi B, 25002004, 1 (2025)

Head Examiner

Head Examiner-II for Semester - III for the Undergraduate NEP : UGCF-2022 & CBCS-LOCF Semester-I/III/V (Repeat) Examination Dec./Jan-2024 for Regular students for the Academic Session 2024-25, Department of Physics and Astrophysics, University of Delhi, November 2024.