



# SKC GOVT. DEGREE COLLEGE POONCH

NAAC Accredited with "A" grade

## DEPT. OF PHYSICS

### *Departmental Profile*



*"Physics connects the dance of subatomic particles to the destiny of celestial giants."*

*Dr. Waseem Ul Haq*



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# PHYSICS

SKC GDC POONCH  
NAAC Accredited With "A" Grade  
DEPT. OF PHYSICS



2025



*"Where Ideas Collide, Interfere, and Emerge Brighter."*

First Edition – Physics Department Newsletter

**Inside This Inaugural Issue:**

- The department's year in review
- Faculty research spotlight
- Cosmic puzzles & thought experiments



23 August

**NATIONAL SPACE DAY**

Touching lives while touching the Moon: India's Space Saga

Treasuring the memory of Chandrayaan-3's historic moon landing

# VISION AND MISSION

## Vision

To be a beacon of academic excellence in the Physics department **established in 1955**, nurturing scientific curiosity and fostering resilient minds capable of meeting the unique challenges of a border region. The department aspires to empower students from remote areas by providing quality education, innovative learning experiences, and a strong ethical foundation, thus contributing to the development of both the region and the nation

## Mission

- To provide a rigorous and holistic undergraduate education in Physics that blends theory with hands-on experimentation, ensuring that students develop strong analytical and problem-solving skills relevant to current scientific and technological contexts
- To promote an inclusive environment that recognizes the talents and potential of students from diverse backgrounds, with special attention to the aspirations and challenges faced by youth of far-flung areas near the LOC
- To nurture qualities of scientific inquiry, creative thinking, and social responsibility, preparing graduates to pursue higher education, research, teaching, or roles in industry and the community.



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# **CONTENTS**

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**Vision & Mission**

**Lifetime Legacy Tribute**

**Principal's Message**

**Message from the HoD**

**Faculty Profiles**

**Academic Programs**

**Department Highlights and Achievements**

**Infrastructure and Laboratory Facilities**

**Initiatives/Projects**

**Alumni & Student Achievements**

**Activities Workshops, Seminars, and  
Conferences Organized**

**Important Links**

# Lifetime Legacy Tribute: **MENTOR**



**Dr. S.D. Sharma**

## **Principal (Retd.) JKHED**

A dedicated educator and administrator, Dr. S.D. Sharma served this institution with distinction, progressing from Assistant Professor of Physics in 1972 to Principal, a role he held until his retirement in 2004. Throughout his tenure, he was the cornerstone of college life, also fulfilling vital roles as NSS Programme Officer, Staff Secretary, and Convener for both Examinations and the Discipline Committee, leaving a lasting legacy on the campus and its students.

# Dr. S.D. Sharma: A Stalwart of Education in Jammu & Kashmir



Dr. S.D. Sharma's academic journey began at Government Degree College, Poonch, where he completed his graduation in 1968. Demonstrating a keen aptitude for physics, he pursued and earned his postgraduate degree from the Department of Physics, University of Jammu in 1970.

He commenced his distinguished career in 1970 by joining the School Education Department. His true academic calling, however, was realized in 1972 when he joined the Jammu & Kashmir Higher Education Department as an Assistant Professor of Physics. A dedicated scholar, Dr. Sharma furthered his expertise by earning his Ph.D. in 1986 through a collaborative program between the University of Jammu and the prestigious Bhabha Atomic Research Centre (BARC).



His career at the institution was marked by progressive leadership and multifaceted service. After serving as the Head of the Department of Physics, he rose to the position of Principal, guiding the college with distinction until his retirement in 2004. Beyond his primary academic and administrative duties, Dr. Sharma was the backbone of numerous critical college functions. He served with great commitment as the NSS Programme Officer, Staff Secretary, Convener of Examinations, and Convener of the Discipline Committee. Through these major roles, he made an indelible contribution to the holistic development of his institution, shaping both its academic rigor and its organizational ethos for over three decades.

## FROM THE PRINCIPAL'S DESK



DR. JASBIR SINGH  
PRINCIPAL  
SKC GDC POONCH

It gives me great pleasure to witness the launch of our Physics Department's first ever newsletter, a noteworthy achievement that reflects the vision and dedication of Dr. Waseem Ul Haq, our esteemed Head of Department. This initiative is a testament to the department's commitment to fostering a culture of academic excellence, collaboration, and communication within our college.

The newsletter is not only a platform to showcase the outstanding work of students and faculty, but also an avenue to celebrate milestones, foster connections with alumni, and inspire future innovations. Such efforts go a long way in strengthening the intellectual fabric of our institution and keeping all stakeholders informed and engaged.

I extend my heartfelt congratulations to Dr. Waseem and the entire editorial team for their tireless efforts in compiling and publishing this newsletter. May this endeavor continue to grow, bringing further honor and visibility to our Physics Department.

With best wishes,

*Dr. Jasbir Singh*

Principal, SKC Govt. Degree College Poonch.

**MESSAGE FROM THE HEAD OF DEPARTMENT**

**DR. WASEEM UL HAQ**  
**ASSISTANT**  
**PROFESSOR OF**  
**PHYSICS, JKHED**

It is with immense pleasure and a sense of collective pride that I present to you the inaugural edition of our Physics Department Newsletter. This publication marks a significant milestone for our department, symbolizing not only our academic growth but also the vibrant community spirit among our students, faculty, and alumni.

The compilation of this newsletter has been a remarkable journey, bringing together stories of innovation, dedication, and achievement from all corners of our department. Within these pages, one will discover the diverse accomplishments of our students, recent faculty research and publications, and highlights from the rich array of seminars, workshops, and outreach activities conducted over the past year. This initiative aims to keep every member of our department informed, inspired, and connected.

With great pleasure, I present this newsletter as a lifetime tribute to Dr. S.D. Sharma. We sincerely thank him for accepting this honor, which recognizes his many years of dedicated service to the department. May this newsletter serve as an enduring platform for sharing ideas, celebrating successes, and fostering a culture of academic excellence within our department.

With best wishes and anticipation for continued achievements,

Best Regards,

*Dr. Waseem Ul Haq*

Assistant Professor and Head Dept. of Physics  
SKC Govt. Degree College Poonch

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# **FORMER HEADS OF DEPARTMENT & FACULTY**

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**Prof. Moti Lal raina.**

**Prof. Atar Singh Kotwal**

**Prof. Inder Parkash Sharma**

**Prof. Mona Sethi**

**Prof. R. K Bosotra**

**Prof. Tilak Raj Verma**

**Prof. Aman Rathore**

**Prof. Yogeshwar Gupta**

**Prof (Dr.) S. D. Sharma**

**Prof (Dr.) K.K Sharma**

**Prof. Tehseen Shah**

**Prof. Nater Parkash**

**Prof (Dr.) Bashir Ahmed**

**Prof. Joginder Singh**

**Prof. Suresh Kumar**

**Prof. Atal Bharti**

# FACULTY PROFILE

## DR. WASEEM UL HAQ

Assistant Professor of  
Physics, JKHED



### ABOUT ME

Hails from Village  
Kalaban in Mendhar,  
Poonch, J&K, India

### EDUCATION

#### Ph.D. Physics

Indian Institute of Technology (IIT)  
Delhi

#### M.Sc. Physics

Central University of Haryana.

#### Graduation

Govt. Degree College Mendhar.

**JKPSC-AP, 2019**

**CSIR-UGC, NET JRK-SRF, 2016**

**CUET (PG) 2015**

### RESEARCH INTEREST

Nano-Science and Nano-technology,  
Ion-material interactions, and energy  
materials.

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### TEACHING EXPERIENCE

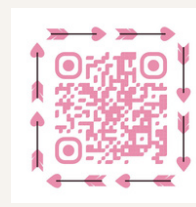
#### JKHED

- GDC Surankote 2021-2023
- GDC Poonch 2023-TILL DATE

#### Research Articles

- RSC-PCCP, 2024,26, 5311-5322.
- RSC-PCCP, 2025,27, 3701-3714.
- Taylor & Francis, MT-APM, 2021,  
09, 1051-1061.

#### GOOGLE SCHOLAR



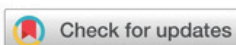
WHATSAPP GROUP LINK

## RESEARCH ARTICLE PUBLICATION

PCCP



PAPER

[View Article Online](#)  
[View Journal](#) | [View Issue](#)Cite this: *Phys. Chem. Chem. Phys.*,  
2024, 26, 5311

## Study on damage of Gd<sub>2</sub>O<sub>3</sub>–CeO<sub>2</sub> under electronic energy loss: comparison between bulk-like and nanostructure

Waseem Ul Haq,<sup>a</sup> V. Grover,<sup>id b</sup> Parswajit Kalita,<sup>c</sup> Rakesh Shukla,<sup>b</sup> Fouran Singh,<sup>id d</sup> Sanjeev Kumar Srivastava,<sup>id e</sup> Shivam Shukla<sup>e</sup> and Santanu Ghosh<sup>id \*a</sup>

To understand the physical phenomena responsible for radiation damage of the materials used in nuclear reactors, and thus study their operation life and/or efficiency, it is required to simulate the conditions by exposing the materials to energetic ions. Ceria (CeO<sub>2</sub>) has been proposed as one of the inert matrices for the transmutation of minor actinides in the futuristic inert matrix fuel (IMF) concept. The inert matrix should also contain burnable poison to compensate for the initial reactivity of fuel. In this context, gadolinium (Gd) is an excellent burnable poison with a high neutron absorption cross-section. In view of this, Gd<sub>2</sub>O<sub>3</sub>–CeO<sub>2</sub> nano-powders were synthesized and sintered at 800 °C and 1300 °C to obtain different grain sizes and morphologies. FESEM and TEM were carried out to study the grain size of pristine pellets. The sintered pellets were irradiated with 80-MeV Ag ions (electronic energy loss (S<sub>e</sub>) regime) at room temperature to emulate the effect of fission fragments. For analysis of the effect of grain size on the irradiation-induced structural degradation at different fluences, GIXRD and Raman spectroscopy were performed. Significantly large damage has been observed for the smaller grain-sized samples (sintered at 800 °C) as compared to the large grain-sized sample (sintered at 1300 °C). Neither of the samples amorphized under the present experimental conditions as indicated by the presence of the Raman-active T<sub>2g</sub> mode (centred at 462 cm<sup>-1</sup>) and all the XRD peaks of fluorite cubic structure up to the highest fluence employed (1 × 10<sup>14</sup> ions cm<sup>-2</sup>). X-ray photoelectron spectroscopy results demonstrate that Ce<sup>4+</sup> to Ce<sup>3+</sup> and vacancy-related isolated clusters are the main defects produced in the systems. The radiation tolerance behaviour of the samples is understood with the help of thermal spike simulation, which indicates higher transient lattice temperatures with longer duration in the smaller grain-sized sample upon irradiation. Gd-doped ceria thus possesses good radiation stability in the S<sub>e</sub> regime, indicating its potential for application in IMFs.

Received 4th November 2023,  
Accepted 11th January 2024

DOI: 10.1039/d3cp05252d

[rsc.li/pccp](http://rsc.li/pccp)

### 1. Introduction

Depending upon the incident ion energy, ion–matter interaction leads to different phenomena within target materials, such as point defect clustering, volume swelling, defect annealing, formation of cylindrical ion tracks or latent tracks, *etc.* For low ion energy (ranging from tens to hundreds of keV), the

incident ion loses its energy primarily *via* elastic collisions with the nuclei of the target atoms. Collision cascades are produced in this regime in which a large number of target atoms are knocked out and displaced from their lattice sites.<sup>1</sup> The energy loss of the incident ion in this process is called nuclear energy loss (S<sub>n</sub>). On the other hand, high-energy ions/swift heavy ions (energies of tens of MeV and above) undergo inelastic interaction with the electrons of the target material initially. In this situation, the loss of energy suffered by the incident ions is referred to as electronic energy loss (S<sub>e</sub>). The energy is subsequently transferred from the electrons to the lattice subsystem within a time scale of 10<sup>-13</sup> seconds *via* electron–phonon coupling<sup>2</sup> which creates a modified cylindrical zone (of a few nanometers in radius) along the ion path within the material—known as the ‘ion track’.

The behaviour of doped ceria for different energy applications has been studied widely. Cerium dioxide (ceria/CeO<sub>2</sub>) is

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<sup>b</sup> Chemistry Division, Bhabha Atomic Research Centre (BARC), Mumbai 400085, India

<sup>c</sup> Applied Sciences Cluster, University of Petroleum & Energy Studies (UPES), Dehradun 248007, India

<sup>d</sup> Material Science Group, Inter-University Accelerator Centre (IUAC), New Delhi 110067, India

<sup>e</sup> Department of Physics, Indian Institute of Technology (IIT) Kharagpur, Kharagpur 721302, India

## RESEARCH ARTICLE PUBLICATION

PCCP



PAPER

View Article Online

View Journal | View Issue



Cite this: *Phys. Chem. Chem. Phys.*,  
2025, 27, 3701

## Higher stability of nanophase $\text{Gd}_2\text{O}_3\text{-CeO}_2$ upon 400 keV $\text{Kr}^+$ ion irradiation over bulk: role of defect annealing across grain boundaries

Waseem Ul Haq,<sup>a</sup> V. Grover,<sup>b</sup> Rakesh Shukla,<sup>b</sup> Sanjay Kumar Kedia,<sup>c</sup> Aman Singh,<sup>d</sup> Sanjeev Kumar Srivastava,<sup>e</sup> Shivam Shukla<sup>e</sup> and Santanu Ghosh<sup>a\*</sup>

The concept of inert matrix fuel (IMF) has been proposed to utilize the energetic value of Pu and transmute minor actinides in nuclear reactors. In order to offset the initial reactivity of nuclear fuel, gadolinium ( $\text{Gd}^{3+}$ ) is employed as a burnable poison, owing to its high neutron absorption cross-section. To gain insights into the radiation stability and influence of grain boundaries on irradiation behaviour, 5 mol% Gd-doped ceria samples, sintered at varying temperatures, were subjected to irradiation using 400 keV  $\text{Kr}^+$  ions. In order to examine the correlation between the radiation response and variations in particle size, a variety of characterization techniques were employed, including X-ray diffraction (XRD), Raman spectroscopy, and X-ray photoelectron spectroscopy (XPS) studies. The study employed systematic methodologies to investigate the structural, chemical, and spectroscopic features of irradiated pellets.  $\text{Gd}_2\text{O}_3\text{-CeO}_2$  nano powders underwent sintering and palletization at 800 °C (S800), 1000 °C (S1000), and 1300 °C (S1300). Microstructural analysis via field emission scanning electron microscopy (SEM) revealed significant distinctions among the specimens. Glancing angle X-ray diffraction (GIXRD) and field emission scanning electron microscopy (FESEM) were performed on pristine samples to study the initial phase studies, crystal structure, variations in crystallite size and microstructures. Samples irradiated with 400 keV  $\text{Kr}^+$  were studied by GIXRD, Rietveld refinement analysis and Raman spectroscopy. None of the samples completely amorphized at the highest fluence of  $1 \times 10^{17}$  ions per  $\text{cm}^2$ . Under low-energy ion beam irradiation, the nanosized ceria samples accumulate a larger number of defects (oxygen vacancies and  $\text{Ce}^{3+}$  resulting from  $\text{Ce}^{4+}$  reduction to maintain charge neutrality) compared to the  $\mu$ -sized sample. To emulate the bombardment of ions into the material, SRIM and TRIM (computer simulations) were also performed to follow the paths of ions and their trajectories. Critical analysis elucidates that there is an exceptional radiation tolerance in nano-grained-sized samples in comparison to bulk grain-sized samples. The role of grain boundaries and the grain size effect in the nuclear energy loss regime ( $S_n$ ) has been critically discussed in this study.

Received 1st October 2024,  
Accepted 17th January 2025

DOI: 10.1039/d4cp03775h

rsc.li/pccp

### 1. Introduction

Stability under various types of radiation present in nuclear reactors (particles, fission fragments,  $\alpha$ -recoils and neutrons) is

a desirable property of the material intended for nuclear application. In this context, it is critical to assess ceramics' radiation resistance to swift heavy ions (SHI) and low-energy heavy ions in order to determine how well they can withstand fission fragments and alpha recoils, respectively, which can cause significant damage in materials when used as nuclear fuels or waste immobilization matrices.<sup>1</sup>

In principle, when the ions of sufficiently high energy, typically ranging from (1 MeV to 100 MeV), are bombarded on a material, the incident particles lose their energy in the target material by excitation and ionization of the target material. Such a kind of loss is referred to as electronic energy loss ( $S_e$ ). On other hand, when an ion of low energy (of a few keV range) hits the target material, it mainly loses its energy by

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<sup>c</sup> Material Science Group, Inter-University Accelerator Centre (IUAC), New Delhi 110067, India

<sup>d</sup> Institute of Emerging Electronic Technology, Leibniz IFW Dresden, Dresden 01069, Germany

<sup>e</sup> Department of Physics, Indian Institute of Technology (IIT) Kharagpur, Kharagpur 721302, India

## RESEARCH ARTICLE PUBLICATION

MATERIALS TECHNOLOGY  
<https://doi.org/10.1080/10667857.2021.1918866>



## Investigating photoluminescence properties of $\text{Eu}^{3+}$ doped $\text{CaWO}_4$ nanoparticles via $\text{Bi}^{3+}$ amalgamation for $w$ -LEDs application

Maheshwary Singh<sup>a</sup>, Waseem Ul Haq<sup>a</sup>, Swati Bishnoi<sup>b</sup>, Bheeshma Pratap Singh<sup>c</sup>, Sandeep Arya<sup>b,d</sup>, Ajit Khosla<sup>e</sup> and Vinay Gupta<sup>f</sup>

<sup>a</sup>Department of Physics, Central University of Haryana, Mahendergarh, India; <sup>b</sup>Advanced Materials and Devices Division, National Physical Laboratory, New Delhi, India; <sup>c</sup>Chemistry Division, Bhabha Atomic Research Centre, Trombay, India; <sup>d</sup>Department of Physics, University of Jammu, Jammu, India; <sup>e</sup>Department of Mechanical Systems Engineering, Faculty of Engineering, Yamagata University, Yamagata, Japan; <sup>f</sup>Department of Mechanical Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

### ABSTRACT

$\text{Eu}^{3+}$ -doped  $\text{CaWO}_4$  nanophosphors were synthesised in series for different atomic wt% concentrations (0, 0.5, 1, 2, 5 and 10) of  $\text{Bi}^{3+}$  by polyol method. Their structure and morphology were characterised using X-ray diffraction (XRD) and scanning electron microscopy (SEM). The photoluminescence properties and energy transfer from  $\text{Bi}^{3+}$  to  $\text{Eu}^{3+}$  in  $\text{CaWO}_4:\text{Eu}^{3+}/\text{Bi}^{3+}$  nanophosphors were also investigated. The results revealed that red luminescence of  $\text{CaWO}_4:2\text{Eu}^{3+}/1\text{Bi}^{3+}$  nanophosphor is 5.4 times stronger than  $\text{CaWO}_4:2\text{Eu}^{3+}$ . It was observed that the forces exist between  $\text{Bi}^{3+}$  and  $\text{Eu}^{3+}$  are due to the interaction of electric dipole-dipole interactions. The chroma of  $\text{CaWO}_4:2\text{Eu}^{3+}/1\text{Bi}^{3+}$  nanophosphors was calculated to be 97.40%. The energy transfer process was studied by measuring the decay curves due to  $\text{Bi}^{3+}$  and  $\text{Eu}^{3+}$  dopants. Enhanced red emission, high thermal stability, stronger  ${}^5\text{D}_0 \rightarrow {}^7\text{F}_2$  absorption intensity, high colour purity and decay studies indicate that  $\text{CaWO}_4:\text{Eu}^{3+}/\text{Bi}^{3+}$  nanophosphors are potential candidates to be used in white light-emitting diode ( $w$ LEDs).

### ARTICLE HISTORY

Received 7 February 2021  
 Accepted 12 April 2021

### KEYWORDS

$\text{Bi}^{3+}$  ions; energy transfer; colour purity; nanophosphors; decay studies;  $w$ LED applications

### Introduction

Owing to the excellent properties of  $w$ LEDs such as high luminescence, energy efficiency, low power consumption, lack of toxic mercury, long operating lifetime and environmental-friendly characteristics as compared to the fluorescent light sources and conventional incandescent lamps counterparts,  $w$ LEDs have revolutionised the display technology and almost replaced the conventional sources [1–8].  $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+}$  (YAG:Ce) yellow phosphor in combination with blue LEDs are used to produce commercially available phosphor-converted white LEDs. YAG:Ce-based  $w$ LEDs emit cool white light but they have low colour rendering index (CRI < 80) and high correlated colour temperature (CCT = 4000–8000 K). This is due to the red colour deficiency of the yellow phosphor. There is a need for red phosphors that have narrow line emission in deeper red regions for use in phosphor blends to produce  $w$ LEDs.

The nanomaterials have been tremendously utilised in diverse fields in view of their unique and prominently distinctive optical, chemical and electronic properties. Optical properties of rare-earth ion-doped nanomaterials have revolutionised the world of LEDs [9]. Red phosphors, such as those with rare-earth-activated tungstates and molybdates, are vastly used in different fields, such as high chemical stability,

high X-ray absorption coefficient, and high average refractive index, which present efficient energy transfer from the tungstates host matrix to the localised states of the doping ions, and thus results in higher emission. Among others, special attention has been given to  $\text{Eu}^{3+}$ -activated phosphors as they possess high CRI values but exhibit low absorption in blue or near-ultraviolet (UV) light because of parity-forbidden  $4f-4f$  transitions [10–20]. Due to its intense  ${}^5\text{D}_0 \rightarrow {}^7\text{F}_2$  emission in the red spectral region,  $\text{Eu}^{3+}$  has been extensively studied as an activator ion and used in most commercial red phosphors.  $\text{Eu}^{3+}$  ion-doped tungstates have received considerable attention. These compounds generate narrow emissions in the visible red region [21–24]. Self-activated  $\text{CaWO}_4$  nanophosphors when doped with  $\text{Eu}^{3+}$  emit red light. Under UV wavelength light excitation, activator  $\text{Eu}^{3+}$  acts as an emissive centre, which manipulates the luminescence spectrum [25–31]. The luminescence properties of  $\text{Bi}^{3+}$  ions which have  $6s^2$  electronic configuration are described by  ${}^1s_0 \rightarrow {}^3p_1$  transition [32].  $\text{Bi}^{3+}$  is used both as an activator and a sensitizer in various host materials [6,33–36]. Tungstates are chemically stable which is superior to their sulphide and oxy-sulphide red-emitting

**CONTACT** Sandeep Arya [snp09arya@gmail.com](mailto:snp09arya@gmail.com) Department of Physics, University of Jammu, Jammu, Jammu and Kashmir 180006, India  
 Supplemental data for this article can be accessed here.

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# RESEARCH INTERNATIONAL CONFERENCES IN LAST 5 YEARS

- 1. Presented a poster on the topic **"Synthesis and Characterization of Gd<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> and its behavior against 80 MeV Ag ions irradiation"** in **EMRS 2021, France** 31st May – 4th June 2021.
- 2. Presented research work on the topic **"The grain size effect in Gd<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> upon 400 KeV Kr<sup>+</sup> ions irradiation and its radiation tolerance"** in **IBMEC-22, IUAC** 16th -19th November 2022.
- 3. Research work presented on the topic **"Investigation Of Gd<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> And Its Behavior Against 80 MeV Ag Ions Irradiation"** in **ICNOC-22, JMI** 28th -29th November 2022.
- 4. Presented a research work entitled "The role of Nano-grain size vs bulk in low/high energy ion irradiation at room temperature; induced modifications and radiation tolerance" at the **5-day International Conference on Nanotechnology for Better Living** held at NIT Srinagar from 25th – 30th May 2023.
- 5. Presented an oral presentation on the topic of "Synthesis and Characterization of Gd<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> and its behavior against 80 MeV Ag ions irradiation" in **"4th Departmental symposium Advances in Physics 2020"** in **the Dept. of Physics IIT Delhi** on 1st-3rd Dec. 2020.

## Workshops/Seminar Attended

- Attended **Indo-French Seminar** on "Radiation Damage in Nuclear Materials (Radium-2019)" from 18-20, February 2019. at **AMITY Institute of Nanotechnology, Noida, India.**
- Attended a 3-day workshop on **"Advanced Simulation Method: DFT, MD and Beyond"** held at **IIT Delhi** from March 6-10, 2019.
- Attended workshop **"International School on Ion beams in Materials Science"** on (3rd -7th, October 2018) at **IUAC, New Delhi.**



09 July 2025



I am thankful to Almighty for the joy, lessons, peace, and the wonderful memories that this day has brought me.



July-2025

*Institute of Eminence*



## DR. WASEEM UL HAQ CONFERRED WITH PH.D. IN PHYSICS FROM IIT DELHI

In a moment of immense pride for the academic community of Jammu and Kashmir, Dr. Waseem Ul Haq, the Head of the Department of Physics at Shri Krishan Chander (SKC) Government Degree College (GDC) Poonch, has been conferred with a Doctor of Philosophy (PhD) in Physics from the prestigious Indian Institute of Technology (IIT) Delhi.

**RESEARCH TOPIC:** *“Influence of Grain Size and Environmental Temperature on Ion Energy Loss in Materials: A Comprehensive Study of Gadolinium-Doped Ceria”,*

### SUPERVISORS:



**Prof. Santanu Ghosh:**  
Professor,  
Dept. of Physics,  
Indian Institute of Technology Delhi,  
New Delhi, India

**Prof. Vinita Grover Gupta:**  
Scientific Officer (H)  
Mumbai, India.  
Chemistry Division,  
Baba Atomic Research Center  
Professor.  
Homi Bhabha National Institute



# ACADEMIC PORTFOLIO

## LAST 5 YEARS

- Acted as **organizing member** Two Day Interdisciplinary International conference on "**Recent trends in Sciences, Humanities, Social Sciences and Languages**" at GDC Surankote **20 & 21/03/2023**.
- Organized and participated in A **two-day multi-disciplinary National conference** organized by **SKC GDC Poonch and SCS GDC Mendhar** on the **2nd and 3rd of March 2024**.
- Delivered an **invited talk** on 13-03-2023 in **7-day workshop** on **career development for Non-teaching staff** tools and techniques for an effective performance organized by **GDC Mendhar**.
- 
- **As Nodal officer Cyber jagrukta Diwas organised** two extension lectures at GDC Surankote on 01-04-2022 & 22-04-2022

## FIP/ORIENTATION/REFRESHER PROGRAMMES

- Successfully completed a **4-Week Induction/Orientation Programme** for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by **TLC Ramanujan College, University of Delhi** from **20 December, 2021 – 19 January, 2022** and obtained **Grade A+**.
- Successfully completed online interdisciplinary **two-week Refresher Course** in "**Managing Online Classes & Co- creating MOOCS 20.0**" MOOCs organized by **TLC Ramanujan College, University of Delhi** from 07 – 21 November 2022 and obtained **Grade A+**.
- Successfully completed **5-Day online FDP program by Scroll well** and GDC Bhagwati Nagar Jammu in October 2022.

# ACADEMIC PORTFOLIO

## LAST 5 YEARS

- During pandemic, organized **one day national-level** webinar on **Virtual lab and hands-on training session** as well on 07-06-2021.
- Participated in one day **International web conference** on Gandhian Philosophy organized to commemorate the **International Day** of Non Violence on the theme “ **The power of non-violence**” on October 03, 2022
- Attend the **National Conference** on NEP at **IIM Jammu** organised by UGC.
- Attended a **two-day workshop on E-yantra** at the **University of Jammu**. Dated: 24 & 25-11-2024.
- Organized **National Webinar** on “**Strategies to Crack Competitive Examination After Graduation**” Organized by GDC Surankote in collaboration with **Institute For Advanced Studies Pune**.
- The **Department of Physics at SKC Government Degree College (GDC)** Poonch organized a grand celebration of **National Space Day 2024**, bringing together students, faculty, and esteemed guests to explore the wonders of **space science and technology**.

## Board of Studies & design of NEP-2020 syllabus

Attended **Meeting of Board of Studies** in the **Dept. of Physics University of Jammu**

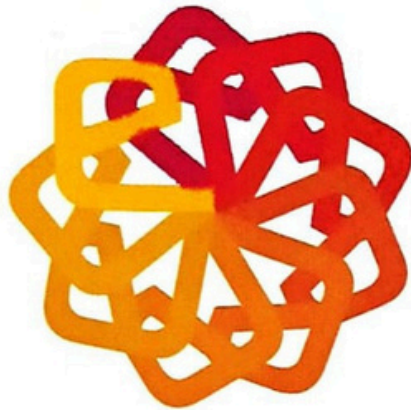
| S.No. | Name              | Date               |
|-------|-------------------|--------------------|
| 1     | Dr. Waseem Ul Haq | <b>28-07-2022.</b> |
| 2     | Dr. Waseem Ul Haq | <b>31-05-2023.</b> |
| 3     | Dr. Waseem Ul Haq | <b>29-05-2025</b>  |

# E-YANTRA

## FACULTY TRAINING PROGRAM



ERTS Lab  
Department of Computer Science and Engineering  
Indian Institute of Technology Bombay,  
Powai, Mumbai-400 076.



**eYantra**

### Certificate of Participation

This is to certify that **Waseem Ul Haq** from *Government Degree College (SKC Govt Degree College) Poonch* has successfully participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on *24th & 25th November 2023* held at *University of Jammu, Jammu & Kashmir*.

Prof. Kavi Arya  
Principal Investigator, e-Yantra  
Professor  
Department of Computer Science and Engineering  
Indian Institute of Technology Bombay



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Engineering a better tomorrow

e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).

# E-YANTRA

## FACULTY TRAINING PROGRAM



eYantra

Engineering a better tomorrow

ERTS Lab  
Department of Computer Science and Engineering  
Indian Institute of Technology Bombay,  
Powai, Mumbai-400 076.



### Certificate of Participation

This is to certify that *Dr. Waseem Ul Haq* from *Shri Krishan Chander Govt. Degree College Poonch* has successfully participated in the two-day workshop on "Introduction to Embedded Systems and Robotics" conducted on *6th and 7th October 2025* held at *Government Gandhi Memorial Science College, Jammu*.

Prof. Shivaram Kalyanakrishnan  
Principal Investigator, e-Yantra  
Associate Professor  
Department of Computer Science and Engineering  
Indian Institute of Technology Bombay



e18773218102396079b02eb3dca7f06850a1913

e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).

# NATIONAL WORKSHOP ON SKILL DEVELOPMENT



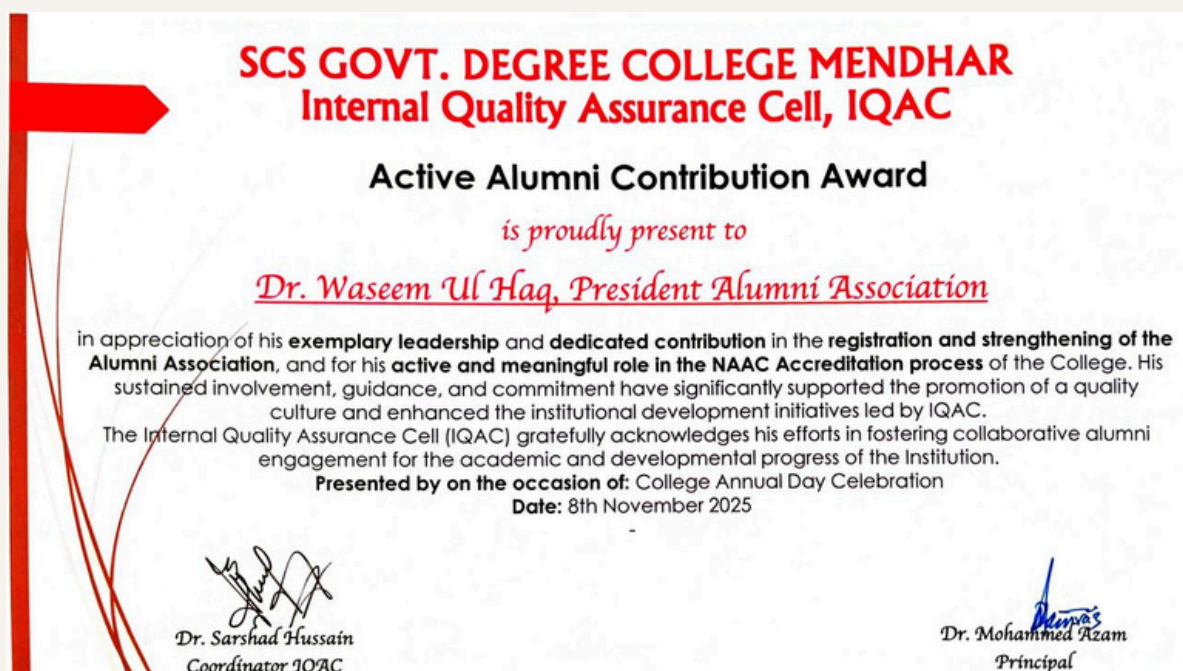
## FELICITATION BY SCS GDC MENDHAR



# INDIA SPACE ACADEMY, ISW WORKSHOP



## FELICITATION BY SCS GDC MENDHAR



# ANNUAL FUNCTION

November-2025

Physics Newsletter

VoL. 1 / 2025 / PHY / GDGP

श्री चोटे शाह गवर्नमेंट डिग्री कॉलेज  
SHRI CHOTE SHAH GOVERNMENT DEGREE COLLEGE

GOVT DEGREE COLLEGE MENDHAR

President Alumni Association



## DR. WASEEM UL HAQ AWARDED ON ANNUAL FUNCTION OF SCS GOVT. DEGREE COLLEGE MENDHAR

In a moment of immense pride for the Alumni Association SCS GDC Mendhar, Dr. Waseem Ul Haq (Head of the Department of Physics at Shri Krishan Chander (SKC) Government Degree College (GDC) Poonch) has been awarded in recognition of his exemplary leadership and dedicated contribution in the registration and strengthening of the Alumni Association, and for his active and meaningful role in the NAAC Accreditation process of SCS GDC Mendhar. He also promoted the quality culture and enhanced the institutional development initiatives led by IQAC.

### PRESIDENT



**Dr. Waseem Ul Haq:**  
Batch of Graduation : 2011-2014  
Ph.D. Physics: IIT Delhi  
Assistant Professor of Physics, JKHED.  
President, Alumni Association  
SCS, GDC Mendhar

### SCS GOVT. DEGREE COLLEGE MENDHAR Internal Quality Assurance Cell, IQAC

Active Alumni Contribution Award

is proudly present to


Dr. Waseem Ul Haq, President Alumni Association


in appreciation of his **exemplary leadership** and **dedicated contribution** in the **registration and strengthening of Alumni Association**, and for his **active and meaningful role in the NAAC Accreditation process** of the College sustained involvement, guidance, and commitment have significantly supported the promotion of a quality culture and enhanced the institutional development initiatives led by IQAC.

The Internal Quality Assurance Cell (IQAC) gratefully acknowledges his efforts in fostering collaborative alumni engagement for the academic and developmental progress of the Institution.

Presented by on the occasion of: College Annual Day Celebration

Date: 8th November 2025

  
Dr. Sarshad Hussain  
Coordinator IQAC

  
21  
Dr. Mohammed Azam  
Principal

---

# ANSWER SCRIPT EVALUATION

---



## SHRI KRISHAN CHANDER GOVT. DEGREE COLLEGE POONCH

(NAAC Accredited A Grade)

No. GDCP/Eval/UG/Sem-5th/25/23

Dated: 26-05-2025

### CERTIFICATE

It is certified that Prof./Dr. Waseem Ul Haq of SKC. Govt. Degree College Poonch has evaluated 97 Answer Scripts of the Subject Physics (FYUGP Sem-5<sup>th</sup> NEP) for the session 2024-25 having Evaluation ID: UG/NEP/PC/V/24/14,24,34 at Evaluation Centre Shri Krishan Chander Govt. Degree College Poonch.

He/ She has performed his/her duty meticulously and diligently.

**Dr. Mussarat Jabeen**  
Dy. PROJECT DIRECTOR  
SKC GDC POONCH

**Dr. Jasbir Singh**  
PROJECT DIRECTOR  
SKC GDC POONCH

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# ANSWER SCRIPT EVALUATION

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Email: [degrecollegepoonch@gmail.com](mailto:degrecollegepoonch@gmail.com)

Website: [www.gdcpoonch.co.in](http://www.gdcpoonch.co.in)

Shri Krishan Chander Govt. Degree College Poonch  
NAAC Accredited Grade "A"

No. GDCP/Eval/UG/Sem-4th /24/11

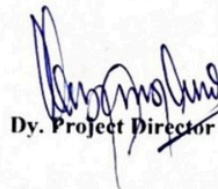
Dated: 03/03/2024

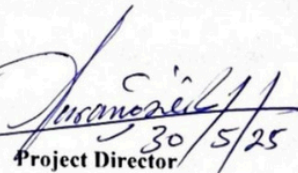
## Evaluation Certificate

It is certified that Prof. Waseem Ul Haq of Shri Krishan Chander Govt. Degree College Poonch has evaluated 12 number of Answer Scripts as Sub Examiner in the Subject Physics Course-Major/Minor/ MD/AECC of UG Semester 4<sup>th</sup>. (NEP) for the session 2024-25 against ID No GDCP/Evl/031/24/4<sup>th</sup> in the Evaluation Centre established at Shri Krishan Chander Govt. Degree College Poonch by the University of Jammu.

Hence Evaluation Certificate is issued in his / her favour.

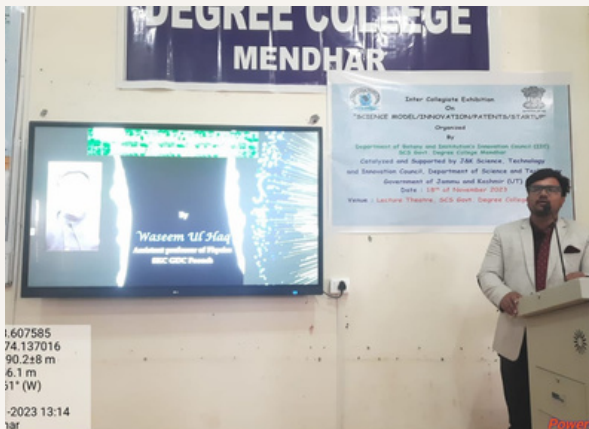
  
Coordinator

  
Dy. Project Director

  
Project Director  
30/5/25

# GUEST SPEAKER AT SCS GDC MENDHAR

The **SCS Government Degree College in Mendhar** successfully hosted a one-day Inter-Collegiate Exhibition centered on the theme “Science Model/Innovation/Patents/Startup.” The event aimed to provide a dynamic platform for students from various colleges to showcase their inventive projects and entrepreneurial ideas. As a key highlight of the programme, **Dr. Waseem Ul Haq** was invited to contribute his expertise as both a guest speaker and a jury member, roles he fulfilled with notable distinction and engagement.



## INTER COLLEGIATE EXHIBITION ON “SCIENCE MODEL/INNOVATION/PATENTS/STARTUP”

His talk focused on the critical interplay between academic science, practical innovation, and commercial entrepreneurship. He emphasized the importance of transforming theoretical knowledge into tangible solutions for real-world challenges. Dr. Haq provided valuable guidance on the pathways to securing patents, underscoring the importance of protecting intellectual property for young innovators.

# SEVEN DAY WORKSHOP ON CAREER DEVELOPMENT FOR TEACHING AND NON-TEACHING STAFF

**Dr. Waseem Ul Haq**



Distinguished Alumnus Dr. Waseem Ul Haq, delivered an insightful lecture on career advancement strategies.



He shared valuable insights on skill enhancement, leadership, and adapting to evolving workplace demands. His session was highly appreciated by participants for its practical approach and motivational guidance. The workshop, organized by GDC Mendhar, provided a platform for staff members to engage in interactive discussions, skill-building activities, and career planning sessions. College authorities praised the initiative, emphasizing its role in empowering employees for future challenges.



The event concluded with certificates being distributed to participants, marking a significant step toward institutional growth and staff development.

# GUEST SPEAKER AT SCS GDC MENDHAR



**Chief Patron** IQAC, SHRI CHOTTE SHAH GOVERNMENT DEGREE COLLEGE  
MENDHAR



Shri. Saurabh Bhagat IAS  
Commissioner/Secretary to Govt.  
Science & Technology/ skill  
Development Departments J&K(UT)



Dr. Nasir Ahmad Shah,  
Additional Director  
J&K S.T & IC (J&K UT)

NAAC Accredited with 'B' Grade  
**Department of Botany and  
Institution's Innovation Council (IIC)  
SCS Govt. Degree College Mendhar**

Organizes

Inter Collegiate Exhibition

On

"SCIENCE MODEL/INNOVATION/PATENTS/STARTUP"

Catalyzed and Supported by J&K Science, Technology and  
Innovation Council, Department of Science and Technology  
Government of Jammu and Kashmir (UT)



Sh. Sanjay Kharoo,  
Joint Director,  
J&K S.T & IC (J&K UT)

Patron



Prof. (Dr.) Yasmeen Ashai  
Director Colleges  
Hr. Edu. Department J&K(UT)

Co-Patron



Prof (Dr). Mohammed Azam  
Principal  
SCS GDC Mendhar

Date : 18<sup>th</sup> of November 2023

Venue : Lecture Theatre, SCS GDC Mendhar



Guest Speaker  
Prof Waseem Ul Haq,  
Department of Physics  
SKC GDC Poonch

Convener



**Dr. Abdul Raouf**  
Rtd. Principal  
Department of Higher  
Education



Expert talk  
Dr. Imtiaz Ahmed Wani  
Department of Chemistry  
SCS Govt. Degree College, Mendhar

IQAC, Co-ordinator  
Prof. Sarshad Hussain  
SCS GDC Mendhar

Organizing Secretary



Dr. Mahroof Khan  
HOD Botany  
SCS GDC Mendhar

| S.No | Activity /Event  | Time              | Topic/remarks                                     |
|------|--|-------------------|---|
| 1.   | Welcome address  | 10:30 to 10:35 am |   |
| 2.   | Expert talk-I<br>Prof. Waseem Ul Haq Department of Physics,<br>GDC Surankote.  | 10:35 to 10:50 am | SCIENCE MODEL<br>INNOVATION<br>PATENTS<br>STARTUP |
| 3.   | Expert talk-I<br>Dr. Imtiaz Ahmed Wani, Department of Chemistry<br>SCS Government Degree College Mendhar   | 10:50 to 11:05 pm |   |
| 4.   | The chief guest and experts visit the exhibition site to assess<br>the top models in the categories of "Science Model/<br>Innovation/ Patents/ Startup." | 11:05 to 11:30 pm |   |
| 5.   | Vote of Thanks   | 11:30 to 11:35 pm |   |

**ST-SCHOLARSHIP COMMITTEE**



CONVENER

DR. WASEEM UL HAQ  
HOD PHYSICS

I extend my deepest gratitude to our esteemed **Principal Dr. Jasbir Singh**, for entrusting us with this responsibility and believing in our vision. To my dedicated **committee members**—your creativity, tireless efforts, and commitment have brought this project to life. Each one of you contributed invaluable ideas, time, and energy, and for that, I am truly thankful. Together, we have crafted a prospectus that not only informs but also inspires.



CO-OPTED MEMBER

PROF. MASOOD AHMED  
ASSISTANT PROFESSOR OF  
MATHEMATICS



CO-OPTED MEMBER

DR. RAJNISH KUMAR  
HOD DOGRI



MEMBER

DR. IMTIAZ AHMED  
HOD EVS

MEMBER

PROF. MEHNAZ KOUSER  
HOD KASHMIRI



MEMBER

DR. ANKUSH BAKSHI  
ASSISTANT PROFESSOR  
CHEMISTRY

MEMBER

DR. ZAFFAR IQBAL  
HOD COMMERCE



MEMBER

PROF. MOHD FAISAL  
ASSISTANT PROFESSOR  
PHYSICS

MEMBER

DR. TABSIA AMIN  
HOD AGRICULTURE



MEMBER

PROF. RAJ KUMAR  
HOD POL. SCIENCE



# FACULTY PROFILE

## MR. MOHD FAISAL

Assistant Professor of  
Physics, JKHED



### ABOUT ME

Hails from Village  
Dodsan Bala,  
ThanaMandi, Rajouri,  
J&K, India

### EDUCATION

#### Ph.D. Physics- Pursuing

University of Jammu

#### M.Sc. Physics

University of Jammu 2016-18

#### Graduation

GGM Science College Jammu.

### PORTFOLIO

- UGC-CSIR, NET JRF-SRF 2018
- JKSET, 2023
- GATE : 2019

### Research Interest

Nuclear Theoretical Physics.

## Publications

1. Study of normal deformed bands in light lutetium isotopes  
Mohd Faisal, Rani Devi, S.K. Khosa, G.H. Bhat and J.A. Sheikh  
Nuclear Physics A 1030 122572 (2023)
2. Microscopic study of normal deformed bands in  $^{167,169,171}\text{Lu}$   
Mohd Faisal, Rani Devi, S.K. Khosa, G.H. Bhat and J.A. Sheikh  
International Journal of Modern Physics E 8 2350041 (2023)

# ACADEMIC PORTFOLIO

## LAST 5 YEARS

- 1. Study of negative parity band structures in  $^{167}\text{Lu}$  **Mohd Faisal** and Rani Devi Proc. of DAE symposium on Nuclear Physics Vol. 64 (2019)
- 2. Study of alignments in normal deformed bands of  $^{165}\text{Lu}$  **Mohd Faisal** and Rani Devi Proc. of DAE symposium on Nuclear Physics Vol. 65 192 (2021)
- 3. Study of excitation energy spectra of  $^{153}\text{Gd}$  **Mohd Faisal** and Rani Devi Proc. of DAE symposium on Nuclear Physics Vol. 66 (2022)
- 4. Theoretical study of band structure in odd-odd  $^{168}\text{Lu}$  **Mohd Faisal** and Rani Devi Proc. of DAE symposium on Nuclear Physics Vol. 67 249 (2023)
- 5. Projected Shell Model Analysis of Positive Parity Band Structures in  $^{173}\text{Lu}$  **Mohd Faisal** and Rani Devi JK Science Congress (JKSC-2025)
- 6. Theoretical investigation of rotational bands in  $^{173}\text{Lu}$  **Mohd Faisal** and Rani Devi National Conference on Advances in Applied Physics (NCAAPS-2025)

## CORE SKILLS

Nuclear Structure Physics  
Projected Shell Model  
Quantum Mechanics & Electrodynamics  
Curriculum Development  
Student Mentoring  
Scientific Writing & Presentation

# E-YANTRA

## FACULTY TRAINING PROGRAM



ERTS Lab  
Department of Computer Science and Engineering  
Indian Institute of Technology Bombay,  
Powai, Mumbai-400 076.



eYantra

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Engineering a better tomorrow

Prof. Shivaram Kalyan Krishnan  
Principal Investigator, e-Yantra  
Associate Professor  
Department of Computer Science and Engineering  
Indian Institute of Technology Bombay



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e-Yantra is a project sponsored by MoE, Government of India, under the National Mission on Education through ICT (NMEICT).

# NON-TEACHING STAFF



**MR. ASHWANI KUMAR**

**LAB.ASSISTANT**

**YEAR OF JOINING JKHED : 2014**

**MR. PREM KUMAR**

**MTS**

**YEAR OF JOINING JKHED : 1995**



**MR. ROMESH KUMAR (RETD LAB. ASSISTANT)**



# Quantum Tunneling



# NANO



# QUANTA



# STUDENTS DETAILS

DEPT OF PHYSICS  
SKC GOVT. DEREI COLLEGE POONCH

MAJOR - SEM-5TH



98

**TANVEER TARIQ**

99

**AISHA NAZ**



100

**GHULAM NABI**

101

**PUNEET KOUR**



102

**WASEEM AKRAM**

103

**SHAIID ALI**



160

**MOHD ARSHAD**

161

**SHABAB ZAHRA  
NAQVI**



# STUDENTS DETAILS

DEPT OF PHYSICS  
SKC GOVT. DEREER COLLEGE POONCH

MINOR - SEM-5TH



104

TAHIR RIAZ

105

AKANKASHI  
SHARMA



106

IRFAN AHMED  
HAQLA



107

MOHD  
DANISH



121

MAROOF  
AHMED



141

MOHD  
NAWAZISH



# STUDENTS DETAILS

DEPT OF PHYSICS  
SKC GOVT. DEREER COLLEGE POONCH

MAJOR - SEM-3RD



103

MOHD  
MUSTAQEEM



104

USMAN LATIEF



104

MOHD ARBAZ



105

ZEESHAN KHAN



107

MUSKAN  
SHARMA



172

MOHD ZISHAN  
MAJIED

MINOR - SEM-3RD



102

GURSIMRANMEE  
T SINGH



164

MOHD  
ASAF

# STUDENTS DETAILS

DEPT OF PHYSICS  
SKC GOVT. DEREI COLLEGE POONCH

MINOR - SEM-1ST



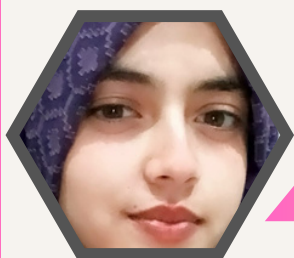
217

**KALSOOM  
FATIMA**



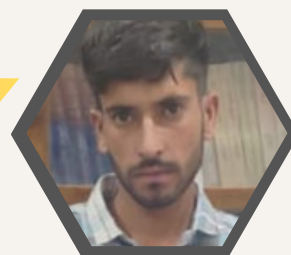
138

**FARHEEN  
AKHTER**



104

**ASMA BATOOL**



146

**BILAL AHMED**



107

**ARFAZ AHMED  
TOSEEF**



147

**AYAAZ AHMED**



$$E = m \cdot c^2$$

## NOTABLE ALUMNI



**DR. S.D. SHARMA**

**BATCH-2010\_2014**

**MSC PHYSICS FROM JAMMU UNIVERSITY  
PH.D. PHYSICS**

**RETD. PRINCIPAL JKHED (2004)**

**MR. RIZWAN AHMED KHAN**

**BATCH 2006-2009**

**MASTERS IN PHYSICS, 2012**

**CSIR-NET**

**PHD IN PROGRESS FROM CCS MEERUT**

**ASSISTANT PROFESSOR JKHED**



**MR. MOHAMMAD HAFIZ**

**BATCH 2014-2017**

**MSC PHYSICS 2019 AMU**

**MTECH MATERIAL SCIENCE &  
TECHNOLOGY 2023 AMU**

**CSIR NET PHYSICS JUNE 2022 GATE PHYSICS**

**PHD IN PHYSICS (PURSUING)-IIT MANDI**



**MR. ARUN KUMAR**

**BANK MANAGER**



**NOTABLE ALUMNI**  
**BATCH 2022-2025**

**ANANYA  
CHOUDHARY**

**ANISH SHARMA**

**FARHAN MUSHTAQ**

**TAMINA FALAK**

**TARIQ AHMED**

**MOHD ZULIFQAR**

**BATCH 2021-2024**

**HAFZA GULZAR**

**ABDULLAH  
REHMAN**

**SHAHBAZ AHMED**

**AJAZ AHMED**

**SHABNAM KOSER**

**ARSHJOT KOUR**

**SHAZIA AKHTER**

**PRABJOT SINGH**

**ZOHRA KHANAM**

**RUKSANA KOSER**

**KAJAL SHARMA**

**SOBIA KHURSHEED**

**OSSMA FAROOQ**

**HARSH RAI**

**FIRDOS ZEHRA**

**SAJAD AHMED**

**SOHAIL AHMED**

**SUMAKASHI  
SHARMA**

**NOTABLE ALUMNI**

**ZULIFQAR AHMED**

**MAHROOF AHMED**

**RUKSHAR AHMED**

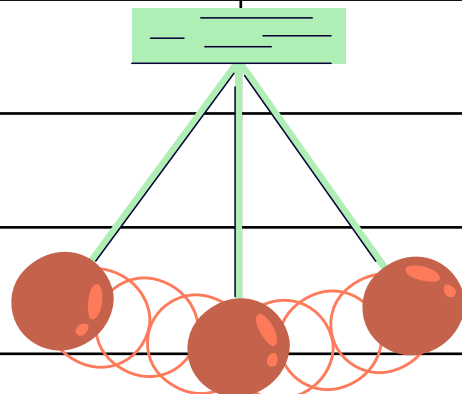
**AJAZ AHMED**

**AMANDEEP KOUR**

**RAMNEET SINGH**

# ALUMNI WITH POST GRADUATION IN PHYSICS

| Session | Name of Student          | Session | Name of Student |
|---------|--------------------------|---------|-----------------|
| 2016-17 | Gazala Shokat            | 2018-19 | Jasleen Kour    |
| 2016-17 | Arshad Ahmed             | 2018-19 | Sajid           |
| 2016-17 | Mabish Koser             | 2019-20 | Tamana Jameel   |
| 2016-17 | Mohd. Hafiz              | 2019-20 | Priyanka Jamwal |
| 2016-17 | Touseef Ahmed            | 2019-20 | Simran Kour     |
| 2016-17 | Rehana Shakir            | 2019-20 | Sameena Zafeer  |
| 2017-18 | Wagar Ahmed              | 2020-21 | Ikjot Kour      |
| 2017-18 | Aftab Ahmed              | 2020-21 | Varun Sharma    |
| 2017-18 | Roshan Asa Siddiqui      | 2020-21 | Shivangi Sharma |
| 2017-18 | Lalit Mohan Sharma       |         |                 |
| 2017-18 | Nartica Sharma           |         |                 |
| 2017-18 | Sahil Dogra              |         |                 |
| 2018-19 | Mashid Hussain Choudhary |         |                 |
| 2018-19 | Nusrat Khanam            |         |                 |





infrastructure



Lab. cum Smart classroom



Electronics Laboratory



Electronics Laboratory



Departmental colonnade for apricity

"In a universe governed by quantum principles, uncertainty isn't a barrier—it's the canvas for innovation. Embrace the superposition of 'not knowing'—that's where discovery lives."

# DEPT. INFRASTRUCTURE

The Department of Physics at SKC, GDC Poonch, is one of the college's oldest and most established departments. It is fully equipped with comprehensive infrastructure, including well-furnished classrooms, advanced laboratories, and smart classrooms. The facility also features essential support spaces such as faculty rooms, a dedicated HOD office, lab assistant rooms, specialised dark rooms, equipment stores, and a pantry.



Physics Lecture Theatre



Lab. Cum Smart Class Rooms

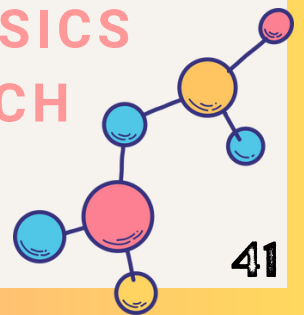
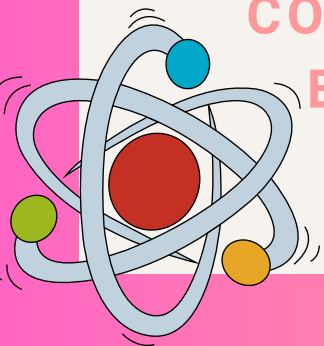
Faculty Rooms



Store Rooms 03

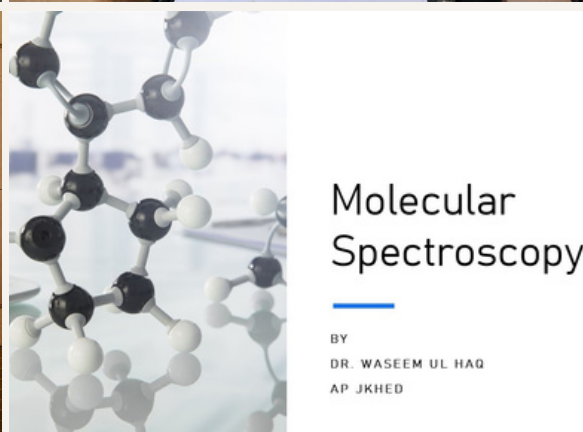
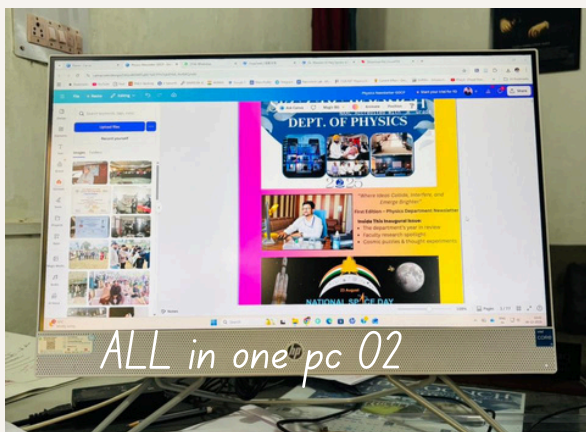
Dark Rooms 02

COMPLETE ECOSYSTEM FOR PHYSICS EDUCATION AT SKC GDC POONCH



# COMPUTER AND IT FACILITIES

Our current IT inventory for office and teaching functions comprises several key systems. For general office use, we have a number of 02 All-in-One PCs, which provide an efficient, space-saving computing solution for administrative tasks, document processing, and communications. Supporting these workstations are two networked printers, available for shared staff use, capable of handling monochrome needs

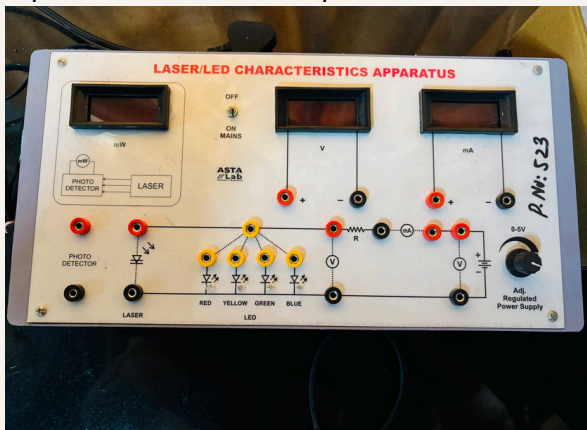


## IT EQUIPMENT INVENTORY AND DEPARTMENTAL LIBRARY

Furthermore, to enhance our educational capabilities, we have one IFPS smart board dedicated to teaching. This interactive board facilitates dynamic, multimedia-rich lessons, allowing for touch-based input and collaborative digital presentations, thereby modernizing the instructional environment.

# LAB. FACILITIES

The Department of Physics, as one of the oldest departments of the college, has a long-standing tradition of academic excellence and hands-on learning. Whether in Electronics, where students work with circuits, signal processing, and semiconductor devices; in Mechanics, with experiments on classical dynamics, properties of matter, and precision measurement; or in Optics, involving lasers, interference, diffraction, and polarization—the department ensures a robust practical foundation.



## RUNNING THE TESTS, PROVING THE CONCEPTS. HANDS-ON LEARNING IN ACTION AT OUR PHYSICS LAB

It takes great pride in being fully enriched with modern and comprehensive experimental facilities tailored for undergraduate students. These well-equipped laboratories enable students to bridge theoretical concepts with real-world applications, fostering critical thinking and technical skills. The department remains committed to maintaining and upgrading its facilities, ensuring every physics undergraduate gains a thorough, immersive, and innovative experimental education.

# PROJECTS

# *Initiatives*



"Innovation distinguishes between a leader and a follower"  
- Steve Jobs.



## ABOUT

e-Yantra is a robotics outreach program funded by the Ministry of Education and hosted at IIT Bombay. The goal is to harness the talent of young engineers to solve problems using technology across a variety of domains such as: agriculture, manufacturing, defence, home, smart-city maintenance and service industries.

## E-YANTRA LAB SET-UP INITIATIVE (ELSI)

*eLSI is an initiative to establish a culture of "Project Based Learning" through an e-Yantra Lab embedded in a college. We do this by training teachers and students through various e-Yantra initiatives in technology skills and in using these skills to solve real problems using technology.*

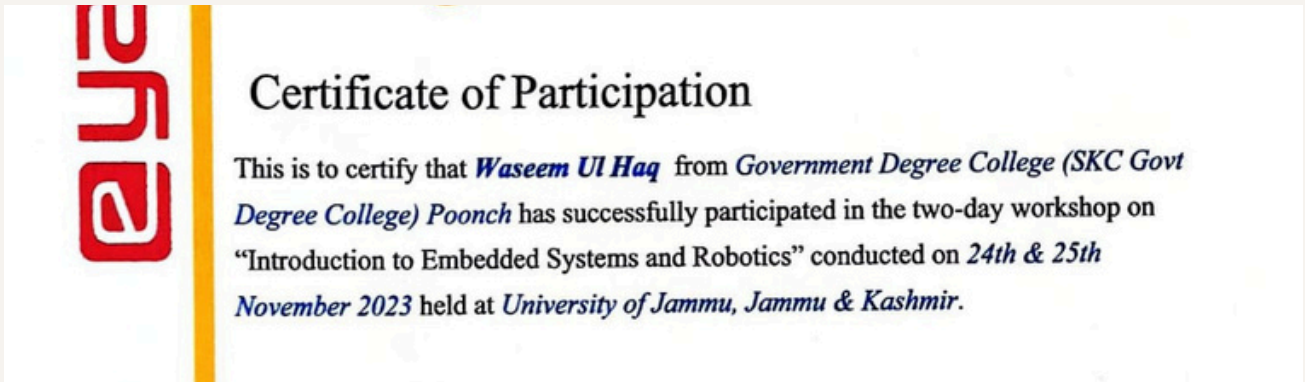
*A team of teachers from **SKC GDC Poonch** has been trained during workshops held in 2023 & 2025 to have hands on experience in Embedded Systems theory, Microcontroller programming, Software Foundation, Innovation & Entrepreneurship, etc. Also communicated **LoI** to IIT Bombay for Lab Setup.*



[LEARN MORE:](#)

# E-YANTRA FACULTY TRAINING PROGRAM

**24 & 25 November 2023**



## E-yantra Committee

| Name               | Department           | Designation  |
|--------------------|----------------------|--------------|
| Dr. Waseem Ul Haq  | Physics              | Co-ordinator |
| Prof. Waseem Akram | Computer Application | Member       |
| Prof. Masood Ahmed | Mathematics          | Member       |
| Prof. Mohd Faisal  | Physics              | Member       |



**Committee has also nominated 30 students for their training in e-yantra initiative.**

# E-LAUNCHING OF ANNUAL CALENDAR BY BY PHYSICS DEPARTMENT

January 2025



The Department of Physics celebrated a significant milestone today with the successful launch of its much-anticipated yearly departmental calendar. The event was graced by the presence of Dr. Jasbir Singh, who attended as the Chief Guest.

The ceremony commenced with a warm welcome address, after which Dr. Jasbir Singh formally unveiled the new calendar to the faculty and students. In his address, He lauded the initiative, highlighting its importance in fostering a sense of community and pride within the department. He specifically commended the Head of the Department of Physics, Dr. Waseem Ul Haq, for his visionary leadership. Dr. Singh praised Dr. Haq for single-handedly designing the calendar and for taking the proactive initiative to bring the project to fruition.



**The new calendar is expected to serve as a key organizational tool for the department while also showcasing its academic spirit and events for the coming year.**

# SKC GDC POONCH

NAAC Accredited With "A" Grade

## DEPT. OF PHYSICS



2025

**01 January**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 1   | 2   | 3   | 4   |
| 5   | 6   | 7   | 8   | 9   | 10  | 11  |
| 12  | 13  | 14  | 15  | 16  | 17  | 18  |
| 19  | 20  | 21  | 22  | 23  | 24  | 25  |
| 26  | 27  | 28  | 29  | 30  | 31  |     |

**02 February**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  |     |

**03 March**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  |     |     |     |     |     |

**04 April**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
|     | 2   | 3   | 4   | 5   | 6   | 7   |
| 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 15  | 16  | 17  | 18  | 19  | 20  | 21  |
| 22  | 23  | 24  | 25  | 26  | 27  | 28  |
| 29  | 30  |     |     |     |     |     |

**05 May**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 1   | 2   | 3   |
| 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 11  | 12  | 13  | 14  | 15  | 16  | 17  |
| 18  | 19  | 20  | 21  | 22  | 23  | 24  |
| 25  | 26  | 27  | 28  | 29  | 30  | 31  |

**06 June**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     | 1   | 2   | 3   | 4   | 5   |
| 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  | 31  |     |     |

**07 July**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  |     |     |     |     |     |

**08 August**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
|     | 2   | 3   | 4   | 5   | 6   | 7   |
| 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 15  | 16  | 17  | 18  | 19  | 20  | 21  |
| 22  | 23  | 24  | 25  | 26  | 27  | 28  |
| 29  | 30  | 31  |     |     |     |     |

**09 September**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |

**10 October**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 1   | 2   | 3   | 4   |
| 5   | 6   | 7   | 8   | 9   | 10  | 11  |
| 12  | 13  | 14  | 15  | 16  | 17  | 18  |
| 19  | 20  | 21  | 22  | 23  | 24  | 25  |
| 26  | 27  | 28  | 29  | 30  | 31  |     |

**11 November**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  |     |     |     |     |     |     |

**12 December**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |
| 30  | 31  |     |     |     |     |     |

**Holidays (JK-UT):**

|                               |            |
|-------------------------------|------------|
| Guru Gobind Ji's Birthday     | 06-01-2025 |
| Republic Day                  | 26-01-2025 |
| Shab-e-Miraj*                 | 27-01-2025 |
| Mahashivratri                 | 26-02-2025 |
| Nauroz*                       | 21-03-2025 |
| Shab-i-Qadr*                  | 27-03-2025 |
| Jumat-ul-Vida*                | 28-03-2025 |
| 1st Navratra                  | 30-03-2025 |
| Eid-ul-Fitr*                  | 31-03-2025 |
| Ramanavami                    | 06-04-2025 |
| Baisakhi                      | 13-04-2025 |
| Birthday of Dr. B.R. Ambedkar | 14-04-2025 |
| Buddha Purnima                | 12-05-2025 |
| Eid-ul-Azha*                  | 07-06-2025 |

**Holidays (JK-UT):**

|                                       |            |
|---------------------------------------|------------|
| Guru Hargobind Ji's Birthday          | 05-07-2025 |
| Ashoora*                              | 06-07-2025 |
| Independence Day                      | 15-08-2025 |
| Janamashtami                          | 16-08-2025 |
| Eid-i-Milad-ul-Nabi*                  | 05-09-2025 |
| Friday following Eid-i-Milad-ul-Nabi* | 12-09-2025 |
| Birthday of Maharaja Hari Singh Ji    | 23-09-2025 |
| Mahanavami                            | 01-10-2025 |
| Dussehra                              | 02-10-2025 |
| Mahatma Gandhi's Birthday             | 02-10-2025 |
| Diwali                                | 21-10-2025 |
| Accession Day                         | 26-10-2025 |
| Guru Nanak Dev Ji's Birthday          | 05-11-2025 |
| Christmas Day                         | 25-12-2025 |

**Provincial Holidays (Jammu Province):**

|                               |            |
|-------------------------------|------------|
| Lohri                         | 13-01-2025 |
| Shri Guru Ravi Das's Birthday | 12-02-2025 |
| Holi                          | 14-03-2025 |

**Provincial Holidays (Kashmir Province):**

|                               |            |
|-------------------------------|------------|
| Friday following Shab-i-Miraj | 31-01-2025 |
| Urs Shah-i-Hamdan Sahib*      | 03-06-2025 |
| Mela Khir Bhawani             | 03-06-2025 |
| Urs Sheikh Noor-ud-Din Sahib* | 18-10-2025 |

**Restricted Holidays:**

|                                    |            |
|------------------------------------|------------|
| Parshuram Jayanti (Jammu Province) | 29-04-2025 |
| Kabir Jayanti (Jammu Province)     | 11-06-2025 |
| Martyr's Day of Guru Arjun Dev Ji  | 16-06-2025 |
| Raskha Bandhan                     | 09-08-2025 |

Best regards: Prof. Waseem Ul Haq, HoD Physics, SKC GDC Poonch



# NEWSLETTER

# PHYSICS

Vol.1/2025/PHY/GDCP

08-12-2025

SKC GDC Poonch

Monday

## ENRICHING PHYSICS & CAREER OPPORTUNITIES

### Backward Linkages; Motivational-cum-Enrollment Drive was Successfully Organized

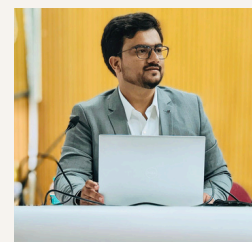


A motivational and enrollment drive was successfully organized by SCS Government Degree College (GDC), Mendhar, in collaboration with SKC GDC, Poonch, and the School Education Department. The event, led by Dr. Sarshad Hussain, Coordinator of IQAC at GDC Mendhar, aimed to inspire students to pursue higher education in key subjects such as Physics, Chemistry, Mathematics, Computer Applications, Economics, and Arabic. Faculty members from the institution joined the effort, with special collaboration from Dr. Waseem Ul Haq, Head of the Physics Department at SKC GDC Poonch. Students and staff from the Girls and Boys Higher Secondary Schools were brought together in a focused initiative to enhance enrollment, particularly in Physics. Dr. Sarshad addressed the gathering, emphasizing the importance of these subjects and distributing QR codes and links to subject-specific WhatsApp helpdesk groups to ensure ongoing support and communication with interested students. Dr. Waseem Ul Haq then led an engaging and informative session that explored captivating aspects of physics, linking theoretical knowledge to real-world applications and diverse career opportunities. His interactive presentation, which covered fields ranging from space exploration to renewable energy, enthralled the students.

#### Enthusiastic Participation:

The attendees participated with great enthusiasm, actively joining discussions and posing thoughtful questions. The event not only expanded the students' understanding of physics but also inspired many to consider it as a future academic and career path. The event not only expanded their understanding of physics but also inspired many to consider a future in the subject.

The college administration extends its sincere gratitude to the principals of both higher secondary schools for making necessary arrangements and made this event a successful feat. Faculty members of the both colleges are grateful to Principals Dr. Mohammad Azam and Dr. Jasbir Singh for accepting this proposal and generously allowing them to organize this drive through backward linkages.



49

Understand the "Why" behind Everything.

# Dept. of Physics

## SKC Govt. Degree College Poonch

### ENRICHING PHYSICS & CAREER OPPORTUNITIES



*Ph.D. Physics IIT Delhi*

#### 🎯 AIMS & OBJECTIVES

- To develop **critical thinking** and **problem-solving** skills.
- To master the fundamental laws governing matter, **energy, space, and time**.
- To prepare a strong foundation for **innovative technologies** and **scientific research**.

## Backward Linkages; Motivational-cum-Enrollment Drive



### SCOPE & OPPORTUNITIES

- In Higher Education & Research
- Space Science | Astrophysics | Nanotechnology
- Quantum Computing | Renewable Energy | Geophysics
- Defense (DRDO, ISRO, BARC) | Engineering (Core & Tech)
- Data Science & Finance | Academia & Teaching
- Entrepreneurship: Start your own tech venture!

*Physics isn't just a subject; it's the toolkit to build the future.*

Confused about your future?

- Syllabus & Projects
- Career Pathways
- College & Exam Guidance
- Subject Combinations

We are here to help!



**WhatsApp Group Link**



7006872078



7006492308



phygdcp@gmail.com



gdcpoonch.co.in

50

<https://chat.whatsapp.com/CWya7DIFCU6DhbY0c16Xqc?mode=hqrt2>

# NEWSLETTER

# PHYSICS

Vol.1/2025/PHY/GDCP

10-12-2025

SKC GDC Poonch

Wednesday

## **ENRICHING PHYSICS & CAREER OPPORTUNITIES**

# **Backward Linkages; Motivational-cum-Enrollment Drive was Successfully Organized**



A motivational and enrollment drive was successfully organized by Department of Physics SKC GDC, Poonch, with the School Education Department. The event, led by Dr. Waseem Ul Haq Head Department of Physics, aimed to inspire students to pursue higher education in key subjects such as Physics. Prof. Mohd Faisal, faculty members from the department, joined the event, which was organized in collaboration with Boys Higher Secondary Schools Poonch. The initiative focused on enhancing enrollment, particularly in Physics. Dr. Waseem Ul Haq addressed the students, emphasizing the importance of the subject and distributing QR codes and links to a subject-specific WhatsApp helpdesk group to ensure ongoing support and communication with interested students. He then led an engaging and informative session that explored captivating aspects of physics, linking theoretical knowledge to real-world applications and diverse career opportunities. Prof. Mohd Faisal delivered an interactive presentation, which covered fields ranging from space exploration to renewable energy, and enthralled the students. He also emphasized the career opportunities and scope of the subject in the modern era.

### **Enthusiastic Participation:**

The attendees participated with great enthusiasm, actively joining discussions and posing thoughtful questions. The event not only expanded the students' understanding of physics but also inspired many to consider it as a future academic and career path. The college administration extends its sincere gratitude to the Principal of Boys' Higher Secondary School, Ms Rupiender Kour, Mr. Alyas Ahmed, Ms. Pryanka Jammwal and other school staff members made the necessary arrangements to make this event a successful feat.

Faculty members of the Physics Department SKC GDC Poonch are extremely grateful to their Principal, Dr. Jasbir Singh, for accepting this proposal and generously encouraging them to organize this drive through backward linkages.



# NEWSLETTER

# PHYSICS

Vol.1/2025/PHY/GDCP

11-12-2025

Physics, SKC GDC Poonch

Thursday

**Govt. Higher Secondary School, Chandak Poonch**

**ENRICHING PHYSICS & CAREER OPPORTUNITIES**

**Backward Linkages; Motivational-cum-Enrollment Drive**



The Department of Physics at SKC GDC Poonch successfully organized an enrollment drive and career development program in collaboration with the Government Higher Secondary School (HSS) Chandak. Conducted under the able leadership of Mr. Amil Hussain, Principal of HSS Chandak, the event aimed to inspire and guide science students towards higher education and diverse career paths in Physics. The drive was led by Dr. Waseem Ul Haq, Head of the Physics Department at SKC GDC Poonch, who addressed the assembled students with a focus on the evolving intersection of Physics with modern technology. He motivated the students to focus on the era of Artificial Intelligence and Machine Learning, urging them to equip themselves with a strong foundation in Physics to leverage these advancements.



In his talk, he provided a comprehensive vision of advanced career opportunities available to Physics graduates, spanning fields such as Academics, Research, Defence, Space, Entrepreneurship, Start-ups, Innovation, and Technical Development. Prof. Mohd Faisal, Faculty member of the Physics Department, further deliberated and encouraged the students to choose Physics as a main subject during their graduation, highlighting its intellectual merits and professional versatility.



The event was skillfully moderated by Mr. Nazarat Fareed, Vice Principal of HSS Chandak, and was attended by senior staff members from the school. During the session, students were guided to join the Physics Counselling Cell of SKC GDC Poonch through a dedicated WhatsApp group for ongoing mentorship and admission guidance.

Principal Amil Hussain applauded the initiative undertaken by the Physics Department of SKC GDC Poonch, recognizing its value for student development. All stakeholders involved in the event expressed their extreme gratitude to Dr. Jasbir Singh, Principal of SKC GDC Poonch, for his constant encouragement and unwavering support, which made this impactful event.



# SCS GOVT DEGREE COLLEGE MENDHAR

13-12-2025

IQAC GDC Mendhar

Saturday

**GHSS, Harni, & ST Francis School Mendhar**

**ENRICHING PHYSICS & CAREER OPPORTUNITIES**

**Backward Linkages; Motivational-cum-Enrollment Drive**

The Internal Quality Assurance Cell (IQAC) of Government Degree College (GDC), Mendhar, successfully organised an enrolment drive and career development program in collaboration with Government Higher Secondary School (HSS) Harni and ST Francis School, Mendhar. Conducted under the able leadership of Dr. Sarshad Hussain, Coordinator of IQAC GDC Mendhar, the event aimed to guide senior secondary students towards higher education. The drive featured a keynote address by Dr. Waseem Ul Haq, Head of the Physics Department at S.K.C. College GDC Poonch, who inspired science students to focus on the evolving era of Artificial Intelligence and Machine Learning. He outlined advanced career opportunities stemming from physics in diverse fields such as academics, research, defence, space, entrepreneurship, start-ups, innovation, and development. Faculty members from GDC Mendhar, including Dr. Basharat Shien (HoD Arabic), Dr. Rustam Abbas (Mathematics), and Dr. Sharbat, also deliberated and motivated students to pursue subjects like Mathematics, Chemistry, Arabic, Economics, and Physics at the graduation level.

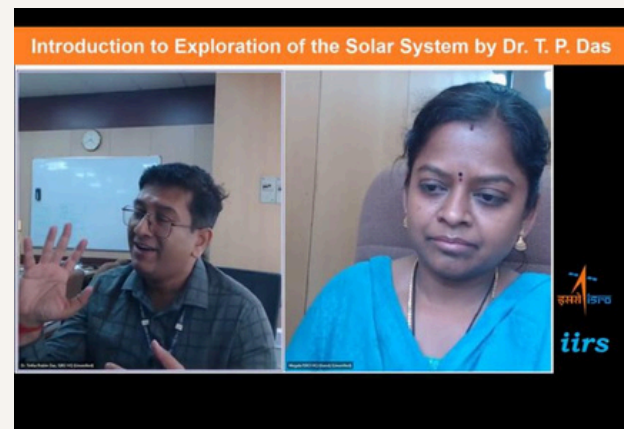


The event, attended by school staff and students, provided practical guidance, with students being directed to join subject-specific counselling cells via dedicated WhatsApp groups for continued support. The Principal of the host institutions, Dr. Mohd Azam, applauded the initiative and extended thanks to Dr. Jasbir Singh for facilitating the participation of Dr. Waseem Ul Haq, whose insights greatly enriched the program.

# CERTIFICATE PROGRAM ON EXPLORATION OF SOLAR SYSTEM : COLLABORATION BETWEEN DEPT. OF PHYSICS SKC GDC POONCH AND ISRO



Collaborative effort with the Indian Space Research Organisation (ISRO) to introduce a certificate program focused on the "Exploration of the Solar System." The program aims to provide students with a comprehensive understanding of space exploration, with a particular focus on our solar system. Nearly 20 students from the Department of Physics have enrolled in this two-week certificate program scheduled from 24<sup>th</sup> April to 10<sup>th</sup> of May-2024.



हमारी ISRO

FOR THE INDIAN ACADEMIA, OFFERING POST-GRADUATE / UNDER-GRADUATE COURSES ON PHYSICAL SCIENCE AND TECHNOLOGY

START-2024

SPACE SCIENCE & TECHNOLOGY AWARENESS TRAINING (Online mode)

Deadline for sending Expression of Interest to host START-2024: April 2, 2024

MORE THAN 20 HOURS OF LECTURES BY NATIONAL EXPERTS, ISRO PROFESSIONALS, SCIENTIFIC INTERACTIONS, EVALUATION...

# STUDENTS ACHIVEMENTS

SCS GDC Mendhar successfully organized an intercollegiate debate on 1st December 2024 to mark **World AIDS Day**. The event saw active participation from students across various colleges who debated themes of awareness, prevention, and societal responsibility.

**Mr. Usman Latief** from the Department of Physics, SCS GDC Mendhar, delivered an outstanding performance. He was adjudged the winner and secured the First Position for his insightful and articulate arguments.



## WORLD AIDS DAY 2024 AT SCS GDC MENDHAR

On the same day, **Dr. Waseem Ul Haq** of the college accompanied the students and also served as a jury member for the assessment of the poster-making competition held alongside the debate. The event provided a meaningful platform for student engagement on a critical global health issue.

# STUDENT'S INTERNSHIP 2024

As per the recommendations of NEP 2020, Internships for 5th-semester Physics students at **Baba Ghulam Shah Badshah University, Rajouri**, during the 2024 session, provide a crucial bridge between theoretical knowledge and practical application. Conducted in research labs, educational institutions, or relevant industries, these internships immerse students in real-world scientific environments.

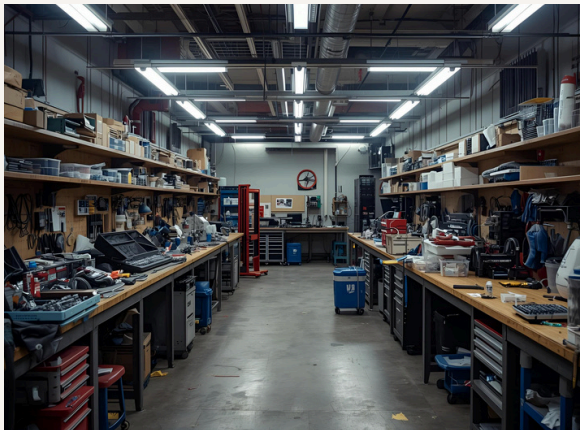
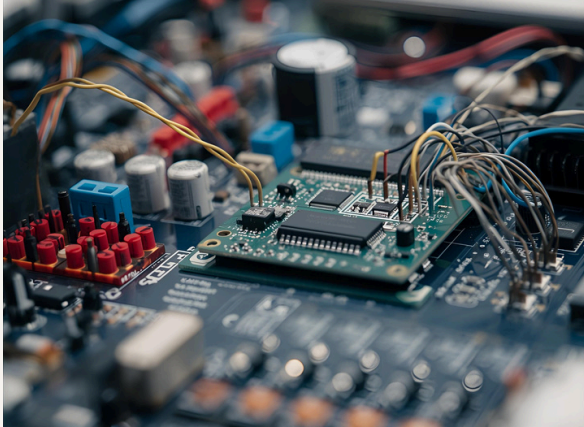
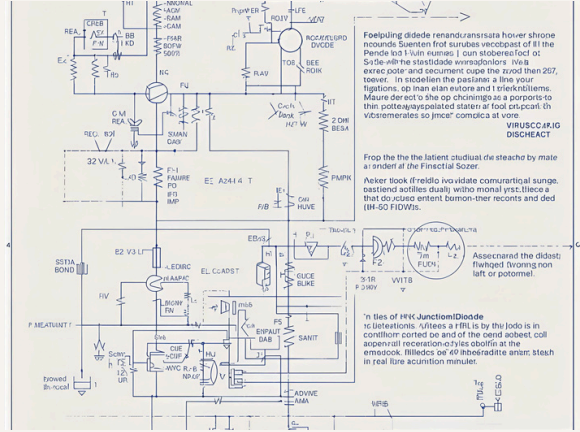
|   |   |
|---|---|
|  <p><b>DEPARTMENT OF PHYSICS</b><br/><b>B.G.S.B UNIVERSITY RAJOURI (J&amp;K)</b><br/><i>in collaboration with</i><br/><b>DEPARTMENT OF PHYSICS</b><br/><b>SKC GOVT. COLLEGE POONCH</b></p> <p><i>Certificate</i></p> <p>This is to certify that Ms. <b>Anania Choudhary</b>, Roll No. <b>66</b>, Student of B.Sc Semester Vth of SKC Govt. Degree College Poonch, with Physics as a Major subject in Four Year Undergraduate Programme (FYUGP), has attended a "Summer Internship Course" (Code: USEPYT-506) w.e.f. 01-11-2024 to 14-11-2024 during the academic session 2024-25 as per the NEP-2020 curriculum of the University of Jammu. He/She has successfully completed the required No. of contact hours/Days at "Department of Physics Baba Ghulam Shah Badshah University Rajouri (J&amp;K)".</p> <p>Prof. Waseem Ul Haq<br/>Head Dept. Of Physics<br/>SKC GDC Poonch</p> <p>Dr. Feroz Ahmad Mir<br/>Head Dept. Of Physics<br/>B.G.S.B University Rajouri<br/>Head, Department of Physic--<br/>BGSBU Rajouri</p> <p>Dr. Jasbir Singh<br/>Principal<br/>SKC GDC Poonch</p> |  <p><b>DEPARTMENT OF PHYSICS</b><br/><b>B.G.S.B UNIVERSITY RAJOURI (J&amp;K)</b><br/><i>in collaboration with</i><br/><b>DEPARTMENT OF PHYSICS</b><br/><b>SKC GOVT. COLLEGE POONCH</b></p> <p><i>Certificate</i></p> <p>This is to certify that Mr. <b>Anish Sharma</b>, Roll No. <b>65</b>, Student of B.Sc Semester Vth of SKC Govt. Degree College Poonch, with Physics as a Major subject in Four Year Undergraduate Programme (FYUGP), has attended a "Summer Internship Course" (Code: USEPYT-506) w.e.f. 01-11-2024 to 14-11-2024 during the academic session 2024-25 as per the NEP-2020 curriculum of the University of Jammu. He/She has successfully completed the required No. of contact hours/Days at "Department of Physics Baba Ghulam Shah Badshah University Rajouri (J&amp;K)".</p> <p>Prof. Waseem Ul Haq<br/>Head Dept. Of Physics<br/>SKC GDC Poonch</p> <p>Dr. Feroz Ahmad Mir<br/>Head Dept. Of Physics<br/>B.G.S.B University Rajouri<br/>Head, Department of Physic--<br/>BGSBU Rajouri</p> <p>Dr. Jasbir Singh<br/>Principal<br/>SKC GDC Poonch</p>    |
|  <p><b>DEPARTMENT OF PHYSICS</b><br/><b>B.G.S.B UNIVERSITY RAJOURI (J&amp;K)</b><br/><i>in collaboration with</i><br/><b>DEPARTMENT OF PHYSICS</b><br/><b>SKC GOVT. COLLEGE POONCH</b></p> <p><i>Certificate</i></p> <p>This is to certify that Ms. <b>Tamina Falak</b>, Roll No. <b>64</b>, Student of B.Sc Semester Vth of SKC Govt. Degree College Poonch, with Physics as a Major subject in Four Year Undergraduate Programme (FYUGP), has attended a "Summer Internship Course" (Code: USEPYT-506) w.e.f. 01-11-2024 to 14-11-2024 during the academic session 2024-25 as per the NEP-2020 curriculum of the University of Jammu. He/She has successfully completed the required No. of contact hours/Days at "Department of Physics Baba Ghulam Shah Badshah University Rajouri (J&amp;K)".</p> <p>Prof. Waseem Ul Haq<br/>Head Dept. Of Physics<br/>SKC GDC Poonch</p> <p>Dr. Feroz Ahmad Mir<br/>Head Dept. Of Physics<br/>B.G.S.B University Rajouri<br/>Head, Department of Physic--<br/>BGSBU Rajouri</p> <p>Dr. Jasbir Singh<br/>Principal<br/>SKC GDC Poonch</p>    |  <p><b>DEPARTMENT OF PHYSICS</b><br/><b>B.G.S.B UNIVERSITY RAJOURI (J&amp;K)</b><br/><i>in collaboration with</i><br/><b>DEPARTMENT OF PHYSICS</b><br/><b>SKC GOVT. COLLEGE POONCH</b></p> <p><i>Certificate</i></p> <p>This is to certify that Mr. <b>Farhan Mushtaq</b>, Roll No. <b>63</b>, Student of B.Sc Semester Vth of SKC Govt. Degree College Poonch, with Physics as a Major subject in Four Year Undergraduate Programme (FYUGP), has attended a "Summer Internship Course" (Code: USEPYT-506) w.e.f. 01-11-2024 to 14-11-2024 during the academic session 2024-25 as per the NEP-2020 curriculum of the University of Jammu. He/She has successfully completed the required No. of contact hours/Days at "Department of Physics Baba Ghulam Shah Badshah University Rajouri (J&amp;K)".</p> <p>Prof. Waseem Ul Haq<br/>Head Dept. Of Physics<br/>SKC GDC Poonch</p> <p>Dr. Feroz Ahmad Mir<br/>Head Dept. Of Physics<br/>B.G.S.B University Rajouri<br/>Head, Department of Physic--<br/>BGSBU Rajouri</p> <p>Dr. Jasbir Singh<br/>Principal<br/>SKC GDC Poonch</p> |
|  <p><b>DEPARTMENT OF PHYSICS</b><br/><b>B.G.S.B UNIVERSITY RAJOURI (J&amp;K)</b><br/><i>in collaboration with</i><br/><b>DEPARTMENT OF PHYSICS</b><br/><b>SKC GOVT. COLLEGE POONCH</b></p> <p><i>Certificate</i></p> <p>This is to certify that Mr. <b>Tariq Ahmed</b>, Roll No. <b>62</b> Student of B.Sc Semester Vth of SKC Govt. Degree College Poonch, with Physics as a Major subject in Four Year Undergraduate Programme (FYUGP), has attended a "Summer Internship Course" (Code: USEPYT-506) w.e.f. 01-11-2024 to 14-11-2024 during the academic session 2024-25 as per the NEP-2020 curriculum of the University of Jammu. He/She has successfully completed the required No. of contact hours/Days at "Department of Physics Baba Ghulam Shah Badshah University Rajouri (J&amp;K)".</p> <p>Prof. Waseem Ul Haq<br/>Head Dept. Of Physics<br/>SKC GDC Poonch</p> <p>Dr. Feroz Ahmad Mir<br/>Head Dept. Of Physics<br/>B.G.S.B University Rajouri<br/>Head, Department of Physic--<br/>BGSBU Rajouri</p> <p>Dr. Jasbir Singh<br/>Principal<br/>SKC GDC Poonch</p>     |   |

## CERTIFICATES OF 05 STUDENT OF PHYSICS MAJOR UNDERGONE INTERNSHIP AT BGSBU RAJOURI

This exposure is of paramount importance as it not only solidifies their academic learning but also sharpens essential professional skills like problem-solving, technical reporting, and collaborative work. Ultimately, such internships prepare students for higher studies and diverse career paths, fostering innovation and making them industry-ready professionals, thereby enhancing the university's commitment to experiential and impactful education.

# STUDENT'S INTERNSHIP 2025

As per the recommendations of NEP 2020, Internships for 5th-semester Physics students at **ITI Poonch and Polytechnic College Poonch**, during the 2025 session, provide a crucial bridge between theoretical knowledge and practical application. Conducted in research labs, educational institutions, or relevant industries, these internships immerse students in real-world scientific environments.

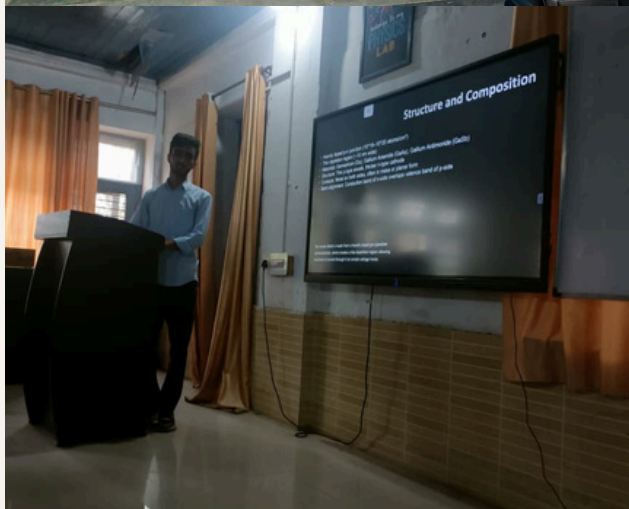
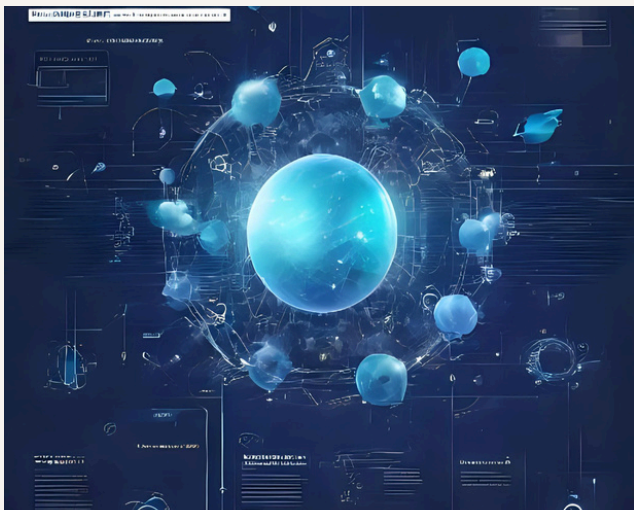


## CERTIFICATES OF 08 STUDENT OF PHYSICS MAJOR UNDERGONE INTERNSHIP AT ITI POONCH

This exposure is of paramount importance as it not only solidifies their academic learning but also sharpens essential professional skills like problem-solving, technical reporting, and collaborative work. Ultimately, such internships prepare students for higher studies and diverse career paths, fostering innovation and making them industry-ready professionals, thereby enhancing the university's commitment to experiential and impactful education.

# STUDENT SEMINARS

We conduct frequent student seminars and tutorials form a dynamic cornerstone of an interactive academic environment. By regularly presenting and discussing topics, students move beyond passive absorption to active engagement with the material. These sessions cultivate critical skills such as public speaking, collaborative problem-solving, and the ability to construct and defend arguments.



**STUDENTS SEMINARS AND TUTORIAL IN THE DEPT OF PHYSICS SKC GDC POONCH**

# SYLLABUS

## Courses Prescribed For Four Year Undergraduate Programme in Physics under CBCS as per National Education Policy-2020

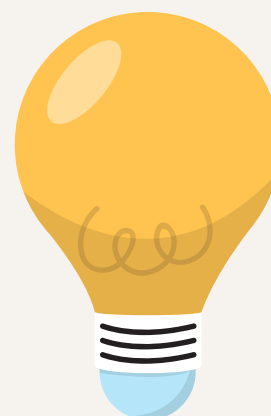
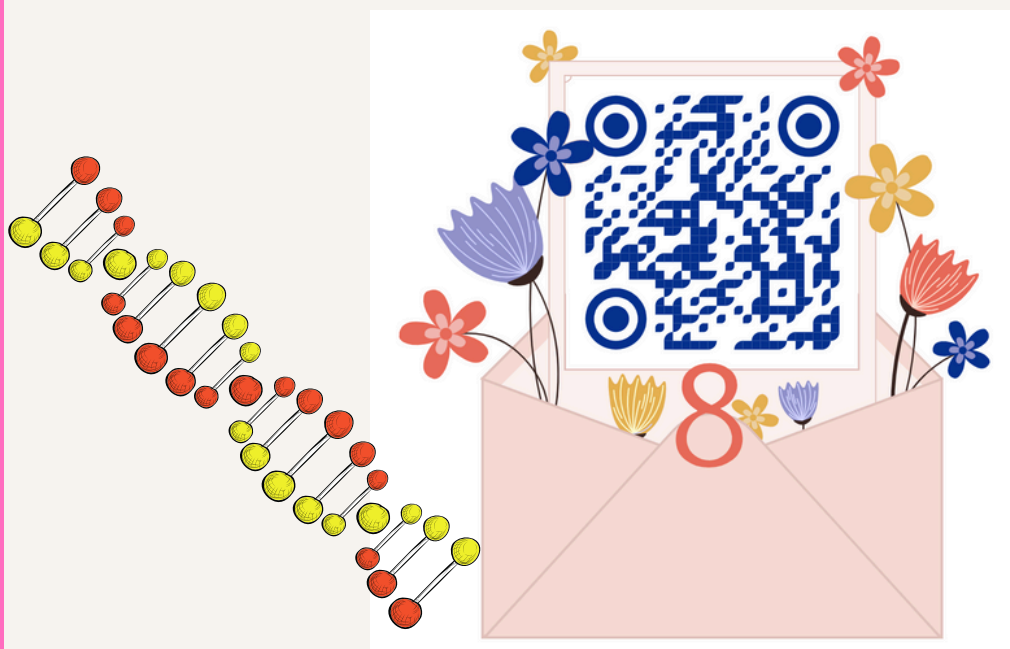
| Semester | Course No | Course Title                           | Credits  | Nature of Course  |
|----------|-----------|--|----------|-------------------|
| I        | UMJPYT101 | Mechanics                              | 3Th + 1P | Major             |
| I        | UMIPYT102 | Kinematics                             | 3Th + 1P | Minor             |
| I        | UMDPYT103 | Physics in Daily Life                  | 3        | Multidisciplinary |
| I        | USEPYT104 | Physics Lab Skills                     | 2        | Skill Enhancement |
| II       | UMJPYT201 | Electrostatics and Magnetism           | 3Th + 1P | Major             |
| II       | UMIPYT202 | Electromagnetism                       | 3Th + 1P | Minor             |
| II       | UMDPYT203 | Renewable Energy and Energy Harvesting | 3        | Multidisciplinary |
| II       | USEPYT204 | Physics Workshop Skills                | 2        | Skill Enhancement |
| III      | UMJPYT301 | Electronics-I                          | 3Th + 1P | Major             |
| III      | UMJPYT302 | Heat and Thermodynamics                | 3Th + 1P | Major             |
| III      | UMIPYT303 | Basic Electronics                      | 3Th + 1P | Minor             |
| III      | UMDPYT304 | Fundamentals of Modern Physics         | 3        | Multidisciplinary |
| III      | USEPYT305 | Photography and Video – Audiography    | 2        | Skill Enhancement |
| IV       | UMJPYT401 | Electronics-II                         | 3Th + 1P | Major             |
| IV       | UMJPYT402 | Mathematical Physics -I                | 3Th + 1T | Major             |
| IV       | UMJPYT403 | Atomic Physics                         | 3Th + 1T | Major             |
| IV       | UMJPYT404 | Waves and Optics                       | 3Th + 1P | Major             |
| IV       | UMIPYT405 | Optics                                 | 3Th + 1P | Minor             |

# SYLLABUS

**Courses Prescribed For Four Year Undergraduate Programme in Physics  
under CBCS as per National Education Policy-2020**

| Semester | Course No | Course Title                       | Credits  | Nature of Course  |
|----------|-----------|------------------------------------|----------|-------------------|
| V        | UMJPYT501 | Relativity                         | 2        | Major             |
| V        | UMJPYT502 | Mathematical Physics -II           | 3Th + 1T | Major             |
| V        | UMJPYT503 | Quantum Mechanics -I               | 3Th + 1T | Major             |
| V        | UMJPYT504 | Molecular Physics                  | 3Th + 1P | Major             |
| V        | UMIPYT505 | Atomic and Molecular Physics       | 3Th + 1P | Minor             |
| V        | USEPYT506 | Summer Internship                  | 2        | Skill enhancement |
| VI       | UMJPYT601 | Statistical Mechanics              | 3Th + 1P | Major             |
| VI       | UMJPYT602 | Laser Physics and Fibre Optics     | 3Th + 1P | Major             |
| VI       | UMJPYT603 | Basics of Condensed matter physics | 3Th + 1P | Major             |
| VI       | UMJPYT604 | Fundamental of nuclear Physics     | 3Th + 1T | Major             |
| VI       | UMIPYT605 | Laser Physics                      | 3Th + 1P | Minor             |

**SCAN HERE TO DOWNLOAD THE SYLLABUS FROM THE  
WEBSITE OF UNIVERSITY OF JAMMU**



## NUMBER OF PHYSICS BOOKS AVAILABLE IN THE LIBRARY/DEPARTMENT

| Category                  | Number of Books(Library) | Number of Books(Department ) |
|---------------------------|--------------------------|------------------------------|
| Basic Physics             | 731                      | 50                           |
| Applied Physics           | 288                      |                              |
| Modern Physics            | 226                      |                              |
| Electricity & Electronics | 191                      |                              |
| Fluid mechanics           | 7                        |                              |
| Magnetism                 | 5                        |                              |
| <b>Total</b>              | 1448                     | 50                           |



# DEPARTMENTAL ACTIVITIES

## SKC GDC POONCH

NAAC ACCREDITED "A" GRADE

### DEPARTMENT OF PHYSICS

### National Space Day-2024



Chief Patron



**Shri Alok Kumar (IRS)**

Principal Secretary to  
Government, Higher  
Education Department,  
J&K UT

Patron



**Prof. (Dr.) Sheikh Ajaz  
Bashir**

Director Colleges Higher  
Education Department  
J&K-UT

## COLLOQUIUM:

"Touching Lives while Touching  
the Moon: India's Space Saga"

ALL ARE CORDIALLY INVITED IN  
NATIONAL SEMINAR (HYBRID MODE)

**FRIDAY, 11:00 AM 23 AUGUST 2024**

**IN DEPT. OF PHYSICS**

Co-Patron



**Prof. (Dr.) Jasbir Singh**

Principal  
SKC GDC Poonch

Chief Guest



**Prof. (Dr.) S.D. Sharma**

Retd. Principal  
JKHED

Keynote Speakers



**Prof. Joginder Singh**

AP Physics  
PG College Rajouri



**Dr. Arti Bhardwaj**

Ph.D. CSIR-NPL  
New Delhi

Convener



**Waseem Ul Haq**

HoD Physics  
SKC GDC Poonch

Coordinator



**Imtiaz Ahmed**

HoD Env Science  
SKC GDC Poonch



Registration Link: <https://forms.gle/epd76yh2tkxb9rKo6>

# DEPARTMENTAL ACTIVITIES

## Advisory Committee

- Dr. Aurangzeb Anjum Co-Ordinator IQAC & HOD Zoology
- Prof. Ghulam Abbas, HOD Botany
- Prof. Assudallah Khan HOD Chemistry.

## Organizing Committee

- Dr. Syed Wajahat Hussain
- Dr. Loveleen Kaur Kesar
- Dr. Shamim Ahmed Banday
- Prof. Tehseen Abas Khan
- Dr. Mohd Akram
- Prof. Mohd Anwar
- Prof. Mohd Riaz
- Dr. Ajaz Ahmed
- Dr. Mussurat Jabeen
- Dr. Khalil Ahmed
- Dr. Imtiaz Hussain Shah
- Dr. Amjed Ali
- Dr. Yougish Kumar
- Dr. Tabbassam Naz
- Dr. Nawaz Ahmed
- Prof. Asrar Ahmed
- Prof. Nusrat Koser
- Prof. Mohd Razaq
- Prof. Afia Zaman
- Prof. Mohd Alyas
- Prof. Mohd Basharat
- Dr. Rajnish Kumar
- Dr. Javed Iqbal
- Prof. Mehnaz Kouser
- Prof. Arti Sharma

## Technical Committee

- Prof. Waseem Akram
- Prof. Masood Ahmed
- Prof. Zaffar Iqbal

## About Chief Guest

Professor (Dr.) S.D. Sharma is a distinguished academician and researcher hailing from District Poonch in Jammu & Kashmir. He is an esteemed alumnus and has held significant positions, including the Head of the Department of Physics and the Principal of SKC Government Degree College, Poonch. After serving more than 3 decades in JKED he retires as Principal SKC GDC Poonch.

## About Convener

Waseem Ul Haq is serving as Assistant Professor of Physics in the Higher Education dept. of J&K-UT since 2021. He is also a senior research fellow (Ph.D) at IIT Delhi

## Students Seminar

We are excited to announce the celebration of National Space Day, a day dedicated to the wonders of space exploration and discovery. To mark this occasion, we invite you to prepare a presentation or speech on one of the following themes

- Space Exploration Milestones
- Mangalyan Mission
- Chandaryan Mission
- The Future of Space Travel
- Women in Space
- Space Technology Innovations
- Astronomy and Stargazing
- Life in Space
- Space and the Environment
- Youth and Space Education

Please submit your chosen topic to Prof. Waseem Ul Haq HOD Physics SKC GDC Poonch 15th August, 2024.

## DEPT. OF PHYSICS ORGANIZED NATIONAL LEVEL SEMINAR; NATIONAL SPACE DAY CELEBRATED AT SKC GDC POONCH.



The Department of Physics at SKC Government Degree College (GDC) Poonch organized a grand celebration of National Space Day, bringing together students, faculty, and esteemed guests to explore the wonders of space science and technology. The event commenced with a warm welcome address by Dr. Waseem Ul Haq, Head of the Department of Physics and the convener of the event. He set the stage by emphasizing the importance of space science in shaping the future and inspiring students to engage in this ever-evolving field. The introductory remarks were presented by Prof. Imtiaz, Head of the Department of Environmental Science and the event coordinator.

The event, presided over by the Principal of SKC GDC Poonch, Dr. Jasbir Singh, was a resounding success, highlighting the importance of space exploration and its impact on humanity.

The event was graced by the presence of the Chief Guest, Prof. Dr. S.D. Sharma, a retired principal from Jammu and Kashmir Higher Education Department (JKHED). A distinguished researcher and academician, Prof. Dr. Sharma shared his valuable insights into the future of space exploration and its potential to transform our understanding of the universe. His inspiring words set the tone for the day's activities.

# RESOURCE PERSON ON NATIONAL ENERGY CONSERVATION DAY

Institution Innovation Council SKC Govt. Degree College  
Poonch in collaboration with the Department of Computer  
Applications & and Department of Physics  
organizes Seminar



on  
"National Energy Conservation Day"



14th, December, 2023  
at 11:30 am



Dr. Auranzeb Anjum  
Coordinator IQAC &  
Vice President  
IIC SKC GDC Poonch



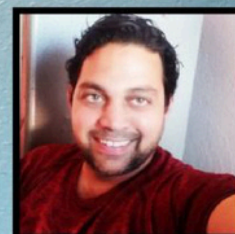
Convener  
Prof. Waseem Akram  
Head Department  
Computer Application



Dr. Jasbir Singh  
Principal  
SKC GDC Poonch



Resource Person  
Prof. Waseem UI Haq  
Head  
Department Physics  
SKC GDC Poonch



Organizer  
Dr. Tariq H. Sheikh  
Start-up Expert IIC & Faculty  
Department of Computer Application  
SKC GDC Poonch

"Earth provides enough to satisfy  
every man's needs, but not every  
man's greed." - Mahatma Gandhi

# MEDIA COVERAGE

## NATIONAL ENERGY CONSERVATION DAY

JAMMU, FRIDAY 15, DECEMBER, 2023

### SKC GDC Poonch Celebrated National Energy Conservation Day

**NIN NEWS SERVICE**

**JAMMU, DEC 14**

Energy Conservation Day is celebrated annually on December 14th to raise awareness about the importance of energy conservation and promote sustainable practices. In line with this initiative, the Institution Innovation Council (IIC) in collaboration with the Department of Computer Application and Physics organized a seminar and poster-making competition to commemorate Energy Conservation Day. The objective was to instil a sense of responsibility among students and staff towards energy conservation and environmental sustainability. The celebration began with an inauguration ceremony attended by Dr. Jasbir Singh Principal of the College, Faculty Members from different Departments and a large number of students. Dr Tariq Hussain Sheikh from Department of Computer Application delivered the welcome address and conducted overall proceedings of the programme. Prof. Waseem ul Haq Head Department of Physics was the eminent speaker in the seminar. He gave a detailed presentation and discussed that Energy conservation is



not just a buzzword but a crucial concept that holds the key to mitigating environmental challenges and ensuring a better quality of life. It involves the judicious use of energy resources, minimizing waste, and adopting practices that reduce our carbon footprint. During his talk he emphasized that the demand for energy is escalating, and our conventional sources are finite. Therefore, it is imperative that we adopt a responsible approach toward energy consumption. The Chief Guest Dr. Jasbir Singh delivered an insightful speech on the significance of energy conservation and its impact on the environment. He explained that by adopting conscious habits, staying informed,

and advocating for sustainable practices, we contribute to a more sustainable and resilient future. Let us pledge to be stewards of the environment and embrace a lifestyle that cherishes and preserves our precious energy resources. Moreover to engage students creatively, a poster and slogan competition on energy conservation was organized. The entries were displayed, and the winners were awarded during the closing ceremony. This initiative aimed to encourage artistic expression while reinforcing the importance of energy conservation. At last Prof. Asrar Ahmed Head Department of Sociology presented formal vote of thanks.

**CHIEF PATRON**



**Shri Alok Kumar**  
(IRS)  
Principal Secretary  
to Government  
Higher Education  
Department, J&K  
Govt.

**PATRON**



**Prof. (Dr.)  
Yasmeen Ashai**  
Director Colleges  
Higher Education  
Department, J&K  
Govt. India

**CO-PATRON**



**Dr. Jasbir Singh**  
Principal SKC GDC  
Poonch

**CONVENER**



**Mr. Imtiaz Ahmed**  
Assistant Professor  
& HoD EVS

**ORGANIZING  
SECRETARY**



**Mr. Waseem Ul  
Haq**  
Assistant Professor  
& HoD Physics

**COORDINATOR**



**Ms. Nusrat Kouser**  
Assistant Professor  
& HoD Political  
Science, Nodal  
Officer Shikshit  
Bharat Club SKC  
GDC Poonch

**SKC Govt. Degree College Poonch**

(NAAC ACCREDITED WITH "A" GRADE)

**Department of Environmental Science  
in collaboration with the Department of Physics and  
Shikshit Bharat Club**

Organising  
International Seminar(Online mode)

on

"World Environment Day 5<sup>th</sup> June, 2024 at 3 PM

Theme: "Land Restoration, Desertification, and Drought  
Resilience"



**Sub-themes of seminar**

- Atmospheric particles: Implications to Health & Environment (**Dr. Sumit Kumar Mishra**).
- Climate Crisis & Extreme weather events (**Lieut. Dr. Pankaj Mehta**).
- Role of policies & legislation in environment protection (**Adv. Nadeem Qadri**).
- Biodiversity & Conservation (**Dr. Taslima Sheikh**).
- Renewable energy (**Dr. Chitra**).
- Pollution, climate, & theme of WED-2024 (**Ms. Supreet Kaur**).
- Inceptions & Role of Central Pollution Control Board (**Mr. Anshul Singh**).
- Pathways to Sustainable Living (**Mr. Zaheer ud din Sheikh**).

**EMINENT SPEAKERS**



**Dr. Sumit Kumar  
Mishra**  
*Sr. Principal  
Scientist, CSIR-  
National Physical  
Laboratory, Delhi*



**Lieut. Dr. Pankaj  
Mehta**  
*Assistant Professor,  
Central University of  
Jammu*



**Adv. Nadeem Qadri**  
*Environmentalist &  
Environment activist*



**Dr. Chitra  
Elecsome & RMIT  
Australia, CSIR-NPL  
Delhi**



**Dr. Taslima Sheikh**  
BGSBU  
*Renowned  
Lepidopterologist  
(Butterfly Lady of  
Jammu & Kashmir*



**Ms. Supreet Kaur**  
*Faculty at Delhi  
University & Senior  
research fellow at  
CSIR-National  
Physical  
Laboratory, New  
Delhi*



**Mr. Anshul Singh**  
*Senior Scientific  
Assistant at Central  
Pollution Control  
Board, Ministry of  
Environment, Forest  
and Climate Change,  
Gol*



**Mr. Zaheer Ud Din  
Sheikh**  
*Research Scholar and  
Junior Research  
Fellow at Central  
University of Jammu,  
J&K*

Google Meet link: <https://meet.google.com/vic-kgkt-tyf>

# WORLD ENVIRONMENT DAY 2024

05-June-2025



Dept. of  
physics in  
collaboration

The Department of Physics, in collaboration with the Department of Environmental Science at SKC GDC Poonch, successfully organized a one-day International Conference on June 5, 2024, to mark World Environment Day. The event featured in-depth talks by expert speakers on the current year's environmental theme, alongside a poster presentation session where students showcased their work to raise awareness and celebrate the day. The conference was efficiently coordinated by Dr. Waseem Ul Haq, HoD Physics, as the Organizing Secretary, and was held under the overall supervision of the college Principal, Dr. Jasbir Singh.



# INTERNATIONAL CONFERENCE ON “WORLD EARTH DAY”

28-April- 2025

## One-Day International Hybrid Conference on World Earth Day 2025 organized by SKC GDC Poonch

Poonch: The “One-Day International Conference in Hybrid Mode on World Earth Day, organized by Shri Krishan Chander Government Degree College Poonch, concluded successfully with enthusiastic participation from students, faculty, and renowned experts across the globe. The event, centered around the theme “Earth Day 2025: Discussing the Blue Planet (Our Home, Our Future)”, was jointly organized by the Departments of Environmental Science, Physics, Sericulture, and Geography. The first segment of the event featured an exhibition of models and artworks by students, meticulously supervised by their respective Heads of Departments. The panel of judges Dr. Mohd Akram, Dr. Yougesh



marks by the Principal of GDC Poonch, Dr. Jasbir Singh, who lauded the students' dedication and emphasized the importance of such initiatives in fostering environmental awareness. The second part of the conference transitioned into an online session, inaugurated with introductory remarks

Department of Geography, University of Jammu) and hosted by Mr. Imtiaz Ahmed, featured three keynote speakers: Dr. Vikas Goel (Virginia Tech, USA) spoke on “Atmospheric Pollution: Implications for Health and Environment,” Dr. O.P. Vidyarthi (Retired IFS and Sahitya Akademi

Pir Panjal Region” and Dr. Nidheesh T.D. on “Forest and Environment Conservation.” The final session, chaired by Prof. Bashir Ahmed (Associate Professor of Physics SCS GDC, Mendhar) and hosted by Dr. Arti Sharma, featured Dr. Taslima Sheikh (Butterfly Lady of J&K) speaking on “Butterflies and Insects,” followed by Adv. Nadeem Qadri's talk on “Role of Policies & Legislation in Environment Protection.” In a notable addition to the event, the Department of Physics unveiled its Annual Calendar 2025 in the presence of Principal Dr. Jasbir Singh and other esteemed dignitaries. The calendar, meticulously designed by Prof. Waseem Ul Haq, Head of the Physics Department, features significant academic

in the department to innovation. The calendar included various projects, addresses by Prof. Jasbir Singh, and a commendation for the event. The calendar also featured a section on environmental protection, which was a highlight of the event. The calendar was presented to the Principal and other dignitaries, marking a significant achievement for the department.

**Presiding Dignitary:**  
**Dr. Jasbir Singh** – Principal, SKC GDC Poonch  
**Prof. Imtiaz Ahmed** – Convener (HoD, Environmental Science)  
**Prof. Waseem Ul Haq** – Organizing Secretary (HoD, Physics)  
**Dr. Arti Sharma & Dr. Nawaz Ahmed** – Coordinator

One-Day International Conference in Hybrid Mode on World Earth Day, organized by Sher-e-Kashmir Government Degree College (SKC GDC) Poonch, concluded successfully with enthusiastic participation from students, faculty, and renowned experts. The event, centered around the theme "Discussing the Blue Planet: Earth Day 2025", was jointly organized by the Departments of Environmental Science, Physics, Sericulture, and Geography.





# EXPERT TALK

## CAREER COUNSELLING CELL



SKC GOVT. DEGREE COLLEGE POONCH  
CAREER COUNSELING CELL  
IN COLLABORATION WITH  
DEPARTMENT OF COMMERCE , HISTORY, ECONOMICS, NSS & NCC

**organizing**

### EXPERT TALK ON MOTIVATION THROUGH GOAL SETTING



**EXPERT SPEAKER  
MR. RIZWAN UDDIN**

**REGIONAL PROVIDENT FUND COMMISSIONER**

**About the Speaker: Over two decades of extensive experience in various key roles, including Assistant at LIC of India , Ministry of Human Resource Development, and Employee's Provident Fund Organization.**

**VENUE: GEOGRAPHY LECTURE THEATRE  
MONDAY APRIL 29, 2024**

#### ADVISORY COMMITTEE

|                          |                            |
|--------------------------|----------------------------|
| DR. SYED WAJAHAT HUSSAIN | (HOD ENGLISH)              |
| DR. SHAMIM AHMED BANDAY  | (DEPARTMENT OF ZOOLOGY)    |
| PROF. TEHSEEN ABASS.     | (HOD MATHEMATICS)          |
| PROF. MOHD ANWAR         | (HOD COMMERCE)             |
| DR. AHJAZ AHMED.         | ( HOD PERSIAN)             |
| PROF. WASEEM AKRAM       | (HOD COMPUTER APPLICATION) |
| DR. AMJID ALI.           | (DEPARTMENT OF URDU)       |
| DR.IMTIAZ HUSSAIN SHAH   | ( DEPARTMENT OF URDU)      |

#### ORGANIZING COMMITTEE

|                        |                                   |
|------------------------|-----------------------------------|
| DR. KHALIL AHMED RESHI | (CONVENER CAREER COUNSELING CELL) |
| DR. YOUNGISH KUMAR     | (MEMBER CAREER COUNSELING CELL)   |
| DR. TABASSUM NAZ       | (MEMBER CAREER COUNSELING CELL)   |
| PROF. ASRAR AHMED      | (MEMBER CAREER COUNSELING CELL)   |
| DR. NAWAZ AHMED        | (MEMBER CAREER COUNSELING CELL)   |
| PROF. NUSRAT KOUSER    | (MEMBER CAREER COUNSELING CELL)   |
| PROF. AAFIA ZAMAN.     | (MEMBER CAREER COUNSELING CELL)   |
| PROF. WASEEM UL HAQ    | (MEMBER CAREER COUNSELING CELL)   |
| DR. RAJNISH KUMAR      | (MEMBER CAREER COUNSELING CELL)   |
| DR. JAVED IQBAL        | (MEMBER CAREER COUNSELING CELL)   |
| DR. SANMEET KOUR       | (HOD ECONOMICS)                   |
| DR. SARFRAZ MIR        | (HOD HISTORY)                     |

# MEDIA COVERAGE

## CAREER COUNSELLING CELL

### SKC GDC Poonch organized an Expert Talk



**NEW DELHI**

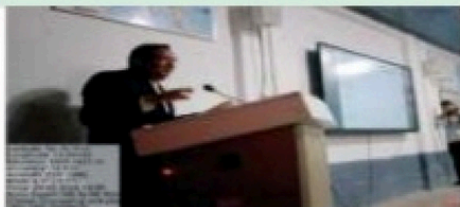
Career Counseling SKC GDC Poonch organized an expert talk on Motivation Through Goal Setting in collaboration with the Departments of History, Economics, Commerce, NSS and NCC. This programme was especially for our outgoing students. This session was held in the Geography Lecture Theatre. An expert talk on the above topic was given by Mr Rizwan Uddin. He is the Regional Provident

Fund Commissioner and is also a great motivator. Assistant Labour Commissioner Poonch and other officers were also present with him on this occasion. 30 Professors and 95 students participated in this session. College Principal Dr Jasbir Singh presented a bouquet to Mr Rizwan Uddin. The welcome speech was delivered by Dr. Khalil Ahmed Reshi, Convener of Career Counseling, and Head Department of Urdu. After that, Mr. Rizwan Uddin

delivered an expert talk through power point presentation. The presidential speech was delivered by College Principal Dr. Jasbir Singh. At the end, the vote of thanks was given by Professor Waseem Ul Haq, Head of the Department of Physics and Member of Career Counseling, while the proceedings were conducted by Prof. Asrar Ahmed, Head Department of Sociology and Member of the Career Counseling.

ایس کے سی جی ڈی سی پونچھ میں ایکسپٹ ٹاک کا اہتمام

پی ایف کمشنر رضوان الدین نے بطور خاص کی شرکت



# ACTIVITY

## CAREER COUNSELING CELL

The Career Counselling Cell of SKC Government Degree College (GDC), Poonch, in collaboration with Kartavya IAS Academy, successfully organized a one-day motivational seminar titled "Road to Success". The event aimed to guide and inspire students regarding career opportunities, competitive examinations, and personal development. This event was presided by worthy Principal of the college **Dr. Jasbir Singh**. Welcome address presented by **Dr. Khalil Ahmeed Reshi (Convener)** Proceedings of the event carried by **Dr. Waseem UI Haq**



### ONE-DAY SEMINAR "ROAD TO SUCCESS"

The key highlight was the motivational talk delivered by **Mr. Dinesh Choudhary**, Managing Director of Kartavya IAS Academy. In his engaging session, Mr. Choudhary shared valuable insights on:

- Strategies for cracking competitive exams such as UPSC, JKSSB, and other state-level tests.
- The importance of discipline, consistency, and a positive mindset.
- Time management and effective study techniques.

# CO-CURRICULAR

# Activities



"Coming together is a beginning. Keeping together is progress. Working together is success." - Henry Ford

# SKC GDC POONCH CELEBRATES TEACHERS' DAY WITH TRIBUTE TO DR. R.L. SHARMA

September 5, 2024



SKC Government Degree College (GDC) Poonch, in partnership with the Indian Science Congress Association (ISCA) Jammu Chapter, hosted a remarkable Teachers' Day event to honor Dr. R.L. Sharma, a distinguished chemist and educator. The celebration highlighted the institution's dedication to acknowledging exceptional contributions to science and education.

Dr. R.L. Sharma, the chief guest, delivered a moving address on Dr. Sarvepalli Radhakrishnan's legacy and shared memorable anecdotes from his time at Poonch. He announced a generous donation of two lakh rupees to SKC GDC Poonch, which will fund a yearly scholarship for the top student and the top student in chemistry.

Various retired and acting principals of JKHED also attended the said event.



# — NATIONAL TRIBAL DAY —

## CO-CURRICULAR ACTIVITIES

**Convener:** Dr. Shamim Ahmed, **Members:** Prof. Nusrat Koser and Dr. Waseem Ul Haq



Dr. Waseem ul Haq has been formally appointed as a member of the Cultural Committee responsible for orchestrating student participation in the **National Tribal Day 2024** celebrations. In this capacity, Dr. Waseem has contributed to the planning and execution of cultural displays, performances, and educational activities that highlight and honor rich tribal heritage.





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Physics Newsletter

Vol.1/2025/PHY/GDCP



# SKC Govt. Degree College Poonch



Campus beautification/cleanliness and Plantation Drive

21st-25th Sept. 2025

- ▶ 11 -01 PM, 21<sup>st</sup> Sept. 2025  
Campus cleanliness drive
- ▶ 11 -01 PM, 22<sup>nd</sup> Sept. 2025  
Classrooms and corridors cleanliness
- ▶ 11 -01 PM, 23<sup>rd</sup> Sept. 2025  
Awareness rally, Wastage segregation  
Adopted Village
- ▶ 11 -01 PM, 24<sup>th</sup> Sept. 2025  
Plantation Drive in college Premises
- ▶ 11 -01 PM, 25<sup>th</sup> Sept. 2025  
Plantation and cleanliness drive at Joggers Park Poonch



## The Sewa Parv aims to:

- Inspire citizens to contribute to the nation through service-oriented cultural activities.
- Foster inclusive participation, with a special focus on youth, women, persons with disabilities, tribal communities, and other marginalized groups.
- Encourage creative expression, knowledge sharing, and intergenerational learning around themes of national importance.
- Strengthen awareness and pride in India's heritage, traditions, and contemporary achievements.



## Patron



Dr. Jasbir Singh

## Convener



Dr. Waseem Ul Haq

## Members



Dr. Imtiaz Ahmed



Dr. Zaffar Iqbal



Dr. Arti Sharma



Dr. Tabasia Amin



Prof. Mohd Faisal

Serving Together, Building Viksit Bharat



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Physics Newsletter

Vol.1/2025/PHY/GDCP



# SKC Govt. Degree College Poonch



Campus beautification/cleanliness and Plantation Drive

## SEWA PARV

21st, Sept. 2025

The Beautification/Cleanliness and Plantation Drive Committee of SKC Government Degree College, Poonch, organized a comprehensive Cleanliness Drive and Waste Segregation Awareness Program within the college campus. The initiative aimed to promote environmental consciousness, enhance the aesthetic appeal of the campus, and educate students on sustainable waste management practices.



### Report

- The drive witnessed enthusiastic participation from nearly 100 students from various disciplines. The participants were divided into groups and tasked with cleaning different areas of the campus, including the lawns, gardens, pathways, and common areas. Committee members demonstrated and educated participants on the importance of segregating biodegradable and non-biodegradable waste. The collected waste was sorted accordingly to reinforce this practice.
- **Convener:** Dr. Waseem Ul Haq.
- **Members:** Dr. Imtiaz Ahmed, Dr. Zaffar Iqbal, Dr. Arti Sharma



### Glimpses





Physics Newsletter

Vol.1/2025/PHY/GDCP



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- Members:** Dr. Imtiaz Ahmed, Dr. Zaffar Iqbal, Dr. Arti Sharma

### Glimpses





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Physics Newsletter

Vol.1/2025/PHY/GDCP



# SKC Govt. Degree College Poonch



Campus beautification/cleanliness and Plantation Drive

## SEWA PARV

23rd , Sept. 2025

In a significant initiative aligned with the SEWA PARV framework, **SKC Government Degree College, Poonch**, successfully organized a one-day outreach program at the **Ajote War Memorial** in its adopted village, Ajote. The event featured an intensive cleanliness drive that saw the enthusiastic participation of nearly 50 students, who worked diligently to clean and maintain the historic site. Complementing the practical service, an awareness session was held where **Convener of the program Dr. Waseem Ul Haq** addressed the students on the critical importance of cleanliness and hygiene for public health.



### Activity Report

Further enriching the program, **Dr. Imtiaz Ahmed** HoD Environmental science delivered an extensive talk on the urgent issue of climate change, detailing its causes and alarming impacts to sensitize the participants. The entire event was actively supervised and supported by faculty members **Dr. Zaffar Iqbal** and **Dr. Arti Sharma**, who guided the students' activities and ensured the program's smooth execution. This outreach successfully combined community service with essential education, fostering a spirit of civic responsibility and environmental stewardship among the students while strengthening the college's bond with the local community.





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Physics Newsletter

Vol.1/2025/PHY/GDCP



# SKC Govt. Degree College Poonch



Plantation Drive in Collaboration with Dept. of Social Forestry

## SEWA PARV

24th Sept. 2025

▶ ± 3 Trillion

Estimated Number of Trees on Earth

▶ 1.39 trillion

in tropical and subtropical regions

▶ 0.61 trillion

in temperate zones

▶ 0.74 trillion

in sub-Arctic and Arctic zones

Start by planting just one tree



### The Power of One Tree

- Produces enough oxygen into atmosphere
- Absorbs tons of CO<sub>2</sub>
- Filters pollution 70x more effectively than mechanical filters
- Reduces cooling energy
- Releases water into the air



### Report

SKC GDC Poonch organized a one-day SEWA PARV outreach program at the Ajote War Memorial, featuring a plantation drive in collaboration with the **Department of Social Forestry**. Nearly 20 students participated, and the event included talks by **Dr. Waseem Ul Haq** (Convener) on the profound importance of plantation for ecological balance and a sustainable future and **Dr. Imtiaz Ahmed** on climate change and alarming impacts. The drive was supervised by faculty members **Dr. Zaffar Iqbal, Dr. Arti Sharma, Prof. Mehnaz Kouser, Dr. Tabasia Amin, and Prof. Mohd Faisal**.



Report Submitted by: Dr. Waseem Ul Haq (Convener)



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Physics Newsletter

Vol.1/2025/PHY/GDCP



# SKC Govt. Degree College Poonch



## Campus beautification/cleanliness and Plantation Drive

In collaboration with

Dept. of Social Forestry.

25th, Sept. 2025

### SEWA PARV

The fifth and final day of the SEWA PARV culminated in a series of impactful activities, successfully concluding the week-long event with a strong emphasis on sustainability and recognition. The day commenced with a comprehensive cleanliness drive across the college campus, reinforcing the commitment to hygiene and ensuring a lasting positive impact from the initiatives started earlier in the week. Simultaneously, a plantation drive was conducted in active collaboration with the Department of Social Forestry. This drive significantly contributed to enhancing the campus's green cover and biodiversity, further instilling the values of environmental stewardship among the participants.



### Activity Report

The event culminated in a formal Valedictory Function, presided over by the Principal of SKC GDC Poonch **Dr. Jasbir Singh**. In the address, the Principal commended the relentless efforts of the organizing committee and lauded the enthusiastic participation of the students. The Principal emphasized the critical role such community-service initiatives play in shaping socially responsible and environmentally conscious citizens, aligning perfectly with the core objectives of the SEWA PARV. **Dr. Waseem Ul Haq**, Convener of this committee, extends heartfelt gratitude to Worthy Principal Dr. Jasbir Singh, committee members, staff members and students who participated in these events.



Report Prepared by: Dr. Waseem Ul Haq (Convener)



Amrit Kaal



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Physics Newsletter

Vol.1/2025/PHY/GDCP



# SKC Govt. Degree College Poonch

Events Glimpses



## SEWA PARV

25th, Sept. 2025

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Report Prepared by: Dr. Waseem Ul Haq (Convener)

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# Future Plan

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## "Strategic Initiatives for Enhancing Physics Department Growth and Student Engagement"

### Enrollment and visibility

- Launch a structured school/community outreach programme (visits, popular lectures, lab demonstrations, science fairs) to motivate plus-two students towards physics.
- Develop clear promotional materials (brochure, website section, short videos) highlighting career paths, alumni success stories, and scholarship opportunities in physics.
- Organise an annual "Physics Open Day" with hands-on activities, project exhibitions, and interaction with faculty and current students.

### Academics and curriculum

- Introduce new interdisciplinary electives (e.g., computational physics, data science, electronics, astronomy) to make the programme more attractive to diverse career goals.
- Regularly update laboratory courses with modern experiments and low-cost innovations aligned with current curriculum and industry needs.

### Co-curricular activities

- Establish active student clubs (astronomy club, robotics/Arduino club, physics quiz club) to create a vibrant academic culture.
- Conduct regular events such as seminars, invited talks, workshops, and problem-solving sessions to enrich classroom learning.

### Research and projects

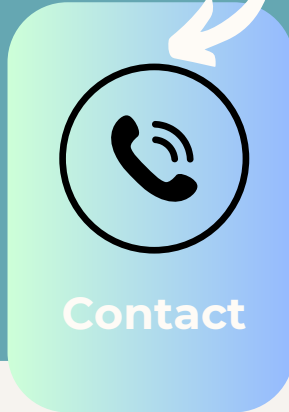
- Encourage undergraduate and postgraduate students to undertake small research projects and present them in conferences or institutional research days.
- Strengthen collaborations with nearby universities/research labs for internships, joint projects, and expert lectures.

### Quality assurance and documentation

- Use feedback from students, alumni, and external experts to continuously improve teaching-learning processes and curriculum.



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Our team is ready to assist you  
with any of your needs.

# Editor-in-Chief



**DR. WASEEM UL HAQ**

It brings me great joy to present to you the first edition of this newsletter – a space dedicated to celebrating our journeys, sharing the pulse of our Physics department, and strengthening the bond that connects us with the institution. Being Head of the department, it is my pleasure to serve as the Chief Editor, Design and Layout Editor, and Content Writer for this newsletter dedicated to my department.

This publication marks a significant milestone for our department, symbolizing not only our academic growth but also the vibrant community spirit among our students, faculty, and alumni.

**Thank you for being an enduring part of our community. We welcome your feedback, stories, and involvement as we continue to grow – together.**

**Biography:** Dr. Waseem Ul Haq hails from Village Kalaban in Mendhar, Poonch district of Jammu and Kashmir. He has submitted his doctoral thesis entitled "Nanostructured Materials for Nuclear Reactor Applications" to the Department of Physics, Indian Institute of Technology (IIT) Delhi, under the supervision of Prof. Santanu Ghosh (IITD) and Dr. Vinita G. Gupta from Bhabha Atomic Research Centre (BARC), Mumbai. He obtained his Master's degree in Physics from the Central University of Haryana and completed his undergraduate studies at Government Degree College, Mendhar (affiliated with the University of Jammu). Among his notable academic achievements are qualifying the CSIR-UGC NET-JRF examination in Physical Sciences (December 2016) and the Jammu and Kashmir Public Service Commission (JKPSC) examination in 2019.

## Reviewer



**DR. JOGINDER SINGH**  
AP PHYSICS  
PG COLLEGE RAJOURI

Congratulations on the publication of our department's first newsletter! This is a fantastic initiative to foster community, share achievements, and improve internal communication. The inclusion of research highlights, pedagogical initiatives, and student achievements provides a holistic picture of collective efforts and sets a strong precedent for future issues. Overall, the newsletter is visually appealing, well-organized, and contains a great mix of content.



**PROF. MOHD FAISAL**

The first issue of our Department of Physics newsletter marks an important step in documenting and celebrating the academic life of the department. The editorial team has successfully brought together reports on teaching, research, student activities, and outreach in a cohesive and readable format.

From a reviewer's perspective, the newsletter reflects a commendable balance between formal academic tone and accessibility for students and non-specialists.

