

AIM OF THE SCHOOL

The 1st AIP Winter School: Research & Career Development is a 5-day program designed to boost participants' research skills and professional growth. The school offers hands-on research workshops, career development sessions, and mentorship opportunities led by seasoned academics and industry experts. Participants will learn essential skills like data analysis, networking, CV building, and strategic career planning. The program also includes personalized career guidance and fosters connections among researchers and professionals. Ideal for early-career researchers and graduate students, attendees will leave with advanced research competencies, clear career strategies, and a strong network, positioning them for success in academia or industry.

International/National Advisory Committee

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<https://aipbharat.org/>

Convenors

Dr. Sanjay Kumar Singh
Assistant Professor, Department of Physics
S. D. College, Barnala

Dr. Ankit Kumar Mittal
Chief Councillor, AIP North Zone
Assistant Professor, Chandigarh University

Organizing Secretaries

Dr. Pukhrambam Dipak
Chief Councillor, AIP Central Zone
Assistant Professor, Chandigarh University

Mr. Kaushal Agheda
State Chairperson, Gujarat

ABOUT AIP

The Association of Indian Physicists (AIP) is a subdivision of the Janardan Singh Foundation, approved by Ministry of Corporate Affairs' Government of India, New Delhi which unites physics enthusiasts. AIP fosters physics education through engaging events, such as Talk Series, seminars, conferences, workshops, and training for students, faculty, and researchers. AIP's proactive approach supports talent and innovation, while its nine-zone structure enhances accessibility across India. Guided by the philosophy, "वैज्ञानिकज्ञानं वर्धयितुं भौतिकशास्त्रं," AIP encourages physics educators to broaden their perspectives and advance national scientific dialogue, enriching both intellectual and scientific growth in India.

ABOUT S. D. COLLEGE

S.D. College Institutions, run by S.D. College Educational Society, Barnala, have delivered quality education for over 63 years. Guided by founder Dr. Raghubir Parkash and Pandit Anand Sarup, S. D. College is affiliated with Punjabi University Patiala, and recognized by NAAC and also running Star College Scheme of Department of Biotechnology (DBT), Govt. of India, New Delhi. The college features advanced labs, a well-stocked library, and a modern infrastructure to support student and teacher growth. With dedicated management, qualified staff, and an innovative teaching environment, the institution excels in academics, co-curriculars, and advancing teacher education.



वैज्ञानिकज्ञानं वर्धयितुं भौतिकशास्त्रं

... Accelerating Physics
to transcend the scientific knowledge

1ST INTERNATIONAL AIP WINTER SCHOOL: RESEARCH & CAREER DEVELOPMENT

Jointly Organized by

Association of Indian Physicists (AIP)
&
Janardan Singh Foundation
&

S. D. College, Barnala, Punjab

(26-30 December, 2024)

Venue

S. D. College
K. C. Road,
Barnala - 148101, Punjab

Topics

- Focuses on research basics, including reading research papers, defining research questions, writing literature reviews, and a group literature review assignment.
- Covers research writing, experimental methods, and ethical research practices.
- Introduces research oriented tools and data analysis using Origin.
- Teaches manuscript preparation, resourceful experimentation, advanced characterization techniques, and group review presentations.
- Offers career guidance with sessions on scholarships, PhD/postdoc opportunities in India and abroad.

AIP Organizing Committee

Name	Designation	State Name
Dr. Sonali Patnaik	Chief Counsellor	East Zone
Dr. Upendra Kumar	State Chairperson	Uttar Pradesh
Dr. Binaya Kumar	State Chairperson	Odisha
Dr. Meena Kumari	State Chairperson	Himachal Pradesh
Mr. Bendangkokba R. Jamir	Secretary of AIP & State Chair Person	Nagaland
Mr. Yugen A. Kulkarni	Chief Counsellor	West Zone
Mrs. Meera Chamoli	State Chairperson	Uttarakhand
Mr. Sangam Pasayat	State Chairperson	Odisha
Mrs. Margi Soni	State Chairperson	Gujarat
Mr. Tsungten pongeneer	Technical Coordinator	AIP, INDIA
Mr. Mrutyunjaya Muduli	Technical Supporting Member	AIP, INDIA
Ms. Sangamitra R.	In charge of AIP Student Chapter	Kerala

Selection Process:

After reviewing the application for the school, participants will receive further information via email to pay the registration fee.

Highlights

- Research problem & research ethics
- Research tools, IPR
- Computational & experimental techniques
- Data analysis & paper writing
- Career and Scholarship opportunity
- Introduction to AI tools for research

Important Dates: (Extended)

Last date to Apply: 10th December, 2024

Acceptance of Selected Participants: 11th December, 2024

Last date of Registration: 12th December, 2024.

Activities

Creating an Impactful Research Poster and presentations, Debate, YOGA, Brainstorming activities, Making scientific model, Group discussion, Physics Innovation hub Visit

Who can join ???

- UG/ PG Students (10/20 Seats)
- Ph.D. / Postdoc (10 Seats)
- Faculty Members (10 Seats)
- Industry Professionals

(LIMITED SEATS AVAILABLE)

Near Places to visit

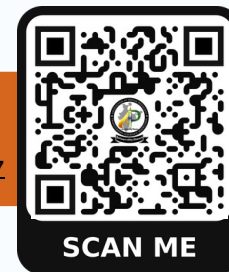
Amritsar (Golden temple, Wagha border about 250 km from Barnala) and Chandigarh (Rock garden, Sukhna lake, Rose garden, Pinjore garden about 180 km from Barnala)

International Expert



Dr. Hao-Lin Hsu

Assistant Professor
Department of Advanced Applied
Materials Engineering,
Kun Shan University, Taiwan.



Registration Link

<https://forms.gle/zWeLxZ28GEecqM7S7>

Registration Fees

- UG/PG student - 3000/- (50\$)
For S.D College Students :2500/-
- Ph.D. / Postdoc - 3500/- (70\$)
- Faculty member - 4500/- (100\$)
- Industry Professionals: 6500 /-
("\$" is apply for Foreign Attendees)
(+3% Razor pay convenience fee Extra)

(Included Normal Breakfast, Lunch, Shared accommodation for 26-30, December 2024.)

Best Participants Cash Award

Complimentary Accommodation

First Come first Serve Simple Accommodation will be arranged on sharing basis from 26 December (Check in) to 30 (Check out). Before and after the schedule participants will bear the charges.

Location:

The Institute is connected by road and by air with Chandigarh (180 Kms), New Delhi (350 Kms). The nearby railway stations are Barnala (1.5 Kms), Dhuri (40), Sangrur (40 Kms), Mansa (50Kms), Bhatinda (65Kms), Ludhiana (80Kms). The nearest airport is Chandigarh & New Delhi. The weather of Barnala during School time is expected to remain cool.