

ANNUAL REPORT

वार्षिक रिपोर्ट

2024-25



ਪੰਜਾਬ ਅਭਿਆੰਤਰਿਕੀ ਮਹਾਵਿਦਯਾਲਯ ਚੰਡੀਗੜ੍ਹ
PUNJAB ENGINEERING COLLEGE

(DEEMED TO BE UNIVERSITY)
CHANDIGARH

PEC ANTHEM

तमसो मा ज्योतिर्गमयः

PEC की दिशा है प्रकाश की ओर

शिवालिक की तराई में

PEC है जैसे सागर में

अनुसंधान के मंथन से

निकलते रत्न विज्ञान के

तकनीकी राह से विकास की ओर

PEC की दिशा है प्रकाश की ओर

अध्यात्म है विज्ञान भी

संस्कार है नवज्ञान भी

कल्पना है रचना भी

परिश्रमी हैं प्रवीण भी

लक्ष्य राष्ट्र निर्माण की ओर

PEC की दिशा है प्रकाश की ओर

विश्व गुरु हों २१वीं सदी के

ये ही है आकांक्षा भारत की

करेगी साकार ये युवा शक्ति

और PEC Deemed to be University

We are PEC,

We are PEC We are PEC

Lead me from darkness to light

PEC headed towards radiance

situated at foothills of Shivalik

PEC is like an ocean

where hard-core research

results in 'Gems' of science

through technology towards development

PEC headed toward radiance

'Explore' Science with spirituality

'Innovate' with tradition

create with imagination

'Excel' through hard work

aspire for national development

PEC headed towards radiance

to be world leader of 21st century

is the desire of India

accomplished by youth-power

and PEC Deemed to be University

We are PEC, We are PEC

We are PEC

WE ARE PEC, WE ARE PEC

CONTENTS

Sr. No.	Contents	Page Nos.
I	From the Director's Desk	1
II	Vision and Mission	3
III	Organization and Institute Functionaries	4
IV	Infrastructure and Facilities	18
V	Academics Programmes and Awardees	34
VI	Departments	59
VII	Research Centres	104
VIII	Activities in Campus Life	106
IX	Sports Achievements	115
X	External Relations	116
XI	Alumni Engagement & Activities	117
XII	Faculty Activities & Recognitions	120
XIII	Consultancy Projects	202
XIV	Highlights 2024-25	215
XV	Events 2024-25	218

I. FROM THE DIRECTOR'S DESK



MESSAGE

Punjab Engineering College (Deemed to be University), Chandigarh, has for decades stood as a distinguished hub of technical education in northern India, carrying forward a legacy of excellence since independence. Throughout its journey, the institute has been instrumental in shaping the nation's progress by cultivating professionals whose intellectual depth, design capabilities, and managerial insight have enabled them to make a significant impact across various disciplines. Our alumni, spread across the globe, continue to distinguish themselves not only in engineering and technology but also in spheres such as management, finance, entrepreneurship, public service, and the creative arts, a testament to the holistic education and values instilled at PEC.

Our academic programs at both undergraduate and postgraduate levels continue to evolve with the times, reflecting our vision of nurturing innovation, research-driven thinking, and experiential learning. With a careful balance of classroom instruction and practical exposure, PEC equips its students with the competence and resilience required to thrive in an ever-changing world.

The past academic year 2024-2025 has been particularly gratifying, marked by achievements that reaffirm our commitment to excellence. The signing of an MoU with Power Grid Corporation of India Limited for establishing the POWERGRID Centre of Excellence with a financial implication of Rs. 17,19,26,000/- at PEC under CSR initiatives represents a significant step in strengthening industry–academia collaboration. Our research ecosystem received a major boost with the conferment of the ₹7.5 crore PURSE Grant at the National Science Day Celebration 2025 by Hon’ble Minister Dr. Jitendra Singh, further enhancing our capacity for impactful innovation. Recognition has also come on the individual front, Dr. Har Amrit Singh Sandhu of the Civil Engineering Department was honoured with the Distinguished Service Medal for Region 10 by the American Society of Civil Engineers (ASCE), bringing international acclaim to the institute. Equally inspiring are the laurels earned by our student, Mr. Bhavtegh Singh Gill of Aerospace Engineering, whose remarkable medal-winning performances at the ISSF Junior World Cup, the FISU World University Championship, the National Games, and other prestigious competitions have made the institute proud and embodied the spirit of excellence that PEC nurtures across domains.

Alongside these accomplishments, PEC has continued to uphold vibrant traditions that enrich our campus life. Events such as PECFEST, Trivium, PEC MUN, the Annual Athletic Meet, Spectrum, Verve, and the Global Alumni Meet brought together students, faculty, and alumni in collaborative and creative efforts, strengthening the unique bonds within our community.

As we look ahead, the institute remains deeply committed to fostering an inclusive, future-focused environment that aligns with the vision of Viksit Bharat by 2047. With renewed energy and a clear sense of purpose, PEC is poised to strengthen its role as a leader in engineering education, research, and societal contribution. It is with immense pride that I present the Annual Report 2024–25, confident that our collective efforts will continue to set benchmarks and drive meaningful progress for the nation and beyond.



Prof. Rajesh Kumar Bhatia
Director (Ad-Interim)

II. VISION AND MISSION

VISION

To become a centre of excellence in technical education and research and to occupy a place among the most eminent institutions in the nation.

MISSION

- To build across the institute a culture of excellence in teaching and learning with needed performance and accountability from all support activities
- To enhance the institute's standing as the institute of choice for students across the country; and to augment the presence of international students to at least ten percent of the student body
- To cultivate a field in which new ideas, research, and scholarship can flourish leading to the emergence of creators, innovators, leaders, and entrepreneurs
- To design the education through a continuous process so that the students qualifying from the institute have the top rating in placement
- To achieve excellence in application-oriented research in selected areas of technology to contribute to the development of the region and the nation
- To promote extra-curricular activities for the overall personality development of the students
- To develop responsible citizenship through awareness and acceptance of ethical values
- To build a family of alumni and friends to create a network of allegiance and support for the institute

III. ORGANIZATION AND INSTITUTE FUNCTIONARIES

INSTITUTE OFFICIALS

Sr. No.	Name	Designation
1	Prof.Rajesh Kumar Bhatia	Director (Ad-interim)
2	Col. RM Joshi	Registrar

DEANS/ASSOCIATE DEANS/PROFESSOR-IN-CHARGES:

S. No.	Deans	Name (Prof./ Dr. / Sh./ Ms.)
1.	Prof. Uma Batra	Dean Faculty Affairs
2.	Prof.SK Mangal	Dean Academic Affairs
3	Prof.DR. Prajapati	Dean Student Affairs
4	Prof.Umesh Sharma	Dean, Sponsored Research & Industrial Consultancy
5.	Prof. Sandeep Kumar	Associate Dean, Sponsored Research & Industrial Consultancy
6	Dr. Rajesh Kumar Kanda	Head Alumni, Corporate & International Relations
7	Prof.Sarita Singla	Associate Dean Faculty Affairs
8	Dr. Kamal Kumar	
9	Dr. Sanjay Batish	Associate Dean Academic Affairs (ERP)
10	Dr. Nitin Kumar	Associate Dean Academic Affairs (NEP)
11	Dr. Divya Dhawan	Associate Dean Academic Affairs (IQAC)
12	Dr. Ankit Yadav	Professor-In-Charge (MOOCs)
13	Dr. Manish Kumar	Professor-In-Charge Academic Affairs
14	Prof.Shobhna Dhiman	Associate Dean Student Affairs (Hostels)
15	Dr. Mohit Tyagi	
16	Dr. Puneet Chawla	Associate Dean Student Affairs (Clubs)
17	Dr. Jyoti Kedia	Associate Dean Student Affairs (Societies)
18	Dr. Sandeep Harit	Associate Dean Student Affairs (Sports and Misc Functions)

19	Dr. Manohar Singh	Associate Dean Sponsored Research & Industrial Consultancy
	Prof. Sandeep Kumar	Associate Dean, Sponsored Research & Industrial Consultancy (IPR Cell) w.e.f. 28-08-25
20	Dr. Jimmy Karloopia	Professor-In-Charge, Alumni, Corporate & International Relations

BOARD OF GOVERNORS (BoG)

S. No.	Name	Position
1	Sh Rajinder Gupta	Chairman, BoG (upto 06.10.25)
2	Ms Perna Puri, IAS, Secretary, Technical Education, Chandigarh Administration	Chairperson (w.e.f 07.10.25)
3	Dr. Diprava Lakra , IAS, Finance Secretary, Chandigarh Administration	Member
4	Prof.Renu Vig, Vice Chancellor, Panjab University, Chandigarh	Member
5	Sh Amandeep Singh Bhatti, PCS, Additional Secretary Technical Education, Chandigarh Administration	Member
6	Nominee of the Department of Secondary Education & Higher Education, MoE, GoI	Member
7	Nominee of Ministry of Home Affairs, GoI	Member
8	Director, IIT Delhi or his/her Nominee	Member
9	Nominee of Chairman, UGC	Member
10	Sh. Taranjeet Singh Bhamra, Chairman, CII, Northern Region	Member
11	Prof. Shantanu Bhattacharya, Director, CSIO, Chandigarh	Member
12	Sh Kiran Malhotra, Advisor Business Development in the Automative Industry, Hoebiger Drive Tech, Germany	Member
13	Prof. Arun Kumar Grover, Ex Vice Chancellor, Panjab University, Chandigarh	Member
14	Sh Praveer Sinha, CEO & Managing Director, The Tata Power Company Limited	Member
15	Sh Amit Syngle, Managing Director and CEO, Asian Paints Limited	Member
16	Sh Gurpratap Singh Boparai, Managing Director SKODA Auto Volkswagen India Private Limited	Member
17	Prof.Deepak Bagai, Electronics & Communication Engg Dept, PEC, Chandigarh	Member

18	Prof.Uma Batra, Metallurgical & Materials Engg Dept, PEC, Chandigarh	Member
19	Director, PEC, Chandigarh	Member
20	Registrar, PEC, Chandigarh	Member Secretary

SENATE MEMBERS

S. No.	Name	Position
1.	Director	Ex Officio, Chairman
2.	Dy Director	Ex Officio
3.	Heads of all Academic Departments	Ex Officio
4.	Dean Academic Affairs	Two Professors, other than Deans/Heads of Department by rotation
5.	Dean Student Affairs	
6.	Prof.Manohar Singh, Electrical Engineering Department	Two Associate Professors from the Departments, elected from amongst the Associate Professors
7.	Prof.Jimmy Karloopia, Production & Industrial Engineering Department	
8.	Prof.Nitin Auluck, IIT Ropar	Two persons from Educationists of Repute or Persons from any other field related to the activities of the Institute, who are not in the service of the Institute, nominated by the Chairman of the BoG
9.	Sh Naman Singhal, CEO, AIC-ISB Mohali	
10.	Head CDGC	Two persons who are not members of the teaching staff, co-opted by the Senate for their specialized knowledge
11.	Head Computer Centre	
12.	Registrar	Ex Officio, Secretary

FINANCE COMMITTEE MEMBERS

S. No.	Name	Position
1.	Sh Rajinder Gupta	Chairman (up to 06.10.2025)
	Ms. Prerna Puri, IAS	Chairperson (w.e.f 07.10.2025)
2.	Sh Diprava Lakhra, IAS, Finance Secretary, Chandigarh Administration	Ex Officio Member

3.	Sh Amandeep Singh Bhatti, PCS, Additional Secretary Technical Education, Chandigarh	One other Officer of the Chandigarh Administration, nominated by Chandigarh Administration (Ex Officio)
4.	Prof.Shantanu Bhattacharya Director CSIO-CSIR	Two Members of the Board, nominated by the BoG
5.	Prof.Uma Batra, Professor, Metallurgical & Materials Engg Dept, PEC, Chandigarh	
6.	One Nominee of the Ministry of Education, Govt of India	Member
7	One Nominee of University Grants Commission	Member
8	Prof.Rajesh Kumar Bhatia, Director (Ad-interim)	Ex Officio Member
9	Col RM Joshi Registrar	Ex Officio Member Secretary

BUILDING & WORKS COMMITTEE MEMBERS

S. No.	Name	Position
1	Prof.Rajesh Kumar Bhatia, Director (Ad-interim)	Chairman
2	Director, CSIO, BoG Nominee	Member
3	Mr Manpal Singh, Engineer-in-Chief (Retd), Public Health Engineering Dept of Haryana	Member
4	Mr Daljeet Singh Mahal, Chief Engineer (Retd), Punjab State Power Corporation Ltd (PSPCL)	Member
5	Chairman (Estate & Works)	Member
6	Registrar	Member Secretary

HEADS OF THE DEPARTMENT

S.No.	Department	Name (Prof./ Dr. / Sh./ Ms.)
1.	Aerospace Engineering	Prof. Rakesh Kumar
2.	Chemistry	Prof. Harminder Kaur
3.	Civil Engineering	Prof. SK Singh
4.	Computer Science & Engineering	Prof. Trilok Chand
5.	Electrical Engineering	Prof. Rintu Khanna
6.	Electronics & Communication Engineering	Prof. Arun Kumar Singh
7.	Mathematics	Prof. Asha Gupta
8.	Mechanical Engineering	Prof. Sanjeev Kumar
9.	Metallurgical & Materials Engineering	Dr. J D Sharma
10.	Physics	Prof. Sanjeev Kumar
11.	Production & Industrial Engineering	Prof. RM Belokar

HEADS/PROFESSOR-IN-CHARGE OF CENTERS/CELLS

S.No.	Name of Centre	Name (Prof./Dr. /Sh./Ms.)
1	Cyber Security & Research Centre	Prof. Divya Bansal
2	Centre of Management & Humanities	Prof. Anju Singla
3	Workshop & Skill Development Centre (CoE-Siemens)	Prof. RS Walia
4	Computer Centre	Dr. Sanjay Batish
5	Student Counselling Cell	Dr. Sulata Bhandari

CAREER DEVELOPMENT & GUIDANCE CENTRE

S.No.	Name (Prof./Dr. /Sh./Ms.)	Responsibilities
1	Dr. JD Sharma	Head
2	Dr. Ankit Yadav	Coordinator(s)
3	Dr. Jaskirat Kaur	
4	Dr. Shilpi Chaudhary (From 15.01.25)	

CHAIRPERSONS AND MEMBERS OF COMMITTEES

S. No.	Name of Committee	Members
1.	Standing Committee for Recruitment	➤ Director (Chairperson) ➤ Dy Director ➤ Dean Faculty Affairs (Convener) ➤ Dean Academic Affairs ➤ Representative (SC) ➤ Representative (OBC/Women) ➤ Respective HoD
2.	Standing Committee for Performance Evaluation/Review of Faculty	➤ Director (Chairperson) ➤ Dy Director ➤ Dean Faculty Affairs (Convener) ➤ Dean Academic Affairs ➤ Respective HoD ➤ Liaison Officer (SC)
3.	Institutional Purchase/Tender Committee	➤ Prof.Uma Batra, Professor (Chairperson) ➤ Prof.Sanjeev Kumar, Physics Dept ➤ Dr. Manohar Singh, EED ➤ DC (F&A) ➤ Central Purchase Officer (Convener) ➤ HoD of the concerned Department/Called as Special Invitee

4.	Library Advisory Committee	➤ Prof.RR Singh, CED (Upto 30.06.25) ➤ O/Is Library of all Departments ➤ Dr. Seema Vasishta, Central Library (Convener)
5.	Standing Committee of Senate	➤ Dy Director (Chairperson) ➤ Dean Academic Affairs (Convener) ➤ Registrar ➤ Head of concerned Department (to be nominated by Chairman Senate) ➤ One outside Senate Member as per availability ➤ 02 Experts to be nominated by Chairman Senate as per requirement
6.	Faculty & Staff Grievance Redressal Committee	➤ Dy Director (Chairperson) ➤ Dean Faculty Affairs (Convener for Faculty) ➤ Registrar (Convener for Staff) ➤ DC (F&A) ➤ External Member to be nominated by the Director as per requirement
7.	Internal Complaint Committee (ICC)	➤ Prof.Neena Gupta, Professor, ECE (Chairperson) ➤ Dr. Sulata Bhandari, EED ➤ Dr. Rupali Verma, Student Adviser Girls Students ➤ Dr. Nidhi Tanwar, CMH ➤ Mr SK Soni, MED ➤ Dr. Rupinder Kaur, CMO, Panjab University, Chandigarh/ External Member(s) nominated by the Director ➤ Ms Poornima ➤ Ms Jiwan Lata ➤ Ms Anamika ➤ Mr Jagat Singh Matharu ➤ Ms Devika Sood
8.	Performance Based Award for Faculty & Staff	➤ Dean Faculty Affairs (Chairperson) ➤ Dean Academic Affairs ➤ Dean SRIC ➤ Associate Dean Faculty Affairs (Convener for Faculty) ➤ Registrar (Convener for Staff) ➤ President, PEC Employees Union (Staff Representative)
9.	Commercial & House Allotment Committee	➤ Prof.Sanjeev Sofat, CSE (Chairperson) ➤ Prof.RS Walia, PIED ➤ Chairperson (Estate & Works)

		➤ President, PEC Employees Union ➤ Mr Jatinder Singh, Sr Assistant ➤ Estate Officer-II (Convener)
10.	Institute Master Plan	➤ Dy Director (Chairperson) ➤ All Deans ➤ Chairperson (Estate & Works) ➤ Registrar ➤ Estate Officer-I (Convener)
11.	Auction & Disposal Committee	➤ Prof.Shakti Arora, CED (Chairperson) ➤ Dr. Suman Kant, PIED ➤ Estate Officer-I ➤ DC (F&A) ➤ Mr Sushil Kumar, Network Administrator
12.	Student Grievance Redressal Cell	➤ Director ➤ Dean Academic Affairs ➤ Dean Student Affairs ➤ Prof.Balwinder Singh, EED (<i>in his capacity as Chairperson, SC/ST Cell</i>) ➤ Dr. Puneet Chawla, Associate Dean Students Affairs (Convener) ➤ Dr. Sulata Bhandari, Professor-In-Charge Student Counselling Cell ➤ Dr. Satnam Kaur, Student Adviser (International Students) ➤ Chief Club Secretary (Student)
13.	SC/ST Cell	➤ Prof.Balwinder Singh, EED (Chairperson) ➤ Prof.Shobhna Dhiman, Physics Dept ➤ Dr. Sukhwinder Singh (ECED), Student Adviser (SC/ST) ➤ Dr. Padmavati (CSE) ➤ Dr. Suresh Chand (MMED) ➤ Mr Rakesh Kumar, Senior Assistant
14.	Computer and Peripherals	➤ Head, Electrical Engineering Dept (Chairperson) ➤ Head, Computer Centre/ Mr Sushil Kumar, Network Administrator ➤ Member: CSE Dept (to be nominated by Head CSE) ➤ Central Purchase Officer (Convener)
15.	Furniture and AC Purchase	➤ Head, Mechanical Engineering Dept (Chairperson)

		➤ Member: Electrical Engg Dept (to be nominated by Head EED) ➤ Central Purchase Officer (Convener) ➤ Workshop Superintendent/ Member nominated by Head PIED
--	--	---

COORDINATORS OF ACTIVITIES

S. No.	Name	Activity
1.	Dean Academic Affairs	Coordinator, Regulatory Compliance (UGC/AICTE/NBA/NAAC/NIRF, etc.)
2.	Prof.NM Suri (PIED)	Coordinator, Time Table
3.	Dr. Simranjit Singh (E&CED)	Coordinator, Entrepreneurship & Innovation Cell and PEC Incubator
4.	Dr. Loveleen Kaur Taneja (EED)	Coordinator, Communication, Information and Media Cell; Newsletter & Publications/PRO
5.	Dr. Kamal Kumar (MED)	Coordinator, NCC (Army Wing)
6.	Dr. Ankit Yadav (MED)	Coordinator, NCC (Naval Wing)
7.	Dr. Sandeep Kaur (EED)	Coordinator, NSS
8.	Prof.Sucheta (Mathematics)	Coordinator, Women Empowerment Cell
9.	Prof.Sanjeev Kumar (Physics)	Continuing Education Programme (Faculty Development Programmes/ Workshops/ Seminars/ Conference/ Short Term Courses & Skill Development/ Enhancement for Staff)
10.	Dr. Sanjay Batish	Coordinator, TEQIP II & III (Four Funds)
11.	Dr. Seema Vasishta	Coordinator, All India Universities (AIU)

CHIEF WARDENS OF HOSTELS

S. No.	Name	Hostel
1.	Dr. Ajay Kumar Electrical Engineering Department	Kurukshetra Hostel
2.	Dr. Chander Kant Susheel Mechanical Engineering Department	
3.	Dr. Rahul O Vaishya Production & Industrial Engineering Department	Aravali Hostel
4.	Dr. Harshit Kumar Khandelwal Mechanical Engineering Department	
5.	Mr Sushil Kumar Computer Centre	Himalaya Hostel
6.	Dr. Lokesh Kumar Mechanical Engineering Department	
7.	Dr. Suresh Chand Metallurgical & Materials Engineering Department	Shivalik Hostel
8.	Dr. Dhiraj Bharat (Up to 15.01.25) Electrical Engineering Department	
9.	Dr. Rattan Lal Mathematics Department	
10.	Dr. Jasvinder Singh (Up to 15.01.25) Production & Industrial Engineering Department	
11.	Dr. Sudesh Rani Computer Science & Engineering Department	Vindhya Hostel
12.	Dr. Alka Jindal (Up to 15.01.25) Computer Science & Engineering Department	
13.	Dr. Balwinder Kaur Chemistry Department	
14.	Dr. Tejbir Kaur Mechanical Engineering Department	Kalpana Chawla Hostel
15.	Dr. Shilpa Computer Science & Engineering Department	

LIAISON OFFICERS

S. No.	Name	Name of Activity
1.	Prof.Neelam Rup Prakash Electronics & Communication Engineering Department	Women Faculty & Staff
2.	Prof.Sarbjit Singh Mechanical Engineering Department	Minority Faculty & Staff
3.	Prof.Balwinder Singh Electrical Engineering Department	SC & ST Faculty & Staff
4.	Prof.Tilak Thakur Electrical Engineering Department	OBC/BC Faculty & Staff
5.	Dr. Bipan Chand Kaushal Electronics & Communication Engineering Department	PWD Faculty & Staff

OFFICERS-IN-CHARGE OF OTHER ACTIVITIES

S. No.	Name	Name of Activity
1.	Prof.Sushant Samir Mechanical Engineering Dept	Chairperson (Estate & Works)
2.	Dr. Har Amrit Singh Sandhu Civil Engineering Department	Estate Officer – I (Civil Maintenance & Construction, Security, Furniture and Heritage Furniture)
3.	Dr. Tejinder Singh Saggu Electrical Engineering Department	Estate Officer-II (Electrical Installation, Telephone Exchange, Air Conditioning, Horticulture, Sanitation, Fire Extinguisher)
4.	Prof.Balwinder Singh Electrical Engineering Department	Chief Vigilance Officer
5.	Dr. Sandeep Salodkar Mechanical Engineering Department Registrar (Up to 15.01.25)	CPIO-cum-Nodal Officer (RTI)
6.	Dr. Sanjay Batish Computer Centre	Central Purchase Officer
7.	Dr. Jyoti Kedia Electronics & Communication Engineering Department	Coordinator, Dhayan Kendra

STUDENT ADVISORS

S. No.	Name (Prof/Dr/Sh/Ms)	Name of Activity
1.	Dr. Sudesh Rani Computer Science & Engineering Department	OBC/BC Students
2.	Dr. Sukhwinder Singh Electronics & Communication Engineering Department	SC & ST Students
3.	Dr. Jasbir Kaur Electronics & Communication Engineering Department	Minority Students
4.	Dr. Satnam Kaur Computer Science & Engineering Department	International Students
5.	Dr. Rupali Verma Computer Science & Engineering Department	Girls Students

COORDINATORS OF STUDENT CULTURAL CLUBS AND TECHNICAL SOCIETIES

S. No.	Name	Name of Clubs
1.	Ms Amandeep Kaur Computer Science & Engineering Department	Speaker's Association & Study Circle (SAASC)
2.	Dr. Shilpi Chaudhary Physics Department	Dramatics Club
	Dr. Nidhi Tanwar (Up to 15.01.25) Centre of Management & Humanities	
3.	Dr. Gourab Das Production & Industrial Engineering Department	Music Club
4.	Dr. Kanu Goel Computer Science & Engineering Department	Editorial Board (English)
5.	Dr. Lokesh Kumar Mechanical Engineering Department	Editorial Board (Hindi)
6.	Dr. Gurpreet Singh	Editorial Board (Punjabi)

	Production & Industrial Engineering Department	
7.	Dr. Kaustubh Kamble Metallurgical & Materials Engineering Department	Projection & Design Club
8.	Mr Prabhsimran Singh Computer Centre	Art & Photography Club
9.	Dr. Vibhor Chaswal Metallurgical & Materials Engineering Department	Rotaract Club

SOCIETIES

S. No.	Name	Name of Society
1.	Dr. Gurpreet Singh Production & Industrial Engineering Department	Aeronautical Society of India (AESI) and Aeromodelling
2.	Dr. Har Amrit Singh Sandhu Civil Engineering Department	American Society of Civil Engineers (ASCE)
3.	Dr. Satnam Kaur Computer Science & Engineering Department	Association for Computer Machinery (ACM)
4.	Dr. Deepak Sharma Electronics & Communication Engineering Department	Institute of Electronics & Electrical Engineers (IEEE)
5.	Dr. Dhiraj Bharat Electrical Engineering Department	Solar Energy Society of Indian (SESI)
	Dr. Jaimala Gambhir (Up to 15.01.25) Electrical Engineering Department	
6.	Dr. Rakesh Dang Mechanical Engineering Department	Indian Society for Technical Education (ISTE)
7.	Dr. Kaustubh Kamble Metallurgical & Materials Engineering Department	Indian Institute of Metals (IIM)

8.	Dr. Tejbir Kaur Mechanical Engineering Department	Robotics
9.	Dr. Chander Kant Susheel Mechanical Engineering Department	Society of Automobile Engineers (SAE)
10.	Dr. Jasvinder Singh Production & Industrial Engineering Department	Society of Manufacturing Engineers (SME)
	Prof.NM Suri (Up to 15.01.25) Production & Industrial Engineering Department	
11.	Dr. Mohinder Pal Garg Production & Industrial Engineering Department	American Society of Mechanical Engineers (ASME)
12.	Dr. Shilpi Chaudhary Physics Department	Astronomy & Space Physics Society (ASPS)

STAFF

S. No.	Total No. of Sanctioned Posts	No. of Regular Staff		No. of Contractual Staff		No. of Outsourced Staff		Total No.	
		Male	Female	Male	Female	Male	Female	Male	Female
1	399	108	32	06	-	80	35	194	67

IV. INFRASTRUCTURE & FACILITIES

The institute campus extends over an area of 149 acres of land situated close to the beautiful Shivalik Hills. The campus is divided into various functional zones like hostels, a main institute building, a new academic block, an administrative block, a technology block, a residential complex for faculty and staff, and a market. In addition to lecture theatres, tutorial rooms, committee rooms, seminar rooms, board rooms, senate hall, and drawing halls, the institute has an auditorium, open-air theatre, library, computer centre, reading rooms, workshops, and well-equipped laboratories. The institute has spacious playgrounds, tennis courts, squash courts, a swimming pool, a gymnasium, a student club, and a technical society area. Banking facilities with nationally connected ATMs and a computerized post office are available. Adequate hostel facilities for both boys and girls are available on the institute campus.

1. CENTRAL LIBRARY

The library is housed in an impressive three-storied building, based on modern principles of architecture, with an **area of 27000 ft² (2508.38 m²)**. Having two interlinked buildings as Old Block and New Block, the latter is a spacious extended block consisting of three separate floors with a centrally air-conditioning facility. It has **seating accommodation for 385 users**.



The library has **open access** to all its collections (1.26 lakh documents) and is organized into various sections viz. Circulation Section, Periodical Section, Reference Section, Multimedia Section, Newspaper/ Magazine Section, Technical Section, Book Bank (General and SC/ST), Binding Section, which are manned by professionally qualified staff. All students, faculty, staff, and alumni are entitled to make use of the library facilities provided they enroll themselves as members of the library. Two main **reading halls** of the library are kept open from **9 am to 8 pm** during working days. The working hours of other sections are from **9 am to 5 pm**. However during the mid-term & end-term examinations, the facility of reading halls is extended till 10 pm all through the week days. The library is fully computerized using the LibSys software package, which is an integrated multi-user library management system. The database of books available is being updated on a day-to-day basis with details of recently acquired books. The library has implemented **RFID enabled automation & surveillance system for the library under TEQIP-II**.

FACILITIES

- Online Catalogue (OPAC)
- Three Reading Halls: **WiFi-enabled**.
- Library Home page, <http://pec.ac.in/library> for all the web-based services.
- Digital Library with 32 desktops
- Book bank for needy as well as SC/ST students
- Circulation of New Arrivals List
- Magazine Section
- Reprographic Section
- Anti-Plagiarism Software: **Turnitin**
- Language Editor: **The Grammarly Premium**, is proprietary software that offers over 400 types of checks and features, checks for grammatical errors, and provides vocabulary enhancement suggestions.
- Remote Access: **OPenAthens Remote access** service has been initiated for providing access to subscribed resources to the users anytime, anywhere round the clock (24x7), by diminishing spatial and temporal barriers.
- User Awareness Program: Central Library PEC organizes expert lectures, vendor presentations, training sessions, etc. for students, research scholars, and faculty of the institute as a part of the user awareness program.

EXPENDITURE STATEMENT FOR THE YEAR 2024-25

Sr. No.	Description	Expenditure
1.	E-resources	1,52,42,320
2.	Print Books	1,36,947 (590 books)
3.	Newspapers & Magazines	1,11,387
Total		1,54,90,654

ONOS Initiative

Punjab Engineering College is proud to be among the 6,500+ institutions participating in the Government of India's **One Nation One Subscription (ONOS)** initiative, a groundbreaking step toward equitable research access. Through ONOS, PEC faculty, students, and researchers gain seamless entry to over 13,000 international high-impact journals—empowering innovation, collaboration, and global academic engagement. This initiative aligns with India's vision of ***Atmanirbhar Bharat*** and supports PEC's commitment to fostering cutting-edge research and academic excellence.

List of Accessible 30 Major International Publishers under ONOS

1. Elsevier ScienceDirect*
2. Springer Nature
3. IEEE -IEL Online-Complete
4. Wiley Blackwell Publishing
5. Taylor and Francis
6. Lippincott (Wolters Kluwer)
7. Institute of Physics
8. American Chemical Society
9. Cambridge University Press
10. American Physical Society
11. Oxford University Press
12. BMJ Journals
13. American Institute of Physics
14. ASCE
15. Project Muse
16. Indianjournals.com
17. ASME
18. Bentham Science
19. Cold Spring Harbor Lab Press
20. ACM Digital Library
21. Annual Reviews
22. ICE Publishing
23. American Society for Microbiology
24. AAAS
25. AIAA
26. American Mathematical Society
27. Emerald Publishing
28. Sage Publishing
29. SPIE Digital Library
30. Thieme Medical Publisher

2. COMPUTER CENTRE



The Computer Centre, established in 1994, provides internet, computational, and data processing facilities to the Institute's faculty, staff, and students. Its goal is to offer excellent ICT support for teaching, learning, research, and institutional activities. The campus is equipped with a Controller-Based Wireless Network and over 300 access points for seamless connectivity across academic areas, enabling users to stay connected while moving around.

The Centre houses a dedicated Server Room with Windows and Linux servers for e-mail and web hosting. It also conducts labs for Networking and IoT-related courses, supporting practical learning in IoT, Networking, Programming, AI, and related areas. Two 100-terminal labs are available for projects, thesis work, programming assignments, and online placement tests.

Research at the Centre spans Intelligent Human-Computer Interaction, IoT, Intelligent Networks, Computer Graphics, Visualisation, Smart Technologies, AI, and Information Systems. It also develops web applications ranging from simple event pages to complex systems like the Institute Website, Alumni Portal, Online Admission Portal, and PEC Information System. The in-house Admission Portal streamlines UG, PG, and Ph.D. admissions and keeps students updated throughout the process.

Events:

1. Commendation by Punjab Police Housing Corporation, Mohali

It is a matter of pride for the Computer Centre, Punjab Engineering College (Deemed to be University), Chandigarh that Dr. Sanjay Batish, Head of the Computer Centre, has been recognized for his dedicated services beyond the institute.

On 3rd June 2025, Dr. Batish received a Commendation Certificate from the Punjab Police Housing Corporation Ltd., Mohali, appreciating his sincere efforts, keen interest, and positive approach in the planning and tendering process of SITC of City Surveillance and Traffic Management System at SAS Nagar.

This recognition highlights the professional excellence, commitment, and technical expertise of Dr. Batish in contributing to projects of national and regional importance. It also reflects the impact of PEC's Computer Centre in extending ICT expertise to areas such as public safety and smart city initiatives.

The PEC fraternity feels proud of this achievement, which adds another feather to the cap of the institute's tradition of service and excellence.

Services:

1. Internet Campus Networking
2. Web, Software, Anti-Virus, Email
3. AMC of Computers Peripherals
4. Organize Online Examinations for Companies during Training & Placement Sessions
5. Framing technical specification for Server/Desktop/Laptop, providing technical support, assistance and guidance for purchase of IT Products Maintenance of computers and peripherals.
6. Maintenance of Campus Network Active contribution towards: The Admission Process of the Institute Continuously updating NBA, AICTE, AISHE, NIRF Portals

3. WORKSHOPS

Workshop & Skill Development Centre that plays a crucial role in providing practical training to students across all engineering branches. This centre is equipped with various shops, including carpentry, pattern making, and welding, where students fabricate projects and gain hands-on experience. The workshop serves as a central hub for practical training for all first-year B.E. students. Students from all branches utilize the workshop for both minor and major project fabrication. There are some basic shops namely as: Automobile Shop, Carpentry Shop, Electrical Shop, Electroplating Shop, Fitting Shop, Foundry Shop, Machine Shop, Pattern Making Shop, Sheet Metal Shop, Welding Shop. The centre is equipped with 14 advanced laboratories namely as: Automation, Product design and validation lab, Advanced Manufacturing lab, Test of Optimization lab, Robotics, Process instrumentation lab, CNC Machine lab, CNC Controller lab, Rapid Prototyping lab, Metrology lab, Renewable Energy lab, Electrical and Energy saving lab, Mechatronics and Internet of Things (IoT).

Centre Labs: -

Product Design and validation lab

Robotics Lab

CNC Machine Lab

Rapid Prototyping Lab

Metrology Lab

Renewable Energy Lab

Visitors to the Department/ Centre: -

Sr. No.	Name of Visitor	Affiliation	Title/Purpose	Date
1	CII Team	CII	Visit in labs	19.12.2024
	Delegates	American Society of Civil Engineers India Section North Region (ASCEISNR)	Visit in labs	07.02.2025
2	Director General with Senior Officers	NAM Tech Institute Gandhi Nagar	Visit in labs	19.02.2025
3	School Students	10 Government/ Private schools of the tricity	It aims at invoking a sense of enquiry and curiosity about technology and engineering among young students.	24.04.2025
4	Vice Chancellors	Chandigarh University, Mohali; CT University, Ludhiana; SBBS University, Jalandhar; and GNA University, Phagwara	Interaction meeting & Visit	21.05.2025

NAM Tech Institute Gandhi Nagar Visitors

Vice Chancellors of Various University Visitors



Training programs: -

Sr. No.	Name	Course Name	Affiliation	Date
1	GGSIU - Delhi	Summer Training Internship	GGSIU - Delhi	8 th July 2024 to 19 th July 2024
2	ATAL Workshop	Workshop	AICTE-ATAL	06 th January2025 to 11 th January2025

4. ENTREPRENEURSHIP AND INCUBATION CELL ORIENTATION (EIC)

The Entrepreneurship and Incubation Cell (EIC) at Punjab Engineering College (PEC) is a dynamic platform dedicated to nurturing innovation, creativity, and entrepreneurial thinking among students and innovators. Its goal is to bridge the gap between ideas and execution by providing essential support in the form of mentorship, industry exposure, resources, and incubation. EIC encourages students and innovators to explore their start-up ideas through workshops, boot camps, pitch events, and start-up fairs. It also offers guidance from experienced entrepreneurs, investors, and industry professionals to help refine business models and prepare them for real-world challenges. By fostering a culture of innovation and risk-taking, EIC empowers students to address real-world problems through entrepreneurial solutions. From ideation to incubation, we support every stage of the journey.

EIC is more than just a cell it's a Launchpad for turning bold ideas into impactful ventures, shaping the next generation of leaders, innovators, and change makers at PEC, Chandigarh.

Its initiatives include:

- Workshops & Masterclasses: Sessions with successful entrepreneurs and industry leaders.
- Start-up Fair & Investor Meets: Platforms for students to network with start-ups and investors.
- Incubation & Mentorship Programs: Supporting promising ideas with mentorship and funding opportunities.
- Hackathons & Business Plan Competitions: Encouraging problem-solving and creative thinking.

EIC has been instrumental in launching several student-led start-ups, and continue to expand support for young innovators.

EIC-PEC STUDENTS ACHIEVEMENTS 2024-25

ACHIEVEMENTS				
S. No.	EVENT NAME	NAME OF THE PARTICIPANTS	DATE	POSITION
1.	Global Scaling Challenge	Suryanshu Bansal Keshav Sharma Lavanya Arora Saarthak Goyal	07.03.2024	2nd
2.	Silicon Valley Immersion Program delhi, AICTE Office	Kabir	August, 2024	2nd
3.	Get Set Pitch, Chandigarh University	Karrrtik Gupta Rijul Malik	21.09.2024	Finalist (Special mention)
4.	SIH 24 Grand Finale Bhopal, Madhya Pradesh	Aashish Sachdeva Harsh Ranjan Palkin Vermani Nitima Garg Anish Mahesh Sharma Vikramjit Singh	11–12th December 2024	Finalists (Special mention)
5.	Build and Pitch'25 PEC, Chandigarh	Harsh Ranjan Adit Arora Palkin Vermani Kanishk Raghav	14.02.2025	2nd
6.	Hack2hatch PEC, Chandigarh	Akshat Gupta Anish Dushyant Bhardwaj Harsh Ranjan	20.03.2025	1st Runner up
7.	Global Scaling Challenge organised by University of New Mexico	Keshav Sharma Keshav Singla Kabir Arora	04.04. 2025	Top 5 in Asia regionals, 16th in finals world wide

EIC-PEC FACULTY MEMBERS

Sr. NO.	NAME & DESIGNATION	DEPARTMENT
1.	Dr. Simranjit Singh, Associate Professor Coordinator EIC	Electronics and Communication Engineering Department
2.	Dr. Sudesh Rani, Assistant Professor Co-Coordinator EIC	Computer Science & Engineering Department
3	Dr. T.K Jindal, Professor	Aerospace Engineering Department
4.	Dr. Prem Lata, Associate Professor	Chemistry Department
5.	Dr. Kiran Lata Bhaskar, Assistant Professor	Metallurgical & Materials Engineering Department
6.	Dr. Jasvinder Singh, Assistant Professor	Production Engineering Department
7.	Dr. Mamta Dabra, Assistant Professor	Computer Science Engineering Department
8.	Dr. Gurjeet Singh, Assistant Professor	Mechanical Engineering Department
9.	Dr. Loveleen Kaur, Associate Proffesor	Electrical Engineering Department
10.	Dr. Jaskirat Kaur, Assistant Professor	Electronic Engineering Department
11.	Dr. Badveeti Adinarayana, Assitant Proffesor	Civil Engineering Department
12.	Dr. Rattan Lal, Assistant Professor	Mathematics Department
13.	Dr. Ankit Kumar, Assistant Professor	Mathematics Department
14.	Dr. Nidhi Tanwar, Assistant Professor	Centre of Mgt. and Humanities (CMH)

Facilities Provided by EIC at PEC:

The Entrepreneurship and Incubation Cell (EIC) at PEC offers a well-equipped and supportive environment for student innovators and early-stage start-ups. Some of the key facilities include:

- **Air-Conditioned Workspace:** A comfortable, dedicated co-working space for start-ups and teams to brainstorm, collaborate, and work efficiently.
- **High-Speed Internet:** Reliable Wi-Fi connectivity to support research, development, online collaboration, and business operations.
- **Computers & Technical Support:** Access to computers with necessary software and hardware for business planning, coding, and prototyping.
- **Printing & Scanning Services:** On-site printer and scanner to support documentation, presentations, and report preparation.
- **24x7 Access (on request):** Flexible access to the space for dedicated teams working on tight deadlines.
- **Access** to PEC facilities of library, research labs, research centres etc.

CONTACT US

Official Email: eicpec@pec.edu.in

Location: EIC near Siemens Lab, Punjab engineering college sector 12 Chandigarh 160012

EIC ACTIVITIES: -

Sr.No .	Name of Event	Event Description	Date
1	Faculty Development Program	The Faculty Development Program on “ <i>Design Thinking and Innovation Management in Startups</i> ” was a resounding success, equipping participants with valuable insights and practical skills to foster innovation and entrepreneurial thinking. Through expert lectures, interactive workshops, and networking opportunities, faculty members gained a deeper understanding of design thinking principles and their application in startup ecosystems.	1-5 July, 2024
2	Orientation Programme	The Entrepreneurship and Incubation Cell (EIC) at PEC organized its Orientation Program from 16th to 24th August 2024 to welcome new students.	16-24 th August, 2024
3	General Body Meeting	The Entrepreneurship and Incubation Cell (EIC), PEC, is organizing a General Body Meeting to discuss our upcoming initiatives, review past activities, and outline future strategies.	20.09.2025

4	Startup Fair 2024	Participating Startups: The fair featured 15 startups representing various industries such as technology, finance, healthcare, and more. Each startup came prepared to engage with students and offer internship opportunities to those aspiring to gain hands-on experience in their respective domains. Registrations: The event garnered an impressive 500+ registrations from students across different academic years and disciplines.	5-6 October, 2024
5	Pre-Incubation Drive (insightful orientation)	On October 23, 2024, EIC at PEC held a pre-incubation orientation session led by Akshit Singla, PEC alumnus and MIT graduate, and founder of Founderverse. Addressing early-stage student innovators.	08.11.2024
6	Group Discussion on the Freemium Business Model	EIC at PEC organized a group discussion on the Freemium Business Model. Students actively debated its scalability, customer acquisition, and monetization strategies. Using examples like Spotify, YouTube, and Jio, participants highlighted the model's effectiveness in attracting users and driving growth	25.10.2025
7	Insight IGNITIO	The Ignite event merges innovation with opportunity, guiding participants through ideation, workshops, and presentations to elevate startup dreams.	08.11.2024
8	IPL Auction	The IPL Auction at PECFEST was a thrilling stock market simulation where participants applied strategic bidding, risk assessment, and performance analysis.	10.11.2024
9	Master Trading Tournament	The "Master Trading Tournament" at PEC is a dynamic event simulating real stock market scenarios through two rounds: a quiz and a real-time trading simulation.	1-9 November, 2024
10	Mentorx Round Table	EIC at PEC hosted an engaging MENTORX session with Naman Singhal (CEO, AIC ISB) and Mohit Shrivastava (PEC '87, founder of AdoptMyIdea). Students pitched startups, with NextRound earning ₹1 lakh funding. Key insights included pitch delivery, customer-focused development, and practical experience over grades, offering valuable lessons in market research, teamwork, and building sustainable ventures	18.01.2025
11	Startup IGNITE	Startup Ignite, a collaborative event by IIT Roorkee and EIC PEC, offered students a vibrant entrepreneurial experience. Highlights included engaging startup discussions, previews of IIT Roorkee's E-Summit, quizzes testing entrepreneurial skills, and exciting prizes.	21.01.2025

12	IIT Bombay	EIC at PEC participated in IIT Bombay's prestigious E-Summit 2025, held in February. The event offered keynote sessions, panel discussions, and startup showcases, enriching members with insights into real-world entrepreneurship.	1-2 February, 2025
13	Build & Pitch	The Build & Pitch Competition at PEC showcased innovative startup ideas by aspiring entrepreneurs. With expert insights from panelists Ms. Kavya Khurana (Master's Union) and Mr. Kushagra Verma (ESP Retail), participants refined their strategies and addressed real-world challenges.	14.02.2025
14	Theme Release and Open MIC	On 6th March 2025, EIC at PEC hosted the Theme Release and Open Mic event for E-Summit 2025, unveiling the theme "Catalyzing Viksit Bharat." The evening featured poetry, stand-up, music, and storytelling, reflecting innovation and leadership.	06.03.2025
15	Reel Making Contest	As a lead-up to E-Summit 2025, EIC at PEC organized a Reel Making Contest themed on the Open Mic. With a submission deadline of 8th March, students creatively showcased innovation, individuality, and startup culture.	08.03.2025
16	E-Summit	The Entrepreneurship and Incubation Cell (EIC) at Punjab Engineering College (Deemed to be University), Chandigarh, hosted its flagship event, E-Summit 2025, on 22–23 March. The summit served as a vibrant platform uniting visionaries, investors, startup founders, and aspiring student entrepreneurs. Designed to promote innovation, leadership, and entrepreneurship, the event aimed to inspire students to explore startup culture and unconventional career paths.	22-23 March, 2025



5. CAREER DEVELOPMENT AND GUIDANCE CENTRE (CDGC)

The Career Development & Guidance Centre (CDGC) is a one-stop hub for holistic career support, guiding students to identify, plan, and pursue their aspirations across diverse sectors such as engineering, IT, analytics, consulting, research, and operations. A core responsibility of the Centre is managing the entire campus placement process—from inviting recruiters to conducting interviews—ensuring a seamless and transparent experience for students and employers. CDGC also facilitates full-semester industrial internships, building strong industry partnerships that provide students with real-world exposure. To prepare them, the Centre conducts career talks, expert lectures, pre-placement training, and workshops on soft skills, keeping students industry-ready. It further promotes industrial visits and industry-linked projects, bridging the gap between academic learning and professional requirements. In collaboration with industry experts, the Centre also contributes to curriculum updates, aligning education with evolving market demands. Backed by structured data on placements and internships, CDGC ensures a strategic, results-driven approach. Through its initiatives, it not only connects students with opportunities but also equips them with the skills, confidence, and knowledge to thrive in a competitive professional landscape.

Statistics 2024-25

Internship Data for B.Tech. 2024-25

Internship Data For B.Tech. 2024-25			
Branch	Highest Stipend	Average Stipend	Median Stipend
Aerospace Engineering	30K	19k	15k
Civil Engineering	100K	22.9k	15.5k
Computer Science Engineering	187K	57.1k	50k
Electrical Engineering	100K	34.4k	20k
Electronics and Communication Engineering	187K	41.9k	40k
Mechanical Engineering	50K	22.2k	20k
Materials and Metallurgical Engineering	40K	23.2k	25k
Production and Industrial Engineering	75K	25.3k	20k

Institute Highest stipend - Internships 2024-2025	187K
Institute Average stipend - Internships 2024-2025	43.9k
Institute Median stipend - Internships 2024-2025	25k

Internship Offer Count For B.Tech. 2024-2025	
Branch	Total Offers
Aerospace Engineering	5
Civil Engineering	24
Computer Science Engineering	104

Electrical Engineering	41
Electronics and Communication Engineering	61
Mechanical Engineering	38
Materials and Metallurgical Engineering	11
Production and Industrial Engineering	10
Total Number of Internship Offers to PEC Students	294

Placement Data for B.Tech. 2024-2025

Statistics- Placement Cycle 2024-2025			
Branch	Highest CTC(LPA)	Avg CTC(LPA)	Median CTC(LPA)
Aerospace Engineering	14	11.40	12
Civil Engineering	20.85	11.60	11.40
Computer Science Engineering	61.03	16.73	13.66
Electrical Engineering	52	12.86	12
Electronics and Communication Engineering	61.03	15.55	13
Mechanical Engineering	20.85	10.46	10.34
Materials and Metallurgical Engineering	20.85	10.44	9.52
Production and Industrial Engineering	17.92	10.54	11

Institute Highest CTC - Placements 2024-2025	61.03
Institute Average CTC - Placements 2024-2025	13.63
Institute Median CTC - Placements 2024-2025	12

Placement Offer Count For B.Tech. 2024-2025	
Branch	Total Offers
Aerospace Engineering	08
Civil Engineering	38
Computer Science Engineering	113
Electrical Engineering	93
Electronics and Communication Engineering	91
Mechanical Engineering	68
Materials and Metallurgical Engineering	28
Production and Industrial Engineering	17
Total	456

Pre-Placement Offer Count for B.Tech.

Pre Placement Offer Count For B.Tech. 2024-2025	
Branch	Total Offers
Aerospace Engineering	02
Civil Engineering	08
Computer Science Engineering	35
Electrical Engineering	20
Electronics and Communication Engineering	32
Mechanical Engineering	16
Materials and Metallurgical Engineering	04
Production and Industrial Engineering	03
Total	120

Internship & Placement Data for M.Tech. 2024-2025

Placement Offer Count For M.Tech. 2024-2025	
Branch	Total Offers
Computer Science Engineering	06
Civil – Structure Engineering	01
Civil – Transportation Engineering	01
Electrical Engineering	00
Electronics and Communication Engineering – VLSI	01
Mechanical Engineering	00
Aerospace Engineering	00
Total	09

Internship Offer Count For M.Tech. 2024-2025	
Branch	Total Offers
Computer Science Engineering	06
Civil – Structure Engineering	00
Civil – Transportation Engineering	00
Electrical Engineering	01
Electronics and Communication Engineering – VLSI	05
Mechanical Engineering	00
Aerospace Engineering	00
Total	12

6. HOSTELS:

PEC has six hostels—four for boys (Shivalik, Himalaya, Kurukshetra, and Aravali) and two for girls (Kalpana Chawla and Vindhya). Each hostel operates independently under a warden supervised by the Associate Dean of Student Affairs. Facilities include wi-fi, air conditioning, indoor games, and a 24-hour water and electricity supply with backup. Hostels also have CCTV surveillance, mini libraries, and washing machines. The institute continuously upgrades the hostels to meet students' needs. The extension of Himalaya and Kurukshetra Hostels with 140 and 364 rooms respectively were constructed recently and now operational to accommodate more no. of students.

7. SPORTS:

PEC promotes a healthy lifestyle through a robust sports program. Students participate in events like the Annual Athletic Meet, Inter-Year, and Inter-Department tournaments, and various Inter-University Championships. The institute offers facilities for sports such as Athletics, Badminton, Basketball, Cricket, Football, Kabaddi, Lawn Tennis, Squash, Swimming, Table Tennis, Volleyball, and more. Specialized coaches are available for Athletics, Badminton, Cricket, Football, Swimming, and Volleyball. PEC also has spacious grounds and courts for multiple sports.

Sr. No	Name of the Sports
1	Athletics
2	Basketball: 1 Court
3	Cricket: 1 and 3 net practices
4	Badminton: 2 indoor courts
5	Football: 2 Fields
6	Kabadi: 1 Court
7	Squash: 2 Courts
8	Table tennis: 5 Tables
9	Hockey: 1 Field
10	Lawn Tennis: 2 Court
11	Swimming: 1 Pool
12	Volleyball: 2 Court

8. GUEST HOUSE:



The institute has a well – furnished guest house with rooms and a central dining hall with round the clock room attendant facilities.

Wi-Fi internet connectivity and other modern computer facilities are also available. Renovation of all six rooms in the guest house have been renovated. Renovation of reception area & drawing & dining hall and kitchen is in progress. Ground floor in the Neelgiri Apartments has been converted into guest house. Six No apartments have been converted into 12 rooms which are being used as extension of guest house.

9. MARKET, BANK AND POST OFFICE:



10. CENTENARY HALL

A newly constructed centenary hall was inaugurated by the Hon'ble President of India Sh. Ram Nath Kovind on 16th November 2021. The Centenary Hall includes a main hall, one small hall, one room with attached washroom & kitchen facility on the ground floor. Four suites with attached washrooms and two dormitories are also provided on the 1st floor.



11. DISPENSARY

The institute has a dispensary in the campus to meet the first aid and routine medical requirements of the students free of cost. Consultation is also provided to faculty and staff. A senior medical officer along with other supporting staff- students, pharmacist, nursing staff and a ward boy are available to attend to the needs of the patients. In case of emergency, patients are referred to PGI or Civil hospital, Chandigarh.



12. DHYAN KENDRA

PEC's Dhyani Kendra blends technology and mindfulness to support mental and emotional well-being. This centre offers programs focused on mindfulness, stress management, and emotional intelligence, setting a new standard for holistic education. It aims to empower students and faculty to thrive both academically and personally.

V. ACADEMIC PROGRAMMES & AWARDEES

1. ACADEMIC PROGRAMMES

UNDERGRADUATE PROGRAMMES: The Four-year undergraduate programmes leading to the degree of Bachelor of Technology (B.Tech.) are offered in the following disciplines:

Sr.No	Discipline	Total Intake (Category wise)	Seats Filled General		Seats Filled against SC/ST/OBC etc. Categories		Total Seats Filled	
			Male	Female	Male	Female	Male	Female
(B.Tech.)								
1	Aerospace Engineering	30 + 5 DASA + 1 KM	15	9	3	2	18	11
2	Civil Engineering	120 + 14 DASA + 1 KM + 2 NEUT	82	14	12	4	94	18
3	Computer Science & Engineering	120 + 18 DASA + 1 KM + 1 NEUT	93	14	21	0	114	14
4	Computer Science & Engineering (Data Sciences)	60 + 9 DASA + 1 KM	38	9	10	1	48	10
5	Computer Science Engineering (Artificial Intelligence)	30+ 5 DASA + 1 KM	22	3	4	1	26	4
6	Electrical Engineering	120 + 18 DASA + 1 KM + 2 NEUT	87	14	16	5	103	19
7	Electronics & Communication Engineering	120 + 18 DASA + 1 KM	89	11	19	1	108	12
8	Electronics & Communication Engineering (VLSI)	30 + 4 DASA + 1 KM	22	3	5	0	27	3

9	Mechanical Engineering	120 + 18 DASA + 1 KM	85	9	19	0	104	9
10	Materials & Metallurgical Engineering	60 + 4 DASA + 1 KM +1 NEUT	35	4	9	1	44	5
11	Production & Industrial Engineering	40 + 4 DASA + 1 KM	27	4	5	2	32	6
12	Mathematics and Computing	30 + 5 DASA + 1 KM	23	3	4	1	27	4
TOTAL		880+ 122 DASA+12 KM+10 PMSSS+ 6 NEUT	618	94	127	18	745	115
B. Design		30	8	15	0	1	8	16

2. POSTGRADUATE PROGRAMMES: - Two-year postgraduate programmes leading to the degree of Master of Technology (M.Tech.) are offered in the following disciplines:

Discipline	Total	General			SC			ST			Gate			Non-Gate			Total Filled	
	Intake	M*	F**	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F
Civil Engineering (Structural Engg.)	18	9	1	10	3	0	3	0	0	0	8	1	9	4	0	4	1	12
Civil Engineering (Transportation Engg.)	18	3	3	6	1	0	1	1	0	1	3	0	3	2	3	5	5	3
Computer Science & Engineering	25	16	2	18	5	0	5	0	0	0	18	2	20	3	0	3	21	2
Electrical Engineering	12	3	0	3	2	0	2	0	1	1	4	1	5	1	0	1	5	1
Electronics (VLSI Design)	18	3	4	7	2	1	3	0	0	0	3	2	5	2	3	5	5	5
Environmental Engineering	6	3	0	3	1	0	1	0	0	0	2	0	2	2	0	2	4	0

Mechanical Engineering	12	6	1	7	0	0	0	1	0	1	2	0	2	5	1	6	7	1
Computer Science & Information Security	6	3	0	3	1	0	1	0	0	0	4	0	4	0	0	0	4	0
TOTAL	115	46	11	57	15	1	16	2	1	3	4 4	6	50	1 9	7	26	52	2 4

*M= Male

**F= Female

3. MEDAL WINNERS

MEDAL WINNERS (B. Tech. Students)

S. No	MEDAL	SID	NAME	BRANCH	CGPA
1.	Administrator's Gold Medal	21103080	Akash Rout	Computer Science & Engineering	9.84
2.	Advisor's Gold Medal	21107097	Mohit	Mechanical Engineering	6.75
3.	Gold Medal	21101030	Kanwalpreet Kaur	Aerospace Engineering	9.24
4.	Kalpana Chawla Memorial Gold Medal	21101030	Kanwalpreet Kaur	Aerospace Engineering	9.24
5.	Gold Medal	21102080	Gazalveer Kaur	Civil Engineering	9.90
6.	Gold Medal	21103080	Akash Rout	Computer Science & Engineering	9.84
7.	Aditya Miglani Memorial Gold Medal	21103080	Akash Rout	Computer Science & Engineering	9.84
8.	Gold Medal	21104030	Dheeraj Batra	Electrical Engineering	9.56
9.	Gold Medal	21105043	Mehul Mangla	Electronics & Communication Engineering	9.53
10.	Gold Medal	21107001	Aayush Pratap Toshkhani	Mechanical Engineering	9.40
11.	Gold Medal	21108009	Piyusha	Metallurgical & Materials Engineering	9.18
12.	Gold Medal	21109012	Risible Katyal	Production & Industrial Engineering	9.29
13.	Charu Mehta Memorial Medal	21109012	Risible Katyal	Production & Industrial Engineering	9.29

14.	Silver Medal	21101019	Rajwinder Singh	Aerospace Engineering	9.09
15.	Silver Medal	21102019	Kopal Sharma	Civil Engineering	8.46
16.	Silver Medal	21103029	Kamalpreet Singh	Computer Science & Engineering	9.69
17.	Silver Medal	21104019	Sahil Sharma	Electrical Engineering	7.89
18.	Silver Medal	21105127	Navneet Yadav	Electronics & Communication Engineering	9.05
19.	Silver Medal	21107088	Navya Garg	Mechanical Engineering	8.28
20.	Silver Medal	21108050	Arinjoy Nandy	Metallurgical & Materials Engineering	7.49
21.	Silver Medal	21109004	Parth Jain	Production & Industrial Engineering	9.17
22.	Sarvnipun Chawla Memorial Award	21109004	Parth Jain	Production & Industrial Engineering	9.17
23.	Anmol & Pranshu Garg of CSE Award	21103080	Akash Rout	Computer Science & Engineering	9.84
24.	Anmol & Pranshu Garg of CSE Award	21103056	Yashita Bansal	Computer Science & Engineering	9.68
25.	Charu Puri Award	21103004	Aryaveer Singh	Computer Science & Engineering	7.09
26.	Sheilly Sachdev Memorial Award	21103075	Deepank Khera	Computer Science & Engineering	8.65
27.	Baldev Krishan Gupta Award for Engineering Excellence	21103024	Gaurav Goyal	Computer Science & Engineering	9.06
		21103030	Abhinav Aggarwal		8.16
		21103038	Pushkar Garg		8.87
		21103039	Shaunak Gupta		9.11
28.	Dr. V.C. Chopra Award for CSE	21103080	Akash Rout	Computer Science & Engineering	9.84
29.	Dr. Y.C. Chopra Award for ECE	21105043	Mehul Mangla	Electronics & Communication Engineering	9.53

4. DEGREE AWARDEES

Ph. D DEGREE AWARDEES

Sr.No.	Student ID	Name of Student	Name of Department	Thesis Title	Supervisor
1	19305001	Shikhar Bhardwaj	Computer Science & Engineering	SDN-Based Personalized and Secure Information Delivery Framework in IOT Networks	Dr. Sandeep Harit
2	19305004	Palak	Computer Science & Engineering	Machine Learning based Framework for Cardiovascular Disease Risk Prediction	Prof. Shailendra Singh
3	19305005	Tamanna Sood	Computer Science & Engineering	Cancer Detection and Classification of Medical Images using Deep Learning	Prof. Rajesh Bhatia /Dr. Padmavati
4	20305001	Dipika Gupta	Computer Science & Engineering	Moving Object Segmentation for Various Surveillance Applications	Dr. Manish Kumar
5	17309001	Pankaj Mohan	Mechanical Engineering	Experimental Investigations on Fabrication of Bioabsorbable Cardiovascular Stent Minutube On Developed Setup	Prof. Alakesh Manna
6	17309002	Prashant Chechi	Mechanical Engineering	Experimental Investigations on Fabrication and Machining of Hybrid Aluminum Metal Matrix Composites	Prof. Alakesh Manna
7	18309001	Lalit Kumar	Mechanical Engineering	In Vitro Degradation Analysis of Biodegradable Magnesium Alloy Bone Scaffolds	Prof. Kamal Kumar
8	18309008	Sushma Singh	Mechanical Engineering	Performance Analysis and Optimization of Solar Parabolic Trough with 5Twisted Perforated Conical Inserts	Prof. Sushant Samir/Dr. Khushmeet Kumar

9	19309004	Sandeep Kumar	Mechanical Engineering	Fabrication and Electrochemical Discharge Machining of Natural Fibers Reinforced Green Composite	Prof. Alakesh Manna/Prof. Rakesh Dang
10	19309007	Himanshu Kumar	Mechanical Engineering	Design, Development and Analysis of PCM Based Compact Thermal Energy Storage System	Prof. Gurjeet Singh / Dr. Ankit Yadav
11	19309008	Parminder Singh	Mechanical Engineering	Investigations on Microwave Hybrid Heating Based Joining of SAF 2507 Super Duplex Stainless Steel	Prof. D.R. Prajapati /Prof. Shankar Sehgal
12	19309012	Rohit Kumar	Mechanical Engineering	"Design and Fabrication of Customized Ankle Foot Orthosis"	Prof. Parveen Kalra/Prof. Rajesh Kumar Kanda/Dr. Somya Saxen
13	20309001	Gagandeep	Mechanical Engineering	Fault Prediction of Gearbox using Industrial Internet of Things based on Vibrational Analysis	Dr. Tejbir Kaur and Dr. Sanjay Kumar Mangal
14	20309002	Saurabh Kumar Maurya	Mechanical Engineering	Polishing of Fabricated Hybrid Al(SiC+ZrO ₂ +NiTi)-MMC Flat Surface on Developed Rotary Abrasive Float Polishing Set-Up	Dr. Chander Kant Susheel / Dr. Alakesh Manna
15	18306004	Vijay Sirohi	Electrical Engineering	Design, Development and Performance Analysis of Novel Hybrid MLIs under Different Loading Conditions	Dr. Jagdish Kumar /Dr. Tejinder Singh Saggu
16	20306003	Amrita Singh	Electrical Engineering	Design, Development and Performance Evaluation of Novel Topologies of Multilevel Inverter	Dr. Sulata Bhandari / Dr. Jagdish Kumar
17	17307002	Paramjit Kaur	Electronics and Communication Engineering	Design and Analysis of an Efficient Soliton-Based Optical Communication System	Prof. Neena Gupta /Dr. Divya Dhawan
18	18307004	Jasjot Kaur Sahota	Electronics and Communication Engineering	Design and Analysis of Fiber Bragg Grating Pressure Sensor with Improved Sensitivity	Dr. Neena Gupta / Dr. Divya Dhawan
19	19308008	Sanjeev Chauhan	Production & Industrial Engineering	Design of Six Sigma Measuring System for Continuous Supply of	Dr. R.M. Belokar

				Water for City having 1 Million Population	
20	19308003	Saurabh Bhardwaj	Production & Industrial Engineering	Investigations on Rotary Assisted Powder Mixed EDM Process While Machining Monel 400	Prof. C.S. Jawalkar and Dr. Suman Kant
21	18301008	Monika	Mathematics	Cyclic Codes Over Finite Chain Rings	Prof. Sucheta /Dr. Ranjeet Sehmi
22	19301005	Nikita Jain	Mathematics	Constacyclic Codes Over Some Non-Chain Rings	Prof. Sucheta/ Dr. Ranjeet Sehmi
23	21301004	Kamalpreet Kaur	Mathematics	A Study of Nano Topological Spaces via Ideals and Graphs with their Applications	Prof. Asha Gupta
24	21301005	Abhishek Chauhan	Mathematics	New Techniques for Optimization Problems Under Different Uncertainty Environments	Dr. Sumati Mahajan
25	20301005	Kushal Singh	Mathematics	A Study of Some Topological Concepts and Properties via New Classes of Open Sets	Prof. Asha Gupta
26	19301006	Baljinder Kaur	Physics	Theoretical Investigation of Thermoelectric Properties of Chalcogenides	Prof. Shobhna Dhiman /Dr. Chandan Bera /Dr. Kulwinder Kaur
27	19301007	Ripudaman Kaur	Physics	Perovskite Oxides Superstructure for Spin-Electronic Applications	Prof. Sanjeev Kumar/Dr. Suvankar Chakraverty
28	20301008	Kamil Monga	Physics	Engineering of Oxide based Charge Transport Materials for Efficient Perovskite Solar Cells	Dr. Shilpi Chaudhary/Dr. Vasundhara Singh
29	20301007	Bindu Rani	Physics	Investigation of Thermoelectric properties of Palladium based Half-Heusler Compounds	Prof. Shobhna Dhiman /Dr. Kulwinder Kaur
30	21301007	Raman	Physics	Tailoring the Layered Double Hydroxide Nanostructures for the Development of Energy Storage Devices	Prof. Sanjeev Kumar /Prof. Shobhna Dhiman
31	18303006	Anjali Jaglan	Civil Engineering	Experimental Investigations on Effect of Ground Granulated Blast Furnace Slag and Polypropylene Fiber on	Prof. R.R. Singh

				Recycled Aggregate Concrete	
32	20303001	Ankur Sharma	Civil Engineering	Analysis of Landslide Susceptibility in the Kalka-Shimla Region using Machine Learning and Geospatial Technologies	Dr. Har Amrit Singh Sandhu
33	21303001	Rajan Dabral	Civil Engineering	Development of Release Policies of Ravishankar Sagar Reservoir Using Soft Computing Techniques	Dr. Har Amrit Singh Sandhu
34	19301301	Prihana Vasishta	Centre of Management and Humanities	Influence of Financial Literacy on FinTech Adoption: An Empirical Study	Prof. Anju Singla
35	18301201	Munish Malik	Centre of Excellence (Industrial & Production Design)	Design of Radiation hardened serializer/de-serializer for space application	Prof. Neelam Rup Prakash
36	19301003	Tamanna Dua	Chemistry	Synthesis of Phytochemical-Based Hybrids and Siderophore-Conjugates against <i>Pseudomonas aeruginosa</i>	Dr. Vasundhara Singh,/Dr. Kusum Harjai
37	19301004	Nisha Mittal	Chemistry	Sustainable Valorization of Cellulose, Hemicellulose and Lignin to Furanic Derivatives and Phenolics	Dr. Vasundhara Singh
38	20309003	Sahil Grover	Mechanical Engineering	"Investigations on Ultrasonic Assisted Rotary μ -Electrochemical Discharge Machining Process"	Prof. S.K. Mangal / Prof. Sarbjit Singh
39	17309003	Satish Kumar Soni	Mechanical Engineering	"Transport and Electro-kinetics based Binding Enhancement Strategies for Microfluidic Biosensors and Immune-assays"	Prof. Sushant Sami /Dr. Ankit Yadav
40	19309009	Gaurav Kumar Sharma	Mechanical Engineering	"Investigations of Mechanical Properties and In-Vitro Degradation of Friction Stir Processed Biocompatible Magnesium Alloy"	Prof. Kamal Kumar

5. M.TECH. DEGREE AWARDEES

Civil Engg. (Transportation Engineering)			Civil Engg. (Structural Engineering)		
Sr No.	Student ID	Name of Student	Sr No.	Student ID	Name of Student
1	23202001	Kajal Mishra	1	23204001	Nishu Devi
2	23202002	Vishal Sharma	2	23204002	Vishal Sharma
3	23202003	Shubham Sharma	3	23204003	Dikshant Joshi
4	23202004	Sharandeep Singh	4	23204005	Puneet Khanna
5	23202005	Vedik Sauhta	5	23204006	Manan Gupta
6	23202006	Lakshay Thakur	6	23204007	Tanish Madan
7	23202007	Nitin Dalal	7	23204008	Abhinav Heera
8	23202009	Samridhi Sharma	8	23204009	Abhinav Jain
9	22202001	Savjot Singh Bains			
10	21202011	Dinkar Jain			
Computer Science and Engineering					
Sr No.	Student ID	Name of Student	Sr No.	Student ID	Name of Student
1	23205001	Tarun Singh	11	23205014	Gaganrajdeep Singh
2	23205002	Mohit Saini	12	23205015	Sonal Singh
3	23205004	Ishaan Garg	13	23205016	Saksham Thakur
4	23205005	Deepanshu	14	23205017	Aryan Pathania
5	23205007	Sehajpreet Singh	15	23205018	Nandni
6	23205008	Harsehaj Ahuja	16	23205019	Girish Pandey
7	23205009	Karan Singh Thakur	17	23205020	Sourabh Sharma
8	23205010	Simran Bhatia	18	23205021	Agrim Attri
9	23205012	Shreya Sharma	19	23205022	Vidit Singh Mohil
10	23205013	Vaibhav Gagneja			
Electrical Engineering					
Sr No.	Student ID	Name of Student			
1	23206001	Jagat Singh Matharu			
2	23206003	Shubham Dhiman			
Aerospace Engineering					
Sr No.	Student ID	Name of Student			
1	23208001	Parag Garg			
Mechanical Engineering					
Sr No.	Student ID	Name of Student			
1	23209001	Jashanjit Singh			
2	23209002	Jasdees Singh			
3	23209003	Sagar			
4	23209004	Mohit Sharma			
5	23209005	Vikas Rana			
6	23209006	Manjinderpal Singh			
7	23209004	Parth Rinwa			

Electronics (VLSI Design)		
Sr No.	Student ID	Name of Student
1	23215001	Prateek Tripathi
2	23215002	Piyush Goyal
3	23215003	Loveneen Dhiman
4	23215004	Kanika Gupta
5	23215005	Naman Rana
6	23215006	Tavishi Baigra
7	23215007	Deepak Pahil
8	23215008	Vinayak Sharma
9	23215009	Puneet Nayyar

6. B. TECH DEGREE AWARDEES

Aerospace Engineering		
Sr. No.	Student ID	Name of Students
1	21101001	Harshil Helik
2	21101003	Yashvendra Singh Bhadoria
3	21101004	Sathvika Balasubramanian
4	21101005	Meetnain Kaur
5	21101006	Prashant Kumar
6	21101007	Dipak Jana
7	21101009	Yatish Taneja
8	21101010	Hemaldeep Lohtia
9	21101011	Lavanya Krishan Sharma
10	21101014	Abhinav Sharma
11	21101015	Ananya Kaul
12	21101017	Aditya Sharma
13	21101018	Vaibhav Mehra
14	21101019	Rajwinder Singh
15	21101020	Aniket
16	21101021	Harsh Agarwal
17	21101022	Harsh Pratap Singh
18	21101024	Shivansh Srivastava
19	21101025	Vidhi Arya
20	21101026	Mehak Panwar
21	21101027	Kesia Ajith
22	21101028	Suryaveer Singh Rathore
23	21101029	Astha Patel
24	21101030	Kanwalpreet Kaur
25	21101032	Jitarth Rai
26	21101035	Suneel Kumar Deen
27	21101036	Kartik Kumar
28	21101037	Akanksha
29	21101038	Shlok Matha
30	20101015	Vishal
31	20101033	Guguloth Moolya Sree

Civil Engineering		
Sr. No.	Student ID	Name of Students
1	21102002	Maninder Singh Soodan
2	21102003	Palak Sharma
3	21102005	Dheeraj Kumar
4	21102007	Kuvam Singh
5	21102008	Dheeraj Singh
6	21102011	Kartikay Bhatia
7	21102012	Ashish Bharti
8	21102013	Priyanka
9	21102014	Moksh Bhardwaj
10	21102015	Himanshu Hooda
11	21102016	Amanjot Singh
12	21102017	Rishant Thakur
13	21102018	Kashish Aggarwal
14	21102019	Kopal Sharma
15	21102022	Bhupesh Chaudhary
16	21102023	Devansh Kingra
17	21102024	Sajit Bhola
18	21102025	Hitanshi Sharma
19	21102026	Ayush Kaushik
20	21102027	Tushar Yadavendu
21	21102028	Inayat Kaur Shah
22	21102030	Akshat Mittal
23	21102031	Parth Anand
24	21102032	Anoop Kumar
25	21102034	Shivansh Khurana
26	21102036	Anshula Sharma
27	21102037	Aryan Goyal
28	21102039	Kushagra Singal
29	21102040	Harshit Tyagi
30	21102041	Aditya Chhibber
31	21102042	Harsh
32	21102043	Harshbir Singh
33	21102044	Abhishek
34	21102045	Shrey Yadav
35	21102046	Bhunesh Kansal
36	21102047	Vishwajeet Yadav
37	21102048	Manish Sharma
38	21102049	Rishaan Singla
39	21102051	Gaurish Sharma
40	21102054	Anubhav Garg
41	21102055	Chirag Gupta
42	21102056	Bhanu Partap Singh
43	21102057	Abhiraj Singh Virk
44	21102059	Janhavi Deshmukh

45	21102060	Rahul Rana
46	21102062	Simran
47	21102063	Priyanka
48	21102064	Simranjit Kaur
49	21102065	Angad Deep Singh
50	21102066	Gurjashanpreet Singh
51	21102067	Rakshit Gondwal
52	21102068	Rudransh
53	21102069	Dev Bohat
54	21102071	Yuvraj Singh
55	21102072	Vishal Singh
56	21102073	Vicky Kumar Singh
57	21102075	Digvijay Singh Rathore
58	21102076	Abhineet Mishra
59	21102077	Vishwash Shukla
60	21102079	Tarunveer Singh
61	21102080	Gazalveer Kaur
62	21102083	Aniket Kalia
63	21102084	Tushant Bansal
64	21102085	Arnav Sharma
65	21102087	Sukhbir Singh
66	21102088	Aryan Wazir
67	21102089	Ansh Sharma
68	21102091	Tushar
69	21102092	Vedant Ojha
70	21102094	Shaily Shambhavi
71	21102095	Sayam Gupta
72	21102096	Siddharth Kulshrestha
73	21102097	Aryan Kumar
74	21102098	Parth Garg
75	21102099	Auchitya Sharma
76	21102100	Udit Punera
77	21102101	Kuldeep Sharma
78	21102102	Ankit Jandial
79	21102105	Akhil Makkar
80	21102106	Anand Gautam
81	21102107	Vansh Singh
82	21102108	Kapil Garg
83	21102109	Saket Shubham
84	21102110	Tushar Singh
85	21102112	Adarsh Vishwakarma
86	21102114	Debanshi Rajput
87	21102115	Rajat Kumar
88	21102116	Aditya Kumar Singh
89	21102117	Adarsh Patel
90	21102118	Rishi Dixit
91	21102119	Martin

92	21102120	Anish Lotra
93	21102121	Deepesh Kumar
94	21102122	P P Amush
95	21102123	Sumit Karan Singh
96	21102124	Divyanshu Gupta
97	21102125	Himanshu Rathoria
98	21102126	Karan Rai
99	21102127	Abhishek Narine
100	21102128	Ramit Naval
101	21102129	Animesh Negi
102	21102130	Lakshya H Y Meemroth
103	21102132	Nyayi Lombi
104	20102050	Riya

Computer Science and Engineering

Sr. No.	Student ID	Name of Students
1	21103002	Nikita Sharma
2	21103003	Ramandeep Singh
3	21103004	Aryaveer Singh
4	21103005	Nikita Samyal
5	21103007	Aryan Arora
6	21103008	Ragvender Arya
7	21103009	Yuvraj Singh
8	21103010	Gurnoor Singh
9	21103011	Sanchita Goel
10	21103012	Sharang Kalra
11	21103013	Jyoti Dixit
12	21103014	Lovepreet Singh
13	21103015	Ishaan Garg
14	21103016	Vaishnav Sasidharan Pillai
15	21103017	Anureet Sandhu
16	21103018	Keshav Singla
17	21103019	Aditya Gupta
18	21103020	Prajwal Sharma
19	21103021	Ankit Sharma
20	21103022	Ansh Gaur
21	21103023	Saurabh Pandey
22	21103024	Gaurav Goyal
23	21103025	Anmol Garg
24	21103026	Chirag Garg
25	21103027	Nalin Kumar Gupta
26	21103028	Ankur Gupta
27	21103029	Kamalpreet Singh Bachhal
28	21103030	Abhinav Aggarwal
29	21103031	Ansh Raj Sharma
30	21103032	Vaibhav Sheokand
31	21103033	Vaasu Bansal

32	21103034	Dhawal Arora
33	21103035	Nandini Gera
34	21103036	Vishav Garg
35	21103037	Aaersh Kumar
36	21103038	Pushkar Garg
37	21103039	Shaunak Gupta
38	21103040	Vatsal Chawla
39	21103041	Yajat Mehta
40	21103042	Akshit Saini
41	21103043	Ishaan Sharma
42	21103044	Sanidhya Sharma
43	21103045	Geetanshu Garg
44	21103046	Raghav Aggarwal
45	21103047	Arin Kothari
46	21103048	Vaibhav Maithani
47	21103049	Yuvraj Singh Birdi
48	21103050	Ankit Bhalla
49	21103051	Priyanka Soni
50	21103052	Gautam
51	21103053	Ritish Tejpal
52	21103054	Rithik Garg
53	21103055	Jaskeerat Singh
54	21103056	Yashita Bansal
55	21103057	Arsh Sharma
56	21103058	Harkaran Singh Bal
57	21103059	Chetan Mittal
58	21103060	Sukhmanpreet Singh
59	21103061	Muskan
60	21103062	Rajat Kumar
61	21103063	Harsh Sarwal
62	21103064	Nanakdeep Singh Sidhu
63	21103065	Shubham Kohli
64	21103066	Deepanshu Choudhary
65	21103067	Loveneet
66	21103068	Vanshaj
67	21103069	Varun Kumar
68	21103070	Kanish Mahato
69	21103071	Manik Jatana
70	21103072	Prakhar Kumar Gupta
71	21103073	Daksh Khandelwal
72	21103074	Peeyush Kaushik
73	21103075	Deepank Khera
74	21103076	Shreyansh Gupta
75	21103077	Milan Agarwal
76	21103078	Deepanshu
77	21103079	Ujjawal Gupta
78	21103080	Akash Rout

79	21103082	Yashan Setia
80	21103084	Sparsh Singh Bhatia
81	21103085	Atul Kumar Gupta
82	21103086	Deepak Gupta
83	21103087	Jashanjit Singh
84	21103088	Tejvir
85	21103090	Anurag Narula
86	21103091	Sarthak Maheshwari
87	21103092	Peyush Jindal
88	21103094	Ishita
89	21103095	Harsh Rishi Miglani
90	21103096	Harsh Goyal
91	21103098	Akshit Narang
92	21103099	Pratham Bansal
93	21103100	Kartik Mittal
94	21103101	Prranav Babbar
95	21103103	Piyush Garg
96	21103104	Divyanshu
97	21103105	Pratham Bansal
98	21103106	Jasraj Singh Sohanpal
99	21103107	Mishank Kumar
100	21103108	Manik Bansal
101	21103109	Prabhav Bajaj
102	21103110	Anshuman Kalra
103	21103111	Nishad Kookana
104	21103112	Tanish Kalra
105	21103113	Rhythm Kad
106	21103114	Anmol Gupta
107	21103117	Sushant Bhatia
108	21103118	Sunpreet Singh
109	21103119	Saachika Paul
110	21103120	Ravinder Kumar
111	21103121	Arush Kumar
112	21103123	Onkar Ram
113	21103124	Prabhjot Singh
114	21103125	Sushant Kumar
115	21103126	Sanchit Thakur
116	21103127	Chaitanya Kanhar
117	21103128	Krushna Shriram Birhare
118	21103129	Aakrit Neupane
119	21103130	Raghav Goel
120	21103131	Dhruv Goyal
121	21103132	Amisha Kanwar
122	21103133	Apurav Goel
123	21103134	Hemang Bansal
124	20103086	Aditya Goel
125	20103105	Tarundeep Singh

Electrical Engineering		
Sr. No.	Student ID	Name of Students
1	21104001	Kashyap Raina
2	21104002	Naheed Anjum
3	21104003	Abhinav Sharma
4	21104005	Aakshita Shourie
5	21104006	Aryan Uppal
6	21104007	Sneha Prabhakar
7	21104008	Samit Madhesiya
8	21104010	Rasneet Kaur
9	21104011	Amiti
10	21104012	Sumit Kumar
11	21104013	Deepankshu Gautam
12	21104015	Dolfy
13	21104016	Gurvire Singh
14	21104017	Shiven Goyal
15	21104019	Sahil Sharma
16	21104022	Sanjosh Gahlyan
17	21104023	Nitesh Bhardwaj
18	21104025	Aakanksha Kataria
19	21104026	Sehaj
20	21104028	Aditya Kumar
21	21104029	Arjun Datta
22	21104030	Dheeraj Batra
23	21104031	Lakshay Batra
24	21104032	Rajat Garg
25	21104033	Ashutosh Taneja
26	21104034	Ruby Chawla
27	21104035	Mayank Uppal
28	21104036	Aryan Sheoran
29	21104037	Vivek Tiwari
30	21104038	Ramneek Kaur
31	21104040	Daanisha Singla
32	21104042	Vishnu Bansal
33	21104043	Pratyush Soni
34	21104044	Ayush Aggarwal
35	21104045	Aspan Dhillon
36	21104046	Kunal Singla
37	21104047	Harshita Upadhyay
38	21104048	Sparsh Aggarwal
39	21104049	Shivansh Gaur
40	21104050	Sahil Singh Bhandari
41	21104051	Arshit Verma
42	21104052	Pooja Gusain
43	21104053	Chanpreet Kaur
44	21104054	Lakshanya Jindal

45	21104055	Haramrit Singh
46	21104056	Sakshi Batra
47	21104057	Akhilesh Goel
48	21104058	Divik Satija
49	21104059	Jatinder Pal Singh
50	21104060	Dhruv Bhushan
51	21104061	Tanveer Singh
52	21104062	Shivam Dhiman
53	21104063	Kuldeep Singh
54	21104064	Vishwas
55	21104065	Amandeep Singh
56	21104066	Gourav
57	21104070	Rishabh Bhargava
58	21104071	Harsh Vaish
59	21104072	Abhishek Nautiyal
60	21104073	Vaibhav Gupta
61	21104075	Gautam Sharma
62	21104076	Saksham Beniwal
63	21104077	Jatin Kharbanda
64	21104078	Gautam Singal
65	21104079	Tanish Bansal
66	21104080	Akshit Singhal
67	21104081	Ravinoor
68	21104082	Shourya Mishra
69	21104083	Chiranjeev Marwaha
70	21104084	Prem Shankar
71	21104085	Garv Bansal
72	21104087	Abhishek Thakur
73	21104088	Kumar Rishi
74	21104089	Divyam Jain
75	21104090	Prabhnoor Singh Narang
76	21104091	Yogesh Gupta
77	21104092	Kabir Sharma
78	21104093	Garvit Gupta
79	21104094	Vaibhav
80	21104095	Rishav Jindal
81	21104096	Kunal Sharma
82	21104097	Harman Singh Suri
83	21104098	Devank Garg
84	21104099	Mehul Bansal
85	21104100	Harshit Thakur
86	21104101	Sarthak Garg
87	21104102	Harsh Shukla
88	21104103	Rishit Sehgal
89	21104104	Sidak Apaar Singh
90	21104105	Asmit Saha
91	21104106	Anurag Garg

92	21104107	Yuvraj Chawala
93	21104108	Shreya
94	21104110	Varun Sharma
95	21104111	Vipin Bansal
96	21104115	Harsimrat Kaur Gill
97	21104116	Harsh
98	21104117	Deepkanwalpal Singh Sidhu
99	21104119	Hemant
100	21104120	Amal Swaroop Banswal
101	21104122	Yogesh
102	21104123	Prashant
103	21104124	Vivek Kumar Rahul
104	21104125	Keshav Singh
105	21104126	Pranav Singh
106	21104127	Alok Kumar Vishwakarma
107	21104128	Ravishankar Kumar
108	21104129	Manobal Singh Bagady
109	21104130	Ketan
110	21104131	Rohan Srivastava
111	21104132	Harshit Aggarwal
112	21104133	Rounak Chatterjee
113	21104134	Hemant Sharma
114	21104135	Manya Sharma
115	21104136	Shruti Garg
116	21104137	Kanishk
117	21104138	Kavya Sao
118	21104139	Vasu Singal
119	21104140	Sargun Singh
120	21104141	Chhavi
121	21104142	Ankit
122	21104143	Sanjeevani Jawalkar
123	20104128	Ajayvir Singh Grewal
124	20104129	Tejvansh Singh Mangat
125	20104144	Arnav Sood

Electronics and Communication Engineering

Sr. No.	Student ID	Name of Students
1	21105001	Ayush Kher
2	21105002	Armeen Singh
3	21105003	Harman Singh
4	21105004	Pankaj Kumar
5	21105005	Soumil Arora
6	21105007	Ridhima
7	21105008	Deep Choudhary
8	21105009	Vivek Yadav
9	21105010	Akshat Shrinat

10	21105011	Vivek Jaiswal
11	21105012	Diljaan Singh
12	21105013	Harsh Goyal
13	21105014	Prayag Sharma
14	21105015	Naman Goyal
15	21105016	Ramya
16	21105017	Umang Gaur
17	21105018	Arpit Singhal
18	21105019	Mudit Madan
19	21105020	Ayush Goyal
20	21105021	Sugam Arora
21	21105022	Harsh Kumar
22	21105023	Gungun
23	21105024	Sukrit Malhotra
24	21105025	Namit Kulshrestha
25	21105026	Muskaan Aneja
26	21105027	Anant Sawhney
27	21105028	Mayank Jindal
28	21105029	Himanshu Goyal
29	21105030	Akshaj Paintola
30	21105031	Gunjan Rawat
31	21105032	Avi Garg
32	21105033	Ritvik Arora
33	21105034	Aaryan Abbot
34	21105035	Ketan Mattoo
35	21105036	Sujal Aggarwal
36	21105037	Chirag Gupta
37	21105039	Jatin Singh Bisht
38	21105040	Aryan Singh
39	21105041	Prashant Kumar Singh
40	21105042	Sarthak Kalia
41	21105043	Mehul Mangla
42	21105044	Aryana Sharma
43	21105045	Vishesh Mittal
44	21105046	Lakshay Sheokand
45	21105047	Shreya Jindal
46	21105048	Pranzal Sharma
47	21105049	Ayush Kansal
48	21105050	Himanshu Bansal
49	21105051	Abhinav Malhotra
50	21105052	Guneet Singh Pannu
51	21105053	Harmanpreet Singh
52	21105054	Karan Nanda
53	21105055	Sunandan Aggarwal
54	21105056	Vishesh Indora
55	21105057	Deepak Kalyan
56	21105058	Rahul

57	21105059	Harsh Chhachhia
58	21105060	Priyanshu
59	21105061	Sukhwinder Kaur
60	21105062	Deep Shikha
61	21105063	Hitin Bhagat
62	21105065	Maanak Jindal
63	21105066	Vishvjeet Thakur
64	21105067	Utkarsh Gautam
65	21105068	Jitesh Singla
66	21105069	Yash Kumar Mittal
67	21105070	Dhruv Agrawal
68	21105071	Mukul Goyal
69	21105072	Prashant Jyoti
70	21105073	Aniket Gupta
71	21105075	Nimarpreet Singh
72	21105076	Chirag Gupta
73	21105077	Robin Singh
74	21105078	Vedansh Singh
75	21105079	Vanshul Goyal
76	21105082	Disha Aggarwal
77	21105083	Vasuman Garg
78	21105084	Nakul Garg
79	21105085	Aditya Kansal
80	21105086	Roshan Tripathi
81	21105087	Om Vaish
82	21105088	Pankaj
83	21105089	Adarsh Mandloi
84	21105090	Sajjal Rana
85	21105091	Nitin
86	21105092	Jazbaat Bhullar
87	21105093	Akshat Dutta
88	21105094	Tushar Garg
89	21105095	Pranav Aggarwal
90	21105096	Keshav Bansal
91	21105097	Keith Swamy
92	21105098	Hansel Goyal
93	21105099	Divyam
94	21105100	Samarth Shridhar Natrajan
95	21105101	Aditya Singla
96	21105102	Anmolpreet Singh
97	21105103	Harsh Seth
98	21105104	Vidit Sarin
99	21105105	Saket
100	21105106	Himanshu
101	21105107	Manav Goyal
102	21105108	Abhay Sharma
103	21105110	Shubhendu Roy

104	21105113	Anjali
105	21105114	Rishabh
106	21105115	Kalash Chetiwal
107	21105116	Abhijeet Chandra
108	21105117	Nitin Singh
109	21105118	Rajdeep Singh
110	21105119	Ashwin Jaiprakash Toppo
111	21105120	Abhisek Meena
112	21105121	Rewant Pahuja
113	21105122	Madhav
114	21105123	Anirudh Ralhan
115	21105124	Supriyo Mohanty
116	21105125	Shivansh Anand
117	21105126	Kriti Jain
118	21105127	Navneet Yadav
119	21105128	Prakul Bhatia
120	20105105	Aayush Gothwal

Mechanical Engineering

Sr. No.	Student ID	Name of Students
1	21107001	Aayush Pratap Toshkhani
2	21107002	Khushi Yadav
3	21107003	Aditya Kundu
4	21107004	Syed Ansarul Haque
5	21107005	Harshvardhan
6	21107007	Abhishek Tomar
7	21107008	Nikhil Saini
8	21107009	Subhabrato Pal
9	21107010	Lalit Kumar
10	21107011	Uttam Jain
11	21107012	Udit Vashisht
12	21107013	Arham Jain
13	21107015	Gautam Singla
14	21107017	Adesh Pal Singh Chhina
15	21107018	Akshit Sharma
16	21107020	Yakshit Verma
17	21107022	Rajbir Singh
18	21107023	Shikhar Saxena
19	21107025	Dheeraj Sharma
20	21107026	Ayush Naithani
21	21107029	Sachin Singh
22	21107030	Rohit Kumar Singh
23	21107031	Pratham Sharma
24	21107032	Deshth Nandra
25	21107033	Vaibhav Garg

26	21107034	Mayank Bhatnagar
27	21107035	Bhavya Verma
28	21107036	Krushni Arora
29	21107037	Gursimar Singh
30	21107038	Madhav Chaudhary
31	21107039	Yuvraj Singh
32	21107040	Ashmita Monga
33	21107042	Shubham
34	21107044	Gunmay Singla
35	21107045	Arjit Malhotra
36	21107046	Yuvraj Chaudhary
37	21107047	Rajat Singh Bisht
38	21107049	Keshav Mathur
39	21107050	Lakshay Garg
40	21107051	Survagya Bali
41	21107052	Gurkirat Singh
42	21107053	Kuber Garg
43	21107054	Ayush Srishti
44	21107055	Pulkit Dhiman
45	21107056	Yash Kumar Masani
46	21107059	Ishmeet Kaur
47	21107060	Aditya Madaan
48	21107062	Tanveen Kaur
49	21107063	Lakshya Deep Singh Rajawat
50	21107064	Dhruv Aggarwal
51	21107065	Sushain Sanan
52	21107066	Danish Akhtar
53	21107068	Sumit
54	21107069	Harshveer Singh
55	21107071	Raghav Garg
56	21107073	Bhavuk Sindhvani
57	21107074	Yash Raj Singh
58	21107076	Shubman Singh
59	21107077	Nikesh Bandhu
60	21107078	Shorya Aggarwal
61	21107082	Navodit Gupta
62	21107083	Yash Vashishth
63	21107084	Saket Priyadarshi
64	21107085	Dipanshu Panda
65	21107086	Pankaj Gupta
66	21107087	Mudransh Sethi
67	21107088	Navya Garg
68	21107089	Naman Sharma
69	21107090	Shashwat Singh
70	21107092	Keshav Sharma
71	21107093	Yash Pareek
72	21107094	Pulkit Dembla

73	21107095	Mehul Sethi
74	21107096	Prashant Tiwari
75	21107097	Mohit
76	21107098	Aman Sharma
77	21107099	Yishu Bansal
78	21107100	Ritunjai Nagpal
79	21107101	Chinmay Goyal
80	21107102	Madhur Goel
81	21107103	Anushka Gupta
82	21107104	Harsh Kumar
83	21107105	Areen Sharma
84	21107106	Shreyash Raj
85	21107108	Navdish Chander
86	21107109	Divyanshu Verma
87	21107110	Jivesh Kumar
88	21107112	Vinayak
89	21107113	Soumik Das
90	21107114	Ranga Abhishek Ashok
91	21107115	Rajat Kumar
92	21107116	Ashish Kumar
93	21107117	Kapil Meena
94	21107118	Tushar Meena
95	21107119	Tashi Dandup Negi
96	21107120	Aayush Bhalla
97	21107121	Aditya Anand
98	21107122	Vaibhav Aswal
99	21107123	Aryan Sharma
100	20107050	Mohit Kumar

Metallurgical and Materials Engineering

Sr. No.	Student ID	Name of Students
1	21108002	Areedeeep Roy
2	21108003	Gurbani Kaur
3	21108005	Jaivardhan Chopra
4	21108006	Manisha Kumari
5	21108007	Agriti Rampal
6	21108008	Satyam Tiwari
7	21108009	Piyusha
8	21108011	Diwakar Shukla
9	21108012	Kritika
10	21108013	Manjeet Singh
11	21108014	Saksham Saini
12	21108015	Aman Singh
13	21108016	Kehkasha Arora
14	21108017	Muskaan Singal
15	21108018	Amanpreet Singh
16	21108019	Aastha Chopra

17	21108020	Jitendera Yadav
18	21108021	Utkarsh
19	21108022	Raghav Jindal
20	21108024	Arnav Sharma
21	21108025	Ganesh Dutt
22	21108026	Dinesh
23	21108027	Lakshay Sharma
24	21108028	Aayush Sood
25	21108029	Subhash Kumar
26	21108030	Esharpreet Singh
27	21108031	Karan
28	21108033	Manish Sharma
29	21108035	Dhruv Gaur
30	21108037	Sanskar Raghuvanshi
31	21108038	Shivam Kumar
32	21108039	Rajesh Kumar
33	21108045	Anjali Patni
34	21108046	Monalisha Dash
35	21108049	Jitanshu
36	21108050	Arinjoy Nandy
37	21108051	Harsh Raj
38	21108053	Rohit Kumar
39	21108055	Purnendu Sarkar
40	21108057	Praveen Kumar
41	21108059	Neeraj Verma
42	21108060	Somen Mondal
43	21108061	Shailesh Swaroop
44	21108062	Aritra Mandal
45	21108063	Praveen Kumar
46	21108064	Banavath Sai Kiran Naik
47	21108066	Sauradip Roy
48	20108063	Vikramaditya Vishnu Vajire

Production and Industrial Engineering

Sr. No.	Student ID	Name of Students
1	21109001	Anshu
2	21109002	Alisha
3	21109003	Karnav Preet Singh
4	21109004	Parth Jain
5	21109006	Sanchit Bhalla
6	21109007	Atulya Sharma
7	21109008	Pranav Singla
8	21109009	Sameer Pathak
9	21109012	Risible Katyal
10	21109013	Ishaan Bahl
11	21109015	Jaiansh Kapur
12	21109016	Hemang Sharma

13	21109017	Harsh
14	21109018	Tushar
15	21109019	Anish Partap Singh
16	21109021	Shashwat Rai
17	21109022	Mohan Dubey
18	21109023	Jatin Gakhar
19	21109026	Harshit
20	21109029	Padam Kansal
21	21109030	Kshitiz Talwar
22	21109031	Gopal Verma
23	21109032	Shashwat Singh
24	21109033	Amritash Sharma
25	21109034	Shubh Jaiswal
26	21109035	Reeshav Chowdhury
27	21109036	Saksham Malhotra
28	21109038	Rhythm Das
29	21109039	Vaibhav Verma
30	21109041	Amit Kumar Meena

VI. DEPARTMENTS

1. AEROSPACE ENGINEERING



Prof. Rakesh Kumar

WORDS FROM HOD: - Aerospace Engineering Department was set up in 1962 in the name of Aeronautical Engineering. Punjab Engineering College is the first Institute in India to offer Aerospace/Aeronautical Engineering. The graduates of this department have carved a niche in the field of Aerospace Technology at National and International level. The department feels proud of the illustrious alumni like late (Dr.) Kalpana Chawla, astronaut of NASA's Space Shuttle mission and many more like her who have brought laurels to their alma mater. The department is well equipped with laboratories and workshops which help students to gain practical knowledge. The department has developed excellent research facilities leading to PhD degree in the area of supersonic aerodynamics and Pulse Detonation Engine technology. The dedicated faculty of this department has rich experience of teaching and industry that are competent to sharpen the skills of the students.

ABOUT THE DEPARTMENT

Started in 1962 the Department of Aerospace Engineering has over the years adapted and improved with the fast pace of technology. A sincere and hardworking student body and wholehearted support of the dedicated faculty have contributed in no small measure to the professional successes enjoyed by a good number of individuals who graduated from this department. The department has been continually changing and evolving to meet the needs of modern industry and to train its students to pursue their goals with concentrated determination that has led former students to the greatest heights in their endeavour no matter what responsibility they choose to assume.

With rapid changes in the professional world the department has also focused on the drawing of the information age and has established new courses and laboratory facilities with the aim of supplying their students with every tool they need to succeed in the fast-changing landscape of the modern professional arena. Thus, the department ensures the students the versatility to adapt to the dynamic and fast-moving world and its many industries



PROGRAMMES OFFERED

- **Bachelor of Technology:** Aerospace Engineering Department of Punjab Engineering College, Chandigarh gave India its first batch of *Aeronautical Engineering graduates in the year 1964. Currently the department offers Bachelors in Technology in Aerospace Engineering. The students learn different aspects including theoretical, practical and industrial training pertaining to core aerospace engineering.* Every year, a total of thirty seats are offered to students from India and Abroad. The curriculum includes computational and practical experiments in core subjects like Aerodynamics, Structures, Propulsion and Computational Fluid Dynamics. The programme syllabus is designed in order to teach theory and applications in Aerospace. The programme helps to equip students with professional and communication skills.
- **Master of Technology:** Aerospace Engineering Department of PEC, Chandigarh has initiated its Masters in Aerospace Engineering program which commenced from July 2022. The students will develop an ability to independently carry out research / investigation and development work to solve practical problems. Students will acquire an ability to write and present a substantial technical report/ document. Students will be able to demonstrate Degree of Master over the area as per the specialization within the Aerospace Engineering program and identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using the knowledge acquired in course work. A total of eighteen seats has been offered to students from India and Abroad through Graduate Aptitude Test in Engineering (GATE), with seats for industry sponsored candidates. The curriculum includes computational and practical experiments in advanced subjects like Aerodynamics, Structures, Propulsion and Computational Fluid Dynamics. The programme syllabus is designed in order to teach scientific research, theory and applications in Aerospace Engineering. The programme helps to equip students with professional and communication skills.
- **Doctor of Philosophy:** Aerospace Engineering department runs Ph.D. program in Aerospace engineering and the research scholars work on cutting edge problems to further advance the boundaries of Aerospace Engineering.

LABORATORY FACILITIES:

➤ Aerodynamic Lab

- Low Speed Subsonic Wind Tunnel
- Smoke Tunnel
- Low speed Blow Type Wind Tunnel
- Supersonic Open-jet Wind Tunnel with data acquisition system
- Hypersonic Reddy-Shock Tunnel



➤ **Propulsion Lab**

- Combustion Lab Unit
- Engine test rig
- DART engine
- Avon engine
- Griffon engine
- Gypsy Major engine
- Goblin engine
- MIG-21 engine with after-burner
- Radial engine
- Mi-8 Helicopter engine
- PDE

➤ **Flight Simulation Lab**

Flight Simulator (newly added)

➤ **Airframe and Instrumentation Lab**

➤ **Aircraft Structures Lab**

➤ **Computational Lab equipped with various software packages**

(ii) Products developed and equipment added:

Product development	• Nil
Research Laboratories	➤ Pulse Detonation Research Lab ➤ Hypersonic Flow Research Lab ➤ Super Sonic Research Lab ➤ Upgraded Low-speed subsonic wind tunnel • Hot wire anemometer • 32-channel DAQ for pressure measurements • Load cell for force measurement
Instructional Material	• Developed a course for SWAYAM portal by Dr. Rakesh Kumar • Developed instructional material for online teaching • Curriculum developed for PG Course • Instructional material developed for new facilities
Working models/ charts etc.	• Engine test rig. • Laser cutting machine • MIG-21 Striker aircraft (de-commissioned) • Flight control demo system • Printing and installation of a number of charts in the laboratories.

Research and Consultancy Facilities: -**Computational Lab equipped with various software packages**➤ **Pulse Detonation Research Lab**➤ **Aerodynamic Lab**

- Low Speed Subsonic Wind Tunnel
- Smoke Tunnel
- Low speed Blow Type Wind Tunnel
- Supersonic Open-jet Wind Tunnel with data acquisition system
- Hypersonic Reddy-Shock Tunnel

➤ **Aircraft Engine Lab**

- Engine test rig and various types of engines

➤ **Aircraft Structures Lab**➤ **Laser cutting Machine**➤ **Research Project**

Name of the Faculty	Title of the program/project	Amount (Lakhs)	Funding Agency
Dr. Rakesh Kumar Dr. Poonam Saini	Automatic Target Interception using Fixed-wing UAV	147.24	TBRL, DRDO

Research Laboratories	➤ Pulse Detonation Research Lab ➤ Hypersonic Flow Research Lab ➤ Super Sonic Research Lab ➤ Upgraded Low-speed subsonic wind tunnel • Hot wire anemometer • 32-channel DAQ for pressure measurements • Load cell for force measurement
Instructional Material	• Developed a course for SWAYAM portal by Dr. Rakesh Kumar • Developed instructional material for online teaching • Curriculum developed for PG Course • Instructional material developed for new facilities
Working models/ charts etc.	• Engine test rig. • Laser cutting machine • MIG-21 Striker aircraft (de-commissioned) • Flight control demo system • Printing and installation of a number of charts in the laboratories.

FACULTY MEMBERS

S. No.	Name of the Faculty Members	Designation
1	Rakesh Kumar	Professor & Head
2	Tejinder Kumar Jindal	Professor
3	Rajesh Kumar	Assistant Professor
4	Tushar Siag	Assistant Professor
5	Prabhjeet Singh	Assistant Professor (Temporary Faculty)
6	Konark Arora	Assistant Professor (Temporary Faculty)
7	Salahuddin	Assistant Professor (Temporary Faculty)

2. MATHEMATICS DEPARTMENT



Prof. Asha Gupta

WORDS FROM HOD

Mathematics considered as queen of science plays a vital role in technological developments. For the growth of science and technology, it is crucial that there is progress in the field of mathematics. All branches of engineering require rigorous background of mathematics.

The word engineering comes from the Latin word “ingenerare,” which means “to create.” Engineering is a science where the forces of nature are converted for the utility of mankind. Mathematics is a critical aspect of engineering as it provides the tools and techniques necessary for modeling and analyzing complex systems. Mathematics department offers various courses to cater to the need of Engineering departments. The objective of the department of Mathematics is to transform young students into competent and motivated professionals with sound theoretical knowledge and practical skills. Mathematics department is striving hard to inculcate analytical and reasoning abilities in students to enable them to be as productive citizens and prepare them well for their professional and social life. Mathematics department is extensively engaged in teaching as well as research activities. It strives to be recognized for academic excellence through the depth of its teaching and research.

ABOUT THE DEPARTMENT



The Department of Mathematics became independent in December 2022, after functioning earlier as part of the Department of Applied Sciences. It offers two compulsory courses to B.Tech. 1st year Calculus and Linear Algebra, Differential Equations, and Vector Calculus with practicals introduced under the new UG scheme from August 2023. A dedicated lab equipped with *Mathematica* software supports better understanding of mathematical concepts.

In addition, the Department offers open electives such as Operations Research, Optimization Techniques, Algebra, Number Theory, Fourier Series, Algebraic Coding Theory, and Topology for higher semesters, along with advanced mathematics courses like Fourier Transforms, Numerical Methods, and Algebra for postgraduate students.

Faculty members are actively engaged in diverse research areas including Topology, Rough Set Theory, Coding Theory, Multi-Objective Optimization, Operator Theory, Abstract Harmonic Analysis, and Fractal Geometry. The Department offers facilities for Ph.D. research, with five doctorates awarded, two theses submitted, and ten students currently pursuing their Ph.D. programs. All faculty members hold doctoral degrees.

From 2024-25, the Department has introduced a B.Tech. in Mathematics and Computing, an interdisciplinary program blending mathematics and computer science to equip students with both theoretical and practical skills. The program prepares graduates to tackle complex real-world challenges, with applications across finance, technology, data science, and research.

LABORATORY FACILITIES: -

The Department of Mathematics at Punjab Engineering College, has one lab where facilities are designed to offer students an immersive learning experience. Equipped with computers featuring Mathematica software, supports practical work in mathematics courses.

Our facilities boast modern amenities including a digital podium, Panasonic Interactive Flat Panel, and Globus Projector, ensuring interactive and engaging sessions.

With a capacity to accommodate 30 students simultaneously, our air-conditioned labs offer a comfortable and conducive environment for learning. Furthermore, our facilities are equipped with two printers, facilitating student's practical needs. By doing experiments and working together on projects, students learn important skills and gain valuable knowledge.



FACULTY MEMBERS

Sr.No.	Name of Faculty	Designation
1.	Dr. Sucheta	Professor
2.	Dr. Asha Gupta	Professor & Head
3.	Dr. Sumati Mahajan	Associate Professor
4.	Dr Rattan Lal	Assistant Professor
5.	Dr. Ankit Kumar	Assistant Professor
6.	Dr. Sandeep Dalal	Assistant Professor (Temporary Faculty)
7.	Dr. Swati Bhardwaj	Assistant Professor (Temporary Faculty)
8.	Dr. Barkha	Assistant Professor (Temporary Faculty)
9.	Dr. Ridhima Thakral	Assistant Professor (Temporary Faculty)
10.	Dr. Himanshi	Assistant Professor (Temporary Faculty)
11.	Ms. Kamalpreet Kaur	Assistant Professor (Temporary Faculty)
12.	Dr Manisha	Assistant Professor (Temporary Faculty)
13	Prof. Mansi	Assistant Professor (Guest Faculty)

3. CHEMISTRY DEPARTMENT



Prof. Harminder Kaur

WORDS FROM HOD:

As the Head of the Department, it is my privilege to lead a dedicated team of faculty members, staff and enthusiastic students who are passionate about the fascinating world of chemistry and its profound impact on engineering disciplines. Chemistry serves as a vital bridge between the realms of pure science and applied engineering. It provides the fundamental principles and tools necessary to understand the materials, processes, and reactions that form the foundation of engineering innovations. At our department, we firmly believe in the integration of chemistry with engineering education, as it empowers our students to tackle complex challenges and drive advancements in their respective fields. At our department, we foster a stimulating learning environment that encourages curiosity, critical thinking, and hands-on experimentation. Our state-of-the-art laboratories provide students with access to modern instrumentation and equipment, facilitating practical exploration and research. Our dedicated faculty members, with their diverse expertise and passion for teaching, are committed to nurturing our student's intellectual growth and professional development. We place a strong emphasis on interdisciplinary collaboration and encourage our students to engage with other engineering departments. By forging connections across disciplines, we foster innovation and prepare our students to become well-rounded professionals who can tackle complex real-world challenges.

Whether you are an aspiring engineer seeking a strong foundation in chemistry or a researcher looking to contribute to cutting-edge advancements, we offer a supportive and inclusive environment where a student can explore the exciting opportunities and embark on the journey.

ABOUT THE DEPARTMENT

The Chemistry department offers a range of courses that cater to the diverse interests and aspirations of our students. Understanding the importance of chemistry as a fundamental science and its crucial role in various engineering disciplines, the department offers two specialized courses: Applied Chemistry-I and Applied Chemistry-II, focusing on the application of chemistry principles in solving real-world environmental challenges. The department prioritizes experiential learning and practical applications. Our state-of-the-art laboratories are equipped with modern instrumentation, enabling students to conduct cutting-edge experiments and research. In addition to the specialized courses, the department offers a wide range of elective subjects that allow students to explore their specific interests in chemistry. These electives cover areas such as organic chemistry, inorganic chemistry, physical chemistry, analytical chemistry, and biochemistry. Besides academics, the department also offers a vibrant PhD programme led by the dedicated faculty members. Interdisciplinary collaborations are strongly encouraged and the department actively engages with other engineering disciplines. 23 PhD degrees have been awarded till date and currently 12 PhD students are enrolled in the department. The department aims at meaningful

integration of chemistry into engineering education to enhance problem-solving abilities, foster innovation, and prepare students to tackle complex challenges in their future careers.

PROGRAMMES OFFERED

- **Bachelor of Technology:**

The Department offers two specialized UG courses Applied Chemistry-I (Circuitual branches) and Applied Chemistry-II (Non-circuitual branches) emphasizing the application of chemistry principles to real-world environmental and engineering challenges. These courses build a strong foundation in fundamental chemistry concepts and their practical applications. Additionally, open electives such as Green Chemical Technologies for Circular Economy, Advanced Instrumentation Methods for Analysis, and Chemistry of Materials are offered to 3rd and 4th-year B.Tech. students. Covering topics from chemical reactions and kinetics to materials science and spectroscopy, the curriculum enables students to effectively apply chemistry across engineering domains.

- **Doctor of Philosophy:**

The department offers a vibrant PhD programme led by the dedicated faculty members working in key research areas such as Organometallics, Catalysis, Nanocatalysis, Photocatalysis, Organic synthesis, Green Chemistry, Biomass conversion, Analytical chemistry, Colloidal chemistry, Environment remediation, Electrocatalysis and Energy storage. Ph.D. courses viz. Advanced organometallic chemistry, Chemistry of Macromolecules, Catalysis, Chemistry of Natural Products, Green Chemistry, Instrumental methods of analysis & Functional polymer materials are offered to the students during their Ph.D. course work.

LABORATORY FACILITIES

CHEMISTRY LAB

B.E. students perform volumetric analysis and physical chemistry experiments in the applied chemistry laboratory. Experiments are designed to analyze metal content, while volumetric analysis consists of iodometric, complexometric and precipitation titrations. Students are trained to use instruments like pH meter, conductivity meter and different spectrophotometers (UV-Vis, FTIR). This laboratory is exclusively dedicated to Ph.D. research work broadly in Organometallics, Catalysis, Sensing, Nanomaterials, Green Chemistry and Green organic synthesis. Ph.D. students design and develop novel bioactive heterocyclic scaffolds and organometallic compounds, metal oxide nanomaterials and catalysts for various organic transformations and synthesis of novel. Work in the area of Ionic Liquids as catalysts, solvent and templating agent is pursued. Besides this synthesis, characterization and application of nano metal oxide-based electrochemical sensors and photo catalysts for degradation of organic pollutants in industrial waste water are undertaken.



Equipment Added in Last Financial Year

1. FTIR (Perkin Elmer)
2. Vacuum Oven

FACULTY MEMBERS

S. No.	Name	Designation
1	Dr. Harminder Kaur	Professor & Head
2	Dr. Vasundhara Singh	Professor
3	Dr. Prem Lata	Associate Professor
4	Dr. Navneet Kaur	Assistant Professor
5	Dr. Balwinder Kaur	Assistant Professor
6	Dr. Priyanka	Assistant Professor (Temporary Faculty)
7	Dr. Manendra Singh Chauhan	Assistant Professor (Temporary Faculty)
8	Dr. Akshi Deshwal	Assistant Professor (Temporary Faculty)
9	Prof. Shashi Janeoo	Assistant Professor (Guest Faculty)

4. PHYSICS DEPARTMENT



Prof. Sanjeev Kumar **WORDS FROM HOD**

The fields of Science and Engineering are interlinked. Scientific knowledge is used to create new technologies and new technologies enable us to expand the field of Science. One of the educational objectives of our institute is to impart science-based engineering education to develop professional skills. The Physics Department has always striven to accomplish it by building a strong base of science for engineering graduates. Various courses have been designed to develop analytic abilities in students. Since the inception, the Physics Department is shaping and brightening the future of the younger generations via collective and interactive teaching- learning environments and time-honored pedagogy. Department is primarily engaged in teaching profession. We are purely engaged in creating a diverse, progressive and inclusive working environment. We believe that this endeavor is central to maximizing creativity and innovation in research and education inside the department. I strongly believe that Physics Department is one of the best nursery platforms for our great scientific minds of outskirts.

ABOUT THE DEPARTMENT

The department offers core courses in Physics. In addition to three compulsory common courses in Physics for B.Tech. 1st year students, several open electives such as Quantum Mechanics, Solid State Physics, Physics of Solar Photovoltaics and Technologies are offered to undergraduate engineering students. For undergraduate students admitted in the year 2014 onwards, minor specialization courses are being offered in the field of Physics. The department has initiated a new M.Tech. course in Quantum materials and Technology for postgraduate students. The department has well equipped laboratories to impart practical training to the students in the field of Physics. The department provides facilities for research leading to the degree of Doctor of Philosophy in the field of Ferroelectrics, Multi-ferroics, Thermoelectric Materials, Advanced Functional Materials, Nanomaterials based devices for environmental and healthcare applications.

PROGRAMMES OFFERED

- **Bachelor of Technology:** Three compulsory common courses in Physics for B.Tech. 1st year students, additionally several open electives such as Quantum Physics, Solid State Physics, Physics of Solar Photovoltaics and Technologies
- **Minor Specialization in Quantum Technologies**
- **Master of Technology:** M.Tech. course in Quantum Materials and Technology
- **Doctor of philosophy:** Doctor of Philosophy in the field of Ferroelectrics, Multi-ferroics, Thermoelectric Materials, Advanced Functional Materials, Nanomaterials based devices for environmental and healthcare applications.

LABORATORY FACILITIES



FACULTY MEMBERS

S.No.	Faculty	Designation
1.	Prof. Arun Grover	Honorary Professor
2.	Prof. Sanjeev Kumar	Professor
3.	Prof. Sandeep Kumar	Professor
4.	Prof. Shobhna Dhiman	Professor
5.	Dr. Shilpi Chaudhary	Assistant Professor
6.	Dr. Tripti Gupta	Assistant Professor (Temporary Faculty)
7.	Dr. Deepti Rana	Assistant Professor (Temporary Faculty)
8.	Dr. Navpreet Kamboj	Assistant Professor (DST Inspire Temporary Faculty)

5. CIVIL ENGINEERING DEPARTMENT



Prof. S.K. Singh

WORDS FROM HOD

Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, and buildings. Civil engineering is the oldest engineering discipline. Civil engineering takes place on all levels: in the public sector from municipal through to national governments, and in the private sector from individual homeowners through to international companies. Civil engineers typically possess an academic degree with a major in civil engineering. The length of study for such a degree is usually four years and the completed degree is usually designated as a Bachelor of Technology in Civil Engineering. Our civil engineering program has been designated to provide our students with strong fundamental skills complemented by professional skills and generic skills. Although we have miles to go, we need to celebrate each and every milestone in order to go ahead with added enthusiasm.

ABOUT THE DEPARTMENT

The department of Civil Engineering is excellently suited to meet the ever changing requirements of engineers with courses that combine the study of management, business skills and computers with engineering. The department ensures not only that the courses are updated, but also that they reflect the current needs of commerce, industry and the society as a whole. The photographs of Civil Engineering Department are as under:



PROGRAMMES OFFERED

- **Bachelor of Technology:** The undergraduate curriculum is broad based and is designed to introduce the students to a wide range of problems encountered by Civil Engineers in the field. A large number of elective subjects are offered to enable a student to study the area of his special interest in depth. Students are given practical problems of different areas as their projects. Survey camps and practical training are a part of the curriculum aimed at familiarizing the students with actual problems. The main areas of study are Structural Engineering, Transportation Engineering, Water Resources and Irrigation Engineering, Geotechnical Engg., Environmental Engineering and Construction Technology & Management.
- **Master of Technology:** Regular courses are offered in M. Tech. (Civil) in the following specializations:

1. Transportation Engineering:

This programme imparts advanced training to B. Tech. Civil Engineering Graduates in the fields of Traffic and Transportation Engineering, Pavement Materials, Design of Pavements, Soil Mechanics and Foundation Engineering.

2. Structural Engineering:

In this programme, advanced courses in the fields of Concrete, Steel, Structural Analysis, Computer Programming, Experimental Stress Analysis and Pre-Stressed Concrete etc. are offered.

3. Environmental Engineering:

In this inter-disciplinary programme, advanced courses in the fields of Air and Noise Pollution, Water and Land Pollution, Advanced Water and Waste Water Treatment, Solid Waste Management, Microbiology, Ecology and Limnology, Environmental Legislation, Environmental Impact Assessment and Rural Environmental Sanitation etc. are offered.

- **Doctor of Philosophy:** The department has experimental and computer facilities for doing research work leading to the degree of Doctor of Philosophy in the field of Structures, Transportation, Geotechnical Engineering, Project & Construction Management, Water Resources Engineering and Environmental Engineering.

LABORATORY FACILITIES

The department has excellent laboratory facilities for experimental work. The major laboratories are in the fields of Experimental Stress Analysis, Highways Materials, Photogrammetry, Traffic Engg., Structural Engineering, Hydraulics, Concrete, Structural Models, Surveying, Soil Mechanics, Environmental Engineering, Fluid Mechanics and Materials Testing, Air, Water and Noise, Quality Testing.

- Fluid Mechanics Laboratory
- Irrigation & Hydraulics Laboratory
- Material Testing Laboratory
- Soil Mechanics Laboratory
- PG Structural Engineering Laboratory
- Structural Model Laboratory
- Instrumentation Laboratory
- Survey Laboratory
- Traffic Laboratory
- Water & Waste Water Laboratory



RESEARCH AND CONSULTANCY FACILITIES

In addition to normal facilities, latest and precision equipment is available for conducting advanced research in the fields of Fiber Reinforced Concrete, Three Dimensional Photo-elasticity, Full-scale Testing, Highway Materials, Pavements, Soil Mechanics, Photogrammetry, Water Resources Engineering, Design of Regulators, River Training, and Sediment Transport etc. Facilities exist for providing consultancy in the fields of design of Multi-storeyed Buildings, Bridges, Thermal Power Plants, Building Tunnels, Dams, Controlled Concrete Mixes, Steel Structures, Transportation and Airports, Bituminous Mixes, Industrial Structures, Water Tanks, Investigation of Soil for different types of Structures, Hydraulic Testing of Pipes, Model Testing, Ground Water Testing etc.

FACULTY MEMBERS

S No	Name of the Faculty Members	Designation
1.	Dr. S.K. Singh	Professor & Head
2.	Dr. Siby John	Professor
3.	Dr. R.R. Singh	Professor(superannuated in July, 2025)
4.	Dr. Umesh Sharma	Professor

5.	Dr. Shakti Arora	Professor
6.	Dr. S. K. Verma	Professor (superannuated in August, 2025)
7.	Dr. Pardeep Gupta	Professor
8.	Dr. Sarita Singla	Professor
9.	Dr. Kamal Kumar	Professor
10.	Prof. S. K. Sharma	Associate Professor
11.	Dr. Geeta Arora	Associate Professor
12.	Prof. Sovina Sood	Assistant Professor
13.	Dr. Arshdeep Singh	Assistant Professor
14.	Dr. Mohit Kumar	Assistant Professor
15.	Dr. H.A.S Sandhu	Assistant Professor
16.	Prof. Yatindra Kumar	Assistant Professor
17.	Prof. Kuldeep Kumar	Assistant Professor
18.	Dr. Badveeti Adinarayana	Assistant Professor
19.	Dr. Deotima Mukherjee	Assistant Professor (Temporary Faculty)
20.	Dr. Parvesh Kumar	Assistant Professor (Temporary Faculty)
21.	Dr. Veena U	Assistant Professor (Temporary Faculty)
22.	Dr. Karan Moolchandani	Assistant Professor (Temporary Faculty)
23.	Dr. Manoj Kannan	Assistant Professor (Temporary Faculty)
24.	Dr. Virajan Verma	Assistant Professor (Temporary Faculty)
25.	Dr. Nirpinder Jain	Assistant Professor (Temporary Faculty)
26.	Prof. Garry Singla	Assistant Professor (DST Inspire Temporary Faculty)

6. COMPUTER SCIENCE AND ENGINEERING DEPARTMENT



Prof. Trilok Chand

WORDS FROM HOD

The department thrives to keep its student abreast with the latest state-of-art technologies by regularly updating the curriculum to make our students to make tangible contributions and be leading innovators. We try to take education beyond the four walls and thus have industrial tours the part of the curriculum which not only helps students understand the industry needs but also visualize the environment they will become part of. The department encourages research and innovative projects, which involve complex engineering concepts with focus on public health and safety, and cultural, societal, and environmental considerations. The various technical and non-technical societies of which the students encouraged to be a part of, help students explore interests and create broader perspective, build higher self-esteem and learn essential life skills. I feel proud of the alumni of the department who are currently holding influential positions in various national and multinational companies and have a positive hope that the current batch will follow the path of their seniors.

ABOUT THE DEPARTMENT

With the globalization of the Indian economy, vast opportunities have opened up for the software and hardware industry. As software continues to be one of the fastest-growing sectors, the Department of Computer Science & Engineering at PEC has been at the forefront of producing skilled software engineers with strong technical expertise. The department fosters innovation and vision through a rigorous curriculum, blending theoretical knowledge with hands-on training and industry interaction to ensure holistic student development.

Close collaboration with industry keeps the program aligned with cutting-edge technologies and enhances employability, as reflected in the rising demand for PEC graduates. Many alumni are contributing globally with leading companies like Microsoft and Seagate. The department also runs an active Institute–Industry Interface Program to strengthen student exposure to real-world challenges.

State-of-the-art facilities including Pentium-based systems, servers, multimedia kits, robotics labs, scanners, and an Indy Graphics workstation support advanced learning and research. The department firmly believes that academic excellence combined with industry partnership is the key to nurturing globally competitive professionals in computer science and engineering.

PROGRAMMES OFFERED

- **Bachelor of Technology:** Besides imparting theoretical knowledge, a lot of stress is laid on hands-on training and overall development of an individual's personality. The teaching programme has been devised keeping in view close interaction with the industry. The students of undergraduate programme are exposed to subjects related to Computer Science & Engineering. The major subjects covered in this programme include Introduction to Computing, Data Structure, Computer Network, Operating System, Software Engineering and Project Management, Artificial Expert System, Network Security, Cryptography, System

Software, Theory of Computation, etc. The competence of the department is reflected in the growing demand for its fresh graduates.

- **Master of Technology:** The Department is offering two years programme leading to the degree of Master of Technology in “Computer Science & Engineering” with 25 students from session 2010-2011. The courses offered to M.Tech students are Advanced Algorithms, Distributed Operating System, Distributed Computing and Algorithms, Blockchain Technology, Artificial Intelligence, Image Processing and Computer Vision, Object Oriented Modelling & Design, Digital System Design, Advanced Microprocessor, Network System Security, Advanced Computer Networks, Multimedia Communication System, Wireless LAN's & Mobile Computing, Cloud Computing, Advanced Mathematics (Optimization Techniques), Design of Experiment & Research Methodology, Recent Trends in Information Security (RTIT) and Soft Computing.
- **Doctor of philosophy:** Department also offers PhD programme. Research is one of the most significant activities of the department and the thrust areas include Natural Language Processing, Wireless Networking, Machine Learning, Big Data Analytics, Blockchain Technology, Parallel Computing, Network Security, Computer Vision & Image Processing, Wireless Sensor Networks, Bioinformatics, etc.

LABORATORY FACILITIES

All the Laboratories in the Department are very well equipped with all state of art facilities ranging from basic equipment to advanced specialized equipment. Laboratories in the Department include wireless network and mobile computing laboratory, embedded operating system and microprocessor laboratory, computer networks laboratory, software engineering and programming lab, multimedia and computer graphic lab, high performance computing laboratory, artificial intelligence laboratory, machine learning and database management system laboratory. Different software and hardware which have been added to the Laboratories from time to time include IBM Rational SEED RSA Programme, IBM Rational SEED RFT Programme, NET SIM Software, ANEKA Net Cloud Computing Software and High Computing facilities such as NVIDIA DGX (Personal AI Super Computer), Cuda Processor and high performance HP and Dell workstations.

- Programming Lab 301(PI- Dr. Manish Kumar)
- Programming Lab 303(PI- Dr. Rupali Verma)
- CL- 14 Lab (PI-Dr. Nitin Kumar)
- Data Science Lab



Name of Laboratory	Seating capacity	Specialized equipment Name	Specialized equipment Number	Equipment Details
Data Science Lab	120	Dell All in One (OptiPlex 7450)	39	Intel(R) Core(TM) i5-7500 CPU @3.40GHz , RAM 8 GB, HDD 1 TB, Screen 23.8"
		HP Compaq Elite 8300 Micro tower	19	Intel (R) Core i5, Ram 2GB, HDD 512 GB, Screen 20" wide LCD TFT Monitor
		HP Pro 3090 MT Desktop	25	Intel (R) Core 2 Duo ,Ram 4 GB, HDD 320 GB , Screen 20' wide LCD TFT Monitor
		Daikin Centralized AC 4 ton Each	4	4 ton Capacity
		Fire Extinguishers	3	4 kg Dry Chemical Powder
		Fire Extinguishers	3	4.5 kg Carbon Oxide Type
		Cisco Wi-Fi Access Point	4	Cisco Aironet 2800 Series

List of Faculty Members:

Sr. No.	Name of the Faculty	Designation
1	Dr. Trilok Chand	Professor & Head
2	Dr. Sanjeev Sofat	Professor
3	Dr. Shailendra Singh	Professor
4	Dr. Rajesh Bhatia	Professor
5	Dr. Padmavati	Associate Professor
6	Dr. Poonam Saini	Associate Professor
7	Dr. Nitin Kumar	Associate Professor
8	Dr. Sandeep Harit	Associate Professor
9	Dr. Alka Jindal	Assistant Professor
10	Dr. Rupali	Assistant Professor
11	Dr. Shilpa	Assistant Professor
12	Dr. Sudesh Rani	Assistant Professor
13	Prof. Mayank Gupta	Assistant Professor
14	Dr. Manish Kumar	Assistant Professor
15	Prof. Amandeep Kaur	Assistant Professor
16	Dr. Kanu Goel	Assistant Professor
17	Dr. Mamta Dabra	Assistant Professor
18	Dr. Satnam Kaur	Assistant Professor
19	Dr. Abhilasha Rangra	Assistant Professor (Temporary Faculty)
20	Dr. Ramteke Mamta	Assistant Professor (Temporary Faculty)
21	Dr. Ashpreet	Assistant Professor (Temporary Faculty)
22	Dr. Suraj Srivastava	Assistant Professor (Temporary Faculty)
23	Prof. Jasleen Kaur	Assistant Professor (Guest Faculty)
24	Prof. Armaan	Assistant Professor (Temporary Faculty)

25	Prof. Palak Goyal	Assistant Professor (Guest Faculty)
26	Prof. Atul	Assistant Professor (Temporary Faculty)
27	Dr. Renu Verma	Assistant Professor (Temporary Faculty)
28	Dr. Manpreet Singh	Assistant Professor (Temporary Faculty)
29	Dr. Sabrina	Assistant Professor (Temporary Faculty)
30	Dr. Akashdeep Kaur	Assistant Professor (Temporary Faculty)
31	Dr. Syed Tufael Nabi	Assistant Professor (Temporary Faculty)
32	Prof. Neeraj	Assistant Professor (Temporary Faculty)
33	Rupinder Kaur	Assistant Professor (Guest Faculty)
34	Divisha Garg	Assistant Professor (Guest Faculty)
35	Akshita	Assistant Professor (Guest Faculty)
36	Princepal Kaur	Assistant Professor (Guest Faculty)
37	Shilpa Sharma	Assistant Professor (Guest Faculty)
38	Kunika Rana	Assistant Professor (Guest Faculty)

7. ELECTRICAL ENGINEERING DEPARTMENT



Prof. Rintu Khanna

WORDS FROM HOD

Electrical Engineering was built on the shoulders of giants – Faraday, Tesla, Edison, Marconi, Bell to name a few – to meet the energy and telecommunication needs of humanity. Electrical Engineering is keeping the promise. This discipline is poised to continue making important contributions to key issues facing society in areas such as power and energy, bio-sciences, environmental monitoring, computing, networked communications, new innovative materials and devices that create greener, more energy-efficient solutions for our world. We, here at Punjab Engineering College's Electrical Engineering Department are continuing to push forward the frontiers of what can be done with devices, circuits, systems, signals and information. Our department combines research with a rigorous and vibrant learning environment for all our students, and we are proud of the balance we provide between the many aspects of EE – both theoretical and practical, and between traditional and emerging fields. We aim to produce graduates who are excellently prepared for careers within and beyond EE. We offer degrees at B. Tech, M.Tech, and Ph.D level. In all areas, the theoretical material is strongly motivated by practical experience. Our undergraduate program is thriving as we implement an updated curriculum to prepare our undergraduates for the workforce and graduate studies. Our M.Tech program is highly flexible offering the chance to study the newest and most important EE topics in depth. Ph.D student enrolment is booming (with increased selectivity). Efforts are

made to promote research collaborations. Please feel welcome to explore this website for a glimpse of our research, competitive academic programs, supportive learning environment, teaching activities and modern facilities.



History of the Department:

Milestone	Year
Established	1921: Establishment of the department at Lahore (Pakistan) 1947-1953: At Roorkee University. - Since 1953: At Chandigarh Campus.
Courses offered initially	UG
Started M.Tech in Electrical Engineering	1962
Started M.Tech in Electrical Energy System	2022
Ph.D Program in EE	2006

Vision of the Department:

To be a nodal agency for advancement of Electrical Engineering academics, research & development within and in close collaboration with industry, society, leading institutions. To develop responsible professionals and citizens through awareness and by acceptance of ethical values.

Mission:

The mission of the electrical engineering department is:

- To impart fundamentals of electrical engineering for solving real life problems by creating novel products and solutions.
- To strive for excellence in academics and research works to contribute in the development of the region and nation, and develop a rich electrical engineering based research center for industrial growth of the nation through continuous upgradation of faculty and lab facilities.
- To enable students to pursue successful careers in the electrical engineering and cognitive professions and become responsible technologists by inculcating ethical values.

PROGRAMMES OFFERED:

● **Bachelor of Technology:** The undergraduate program provides a strong foundation in Electrical Engineering, covering a wide range of subjects with depth in core areas such as Electrical Circuits, Measurement, Power Generation, Transmission & Distribution, Electrical Machines, Power Electronics, Electric Drives, Control Engineering, Mechatronics, Digital Systems, Microprocessors, Electromagnetic Field Theory, High Voltage Engineering, Instrumentation, Communications, and more.

To strengthen practical exposure, students undergo internships in their 6th semester at reputed industries, academic institutions, and research organizations worldwide. In the final year, they work on industry-oriented projects in domains like Power Systems, Electrical Machines, Power Electronics, Control Systems, and Drives, integrating hardware and software to design, develop, and control innovative solutions.

● **Master of Technology:** Department offers two 2-year Master of Technology programme in Electrical Engineering and Electrical Energy System with electives in the areas of Electrical Power Systems, Power Electronics & Electric Drives and Control Systems. Theoretical courses are normally covered in one year, and the 2nd year is devoted fully for thesis work mostly industry based project.

● **Doctor of Philosophy:** Department also offers Ph.D. programme facilitating students to carry out research in different areas of Electrical Engineering such as Power System, Power Electronics, Control Engineering, Instrumentation and Renewable Energy and Hybrid System. Interdisciplinary researches are also encouraged through interface of other departments.

LABORATORY FACILITIES: We are having well equipped and modern laboratories in the department with latest required apparatus and software's. List of different labs are mentioned below.

- Measurement Lab
- Advanced Lab
- Energy Audit Lab
- Circuit Lab
- Control Lab
- Electrical Machine Lab
- Mechatronics Lab
- Microprocessor Lab
- Power Electronics Lab
- Generation, Transmission and Distribution Lab
- Bio Medical Lab



Research and Consultancy Facilities: - The department provides research in the following areas of Electrical Engineering: Power System Stability, Power Flow Studies, Grounding, Finite Element Analysis, Illumination, Energy Auditing, Power Electronics & Drives, Hybrid Systems, and Mechatronics etc.

The Departmental laboratories have facilities for providing consultancy in the fields of design of Electrical Transmission and Distribution System, Power Flow Studies, Computation of Short Circuit Currents, Steady State and Transient Stability Studies of Power Systems and Computation of Dynamic Over Voltage in Power System, Design of Industrial Power Systems, Grounding, Design and Testing of Illumination, High Voltage Testing of Power Apparatus, Finite Element Analysis of Field Problems and Systems Optimization, Energy saving Auditing, Power Electronics and Drives, Control Systems, Third Party Quality Assurance (TPQA) etc.

FACULTY MEMBERS

Sr. No.	Name of the Faculty Members	Designation
1	Dr. Rintu Khanna	Professor & Head
2	Dr. Tilak Thakur	Professor
3	Dr. Balwinder Singh	Professor
4	Dr. Jagdish Kumar	Professor (On Deputation)
5	Ms. Sulata Bhandari	Professor
6	Dr. Puneet Arora	Professor

7	Dr. Sandeep Kaur	Professor
8	Dr. Loveleen Kaur	Associate Professor
9	Dr. Tejinder Singh Saggu	Associate Professor
10	Dr. Manohar Singh	Associate Professor
11	Dr. Jaimala Gambhir	Associate Professor
12	Sh. Dhiraj Bharat	Assistant Professor
13	Prof.Amita Kumari	Assistant Professor
14	Dr. Ajay Kumar	Assistant Professor
15	Dr. Hanuman Prasad	Assistant Professor (Temporary Faculty)
16	Dr. Anu Singla	Assistant Professor (Temporary Faculty)
17	Dr. Avinash Maurya	Assistant Professor (Temporary Faculty)
18	Dr. Rohit Kumar	Assistant Professor (Temporary Faculty)
19	Dr. Hemant Kumar	Assistant Professor (Temporary Faculty)
20	Dr. Vivek Kumar	Assistant Professor (Temporary Faculty)

8. ELECTRONICS AND COMMUNICATION ENGINEERING



Prof. Arun Kumar Singh

WORDS FROM HOD

The Department of Electronics and Communication Engineering (ECE) has been a cornerstone of excellence, shaping world-class technologists since its inception in 1963. Our department goes beyond the standard engineering curriculum by equipping students with the skills, knowledge, and professional attitude required to meet the aspirations of today's dynamic corporate world. With excellent infrastructure, state-of-the-art research facilities, and comprehensive study resources, our department stands apart as a hub of innovation and learning. Our highly experienced faculty, with diverse expertise and an unwavering commitment to academic excellence, creates an environment where students are prepared to thrive in a global, multicultural landscape. Our faculty actively engages in research and consultancy projects funded by government and private organizations, including DST, DRDO, MeitY, DoT etc. Additionally, we have established collaborations with renowned industries such as Cadence, SCL Mohali, and Micron Semiconductor Technologies, offering our students valuable exposure and

practical knowledge in emerging fields. We take great pride in the outstanding academic record consistently maintained by our students, which is a testament to their hard work and the supportive ecosystem of our department. We are confident that they will continue to demonstrate exceptional competence and professionalism, carrying forward the legacy of excellence they have cultivated during their time here. We remain committed to nurturing talent, advancing research, and contributing meaningfully to the ever-evolving field of Electronics and Communication Engineering.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE), established in 1963, has grown from an initial intake of 30 students to offering two undergraduate programs B.Tech. in ECE (120 intake) and B.Tech. in Electronics Engineering (VLSI Design & Technology) (30 intake). It also offers an M.Tech. in VLSI Design (20 intake) and supports extensive research through full-time and part-time Ph.D. programs.

Research in the department spans VLSI Design, Photonics, Optical & Wireless Communication, Medical Imaging, Microwave Engineering, Antenna Design, Semiconductor Technology, and 5G Technology. Equipped with state-of-the-art labs in Basic Electronics, Embedded Systems, Microprocessors, and DSP, the department also houses advanced research facilities for Semiconductors and 5G. Faculty-led projects have attracted over ₹10 crore in funding from premier agencies such as DST, DRDO, MeitY, and DoT.

A unique 6-month internship program, strong industry-academia collaborations, and a legacy of distinguished alumni ensure students are well-prepared for careers in academia, industry, and government. With highly qualified faculty, cutting-edge infrastructure, and impactful research, the ECE Department continues to drive innovation and excellence while addressing societal needs through technology.



PROGRAMMES OFFERED

The Department of Electronics and Communication Engineering offers two undergraduate programs: B.Tech. in Electronics and Communication Engineering with an intake of 120 students and B.Tech. in Electronics Engineering (VLSI Design and Technology) with an intake of 30 students. Department also offers a full-time M.Tech. program in VLSI Design with an intake of 20 students and supports extensive research through full-time and part-time Ph.D. programs.

- **B.Tech. programme in Electronics & Communication Engineering (ECE):** The subjects covered in the Curriculum are broadly in the areas of Electronic Devices and Circuits, Microwave Engineering, Communication Engineering, Satellite Communication and Information Theory, Microprocessor, Audio Visual System, VLSI, Microcontroller, Digital Signal Processing, Computer Architecture, Data Communication, Wireless Communication, Optical Communication and Nanotechnology.
- **B.Tech program in Electronics Engineering with specialisation in VLSI design and Technology:** This program is focused to create a talent pool in VLSI design that will serve the upcoming huge demand for successful implementation of semiconductor mission of India. The students will be taught courses in semiconductor materials, devices, embedded systems, Computer Architecture, System-on-chip etc.
- **Master of Technology with specialisation in VLSI design:** The **M.Tech. in VLSI Design** program is designed to provide students with an in-depth understanding of circuit design, device design, materials, and embedded systems. It combines a strong foundation in VLSI principles with hands-on experience in designing and implementing advanced solutions. Students actively participate in research projects addressing real-world challenges and undertake thesis work in specialized areas, fostering innovation and domain expertise by equipping students with both technical knowledge and practical skills, the program prepares them to contribute meaningfully to technological advancements and positions them at the forefront of the rapidly evolving VLSI industry.
- **Doctor of Philosophy:** Entering the next millennium of Science and Technology, a pressing challenge emerges due to the immense demand for high-speed, dependable, and cost-effective technology. Additionally, the technologies that will shape the future encompass a wide range of applications, including IoT, Embedded Systems, and Nano-Microelectronic system design. Research facilities supporting the pursuit of Ph.D. degrees are available within the department. The department's research expertise spans from VLSI to Photonics to Nanoelectronics to Embedded systems. Over the last few years, more than 10 Ph.D. degrees have been granted, highlighting the significant contributions to research and academia.

LABORATORY FACILITIES

The Department is equipped with laboratories in the domains of Basic Electronics, Embedded Systems, VLSI Design, Optical Communication, Microwave Communication, Virtual Instrumentation & Digital Signal Processing (DSP), PCB Prototyping, 5G Technology, and Semiconductor Research.

The **Optical Communication Laboratory** trains students in photonics and next-generation networks with industry-standard software (OptiSim, VPI Photonics, BeamPROP, MATLAB modules) and advanced setups (DWDM/WDM modules, EDFAs, FBG characterization tools, OTDR. systems). The **VI/DSP Lab** integrates NI ELVIS kits, LabVIEW, smart cameras, DAQ systems, and sensors to provide hands-on experience in digital signal analysis, instrumentation, and smart sensing. a comprehensive platform for UG/PG projects, doctoral research and high-speed networking technologies

The **Virtual Instrumentation & Digital Signal Processing (VI/DSP)** provides students with hands-on experience in digital signal analysis, algorithm implementation, and instrumentation system design. The lab is aimed at enabling students to model, simulate, and test electronics and instrumentation-based designs, while also offering flexibility through graphical programming platforms.

It is equipped with modern hardware and software tools including NI ELVIS kits, LabVIEW 2011, NI Dr. DAQ cards, NI 1764 Smart Camera, NI Simulator, BNC-2120 connector blocks, DAQ cards, sensors (humidity,

temperature, pH, magnetic field, etc.), data logger cards, and desktop computing systems. These facilities allow experimentation in signal acquisition, real-time processing, instrumentation, and smart sensing applications.

By integrating DSP algorithms, instrumentation hardware, and virtual simulation tools, the laboratory provides a robust platform for both academic learning and applied research, preparing students for advanced work in signal processing, automation, and intelligent system design.

The **Basic Electronics Laboratory** is designed to familiarize students with fundamental electronic components, measuring instruments, and basic circuit experiments. The lab enables hands-on learning through experiments on frequency response of amplifiers, rectifiers, and operational amplifier-based circuits.

It is equipped with essential instruments such as mA and μ A meters, regulated dual DC power supplies, experimental kits for rectifier and op-amp applications, digital storage oscilloscopes (200 MHz, dual/4-channel), handheld multimeters, programmable function generators, and OrCAD PSpice simulation software (10 users). These resources allow students to analyze, simulate, and validate electronic circuits both experimentally and virtually.

By combining practical experimentation with circuit simulation tools, the laboratory provides a strong foundation in electronics, preparing students for advanced courses, research, and applications in electrical and electronic engineering.

The **VLSI Laboratory** is designed to provide students with comprehensive training in both digital and analog VLSI design. The lab familiarizes students with industry-standard EDA tools such as Cadence Design Suite, Symica Custom IC Design Toolkit, and Visual TCAD, enabling them to perform circuit design, simulation, layout, and device modeling. These tools support activities ranging from schematic-driven circuit design and hierarchical layout to mixed-signal and SPICE-based simulations, as well as 2D/3D device simulations and behavioral modeling.

Equipped with advanced computing systems and supporting instruments like a 34-channel Logic Analyzer, the lab offers hands-on experience with professional design platforms and fosters active participation in research and innovation. By integrating circuit-level design and device-level simulation, this laboratory provides a holistic learning environment for students to gain practical exposure to the workflows used in modern chip design and semiconductor device research.

The **Embedded Systems Laboratory** is designed to provide students with practical knowledge of microprocessors, microcontrollers, and embedded system design. The lab enables programming, simulation, and testing of 8085, 8051, PIC18, and ARM-based circuits, along with interfacing of peripheral devices. It also serves as a platform for multidisciplinary projects. The laboratory is equipped with a wide range of hardware and software including Microprocessor and Microcontroller Trainer Kits (8085, 8051, PIC, ARM9, ARM11), PIC-based sensors, interface cards for embedded devices, Proteus Design Suite (Ver. 8.4), Flowcode 6 with C compiler, and Intel-based desktop systems. These facilities enable students to work with modern embedded platforms, covering applications from basic programming to IoT, GSM, GPS, Bluetooth, and Zigbee-based systems.

The **Microwave Laboratory** provides in-depth practical exposure to the fundamental and advanced concepts of microwave engineering. The laboratory is equipped with S-band and X-band microwave benches, slotted line sections, attenuators, matched terminations, VSWR meters, tunable probes, circulators, directional couplers, phase shifters, frequency meters, Gunn oscillators, klystrons with mounts, signal sources, and advanced measuring instruments such as CROs and DSOs. Antenna-related facilities include horn antennas, dish antennas, and dielectric measurement setups, which allow detailed characterization of radiating structures and material properties. In

addition, the lab houses PCB design and fabrication machines for prototyping RF and microwave circuits, supporting the transition from theoretical design to practical realization.

The **Project Laboratory** is designed to strengthen the foundation of students in both digital and analog circuit design, while fostering innovation through hands-on exposure to industry-standard tools and platforms. The laboratory is equipped with advanced software such as Vivado for FPGA and SoC design, Microwind for CMOS circuit layout and simulation, and hardware platforms including Xilinx PYNQ boards that integrate ARM processors with FPGA fabric for real-time prototyping. In addition, high-performance computer systems are available to run these EDA tools efficiently, enabling smooth design, simulation, and analysis workflows. The lab provides an integrated environment where students learn circuit design, device modeling, system-level implementation, and verification through practical assignments and research-driven projects. With this setup, Project Lab not only enhances technical proficiency but also bridges the gap between theoretical concepts and real-world applications, preparing students for advanced roles in VLSI design, embedded systems, and next-generation electronic product development.

The **PCB Prototype Laboratory** is established with the objective of providing students and researchers practical exposure to the design and fabrication of printed circuit boards (PCBs). The lab focuses on enabling the design of single- and double-sided PCBs, as well as high-power, RF, and microwave circuit boards. It is equipped with LPKF Board Routers and PCB Design Machines, which support the production of multilayer, rigid, and flexible PCBs with high precision. These systems allow the complete workflow from circuit design to physical realization, giving learners hands-on experience in modern PCB prototyping techniques. With this facility, the PCB Lab serves as a vital platform for bridging the gap between circuit simulation and hardware implementation, thereby enhancing skills in electronics product development and applied research.

Lab Equipments Added in Last Financial Year:

A. Software

➤ COMSOL Multiphysics

- Finite-element modeling environment for coupled physics simulations (structural, thermal, electrical, chemical).
- Includes GUI + APIs (MATLAB/Java).
- Offers customizable physics, meshing controls, parameter sweeps, and optimization modules.

B. Hardware

➤ Vacuum Chamber

- Stainless steel assembly.
- Maximum vacuum: 10^{-7} mbar.
- Operating voltage: 230 V, 50 Hz.
- Equipped with LCD display and single-switch operation.

C. Software (under C2S Project)

➤ Synopsys Sentaurus

- Device- and process-level TCAD simulation suite (2D/3D).
- Supports drift-diffusion, hydrodynamic, and quantum models.
- Enables process/device co-simulation, mesh control, and compact model extraction.

➤ **Cadence EDA Platform**

- Complete IC/PCB design environment.
- Includes schematic capture, simulation (Spectre), layout (Virtuoso), and sign-off flows.
- Supports RTL→GDSII flow, mixed-signal verification, PDKs, timing analysis, and parasitic extraction.

➤ **ANSYS Multiphysics**

- Comprehensive engineering analysis suite with FEA, CFD, and electromagnetics.
- Solvers include structural, thermal, fluid, and HFSS for EM simulation.
- Supports multiphysics coupling and CAD integration.

➤ **Tanner EDA**

- Lightweight suite for analog/mixed-signal and MEMS IC design.
- Tools: L-Edit, S-Edit, T-Spice.
- Provides quick layout, circuit simulation, and foundry support—ideal for academic and small-scale IC projects.

➤ **Xilinx/AMD Vivado**

- FPGA design suite for RTL synthesis, implementation, timing closure, and bitstream generation.
- Features IP Integrator, simulation support, hardware debugging (ILA), and FPGA toolchains.

D. Hardware (under C2S Project)

➤ **FPGA Boards**

- Reconfigurable prototyping platforms (Xilinx/Intel/others).
- Features: onboard DDR/Flash memory, JTAG, high-speed transceivers, I/O headers (FMC/PMOD), power rails, and debug connectors.
- Enables firmware, SoC, and accelerator development.

RESEARCH AND CONSULTANCY FACILITIES

Research and Consultancy Facilities and expertise exist in the areas of Nano Electronics, Telecommunications, Digital Design, Optical Communication, Microprocessor applications, Microwave communication, VLSI and Digital Signal Processing.

Semiconductor Research Centre (SRC):-

SRC is a state-of-the-art facility for the semiconducting material growth, micro-/nano-electronic device design, fabrication and their electrical (DC and RF) characterization. It comprises of 04 clean room laboratories with an area of 1300 sq. feet, of Class 1000 and 10000, dedicated for the chemical processing of semiconductors, material growth/deposition, lithography with a feature size of 1 μm and electrical testing up to 20 GHz.

The President of India, Shri Ram Nath Kovind inaugurated the Semiconductor Research Centre (SRC) under the Department of Electronics and Communication Engineering on 16th November 2021 in the presence of The Governor of Punjab, the Governor of Haryana and Adviser to the UT Administrator.

The cleanroom facilities are supported by the Nanoelectronics Research Lab (NRL) at ECE department of PEC, Chandigarh for the modelling of the electronic devices.

SRC has been established with the generous funding of about Rs. 5.00 Cr from the Department of Science and Technology Government of India under Fund for Improvement of S&T Infrastructure (FIST) scheme, Punjab Engineering College (PEC) Chandigarh, Science and Engineering Research Board (SERB), DST and Defense Research and Development Organization (DRDO).

The SRC facilities are accessible to various researchers of PEC Chandigarh as well as researchers from other institutions including CRIKC institutions.



5G Use-Case Laboratory:

The 5G Use-Case Laboratory, sponsored by the Department of Telecommunications, aims to build competencies and engagement in 5G technologies among students, academia, startups, and MSMEs by enabling hands-on development of 5G use cases across sectors such as healthcare, agriculture, smart cities, logistics, governance, and more

This lab is equipped with 5G Standalone infrastructure, 5G SIMs, firewalls, IoT gateway, radio unit, application server, evaluation board, 5G AI cameras, indoor CPE, XR/AR/VR headsets, 5G drone, and standard networking hardware. The lab facilitates real-world experimentation—from prototype development at the UG/PG level and IoT or AI-powered smart systems to immersive XR applications and drone-based innovations—while also supporting academia–industry collaboration and fostering readiness for future technologies like 6G.

FACULTY MEMBERS

Sr. No.	Name	Designation
1	Arun Kumar Singh	Professor & Head
2	Deepak Bagai	Professor
3	Neelam Rup Prakash	Professor
4	Neena Gupta	Professor
5	Jyoti Kedia	Associate Professor
6	Rita Mahajan	Associate Professor
7	Simranjit Singh	Associate Professor
8	Sukhwinder Singh	Associate Professor
9	Divya Dhawan	Associate Professor
10	Bipan Kaushal	Assistant Professor
11	Deepak Kumar Sharma	Assistant Professor
12	Gourab Das	Assistant Professor
13	Jasbir Kaur	Assistant Professor
14	Jaskirat Kaur	Assistant Professor
15	Ashish Singh	Assistant Professor (Temporary Faculty)
16	Madhu Kushwaha	Assistant Professor (Temporary Faculty)
17	Mandeep Singh	Assistant Professor (Temporary Faculty)
18	Radhika Malhotra	Assistant Professor (Temporary Faculty)
19	Satinder Singh Mohar	Assistant Professor (Temporary Faculty)
20	Akanksha Jaiswal	Assistant Professor (Temporary Faculty)
21	Yashasvi Chauhan	Assistant Professor (Guest Faculty)
22	Bhanu Devi	Assistant Professor (Guest Faculty)
23	Satwinder Kaur	Assistant Professor (Guest Faculty)

9. MECHANICAL ENGINEERING



Prof. Sanjeev Kumar

WORDS FROM HOD

Mechanical Engineering is a diverse subject that involves use of fundamental principles of science and mathematics for the design, development and manufacturing of physical systems. Our department offers four years B.Tech. degree and two years M.Tech. degree courses in Mechanical Engineering and strive to provide the students a high-quality engineering education through well-planned coursework and cutting-edge research activities. The academic curriculum has been designed to emphasize the mathematical, scientific approach, Industrial training and projects, to endow its graduates to become intellectual leaders in industry, government, and academia. In our department, Ph.D. students are working in different research domains including advanced/ non-traditional machining processes,

micro-manufacturing, composites and bio-materials, computation modelling in heat transfer, CFD, phase change materials, nanofluids, mechanical vibration and so on. Students under the M.Tech. and Ph.D. programmes are financially supported under various scholarship schemes of MHRD/AICTE and TEQIP.

Our department comprises of all necessary laboratories equipped with sophisticated instruments and our focus is on developing the state-of-art computational and experimental facilities for teaching and research. In addition to teaching and academic advising, our faculty are actively involved in scholarly research and publications. Department is committed to provide an unbiased and equal opportunities for education and conducive environment for all members for the achievement of their full intellectual and professional potential.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at PEC (Deemed to be university), Chandigarh is as old as the Institute itself. The Department is continuously striving to achieve excellence in education, academic and industry-oriented research to prepare the manpower that are globally competitive and capable of leading in industry, academia and government organizations in both India and abroad. Besides the Bachelor degree, Department offer Master and Ph.D. programme also. From session 2016-17 onward, the Department has an intake of 120 students at B. Tech. level. Under Ph.D. programme at the Department, the major research areas include Advanced /non-traditional machining processes, Micro-manufacturing, CAD/CAM, Soft computing in Design and Manufacturing, Composites, Biomaterials, Modelling and Computation in heat transfer, Nanofluids, Mechanical Vibration and so on.

The track record of the department, judged by the employment potential of our students and noteworthy achievements of illustrious alumni, is excellent. The major strength of the department is its experienced and enthusiastic teaching faculty with a well versed teaching and industrial exposure along with well supportive technical staff for laboratories. The department can boast to have very well-equipped laboratories, centralized workshop and Centre of Excellence supported by M/s Siemens that caters to the need of the entire Institute, nearby industry and society at large. The department is also well equipped with computational facilities and resources both in terms of hardware and software.

PROGRAMMES OFFERED

- **Bachelor of Technology:**

The course aims at providing basic knowledge in Mechanical Engineering in areas like Manufacturing Processes, Fluid Mechanics, Strength of Materials, Dynamics of Machinery, Thermodynamics and Engineering & Machine Drawing etc. It further acquaints the students with various types of Machines, Automotive Systems, Refrigeration & Air Conditioning, Non-Conventional & Renewable Energy, Robotics. The programme also includes advanced subjects in areas of Design Engineering, Production Engineering, Techniques of Management, Computer Programming and Numerical Analysis and CAD/CAM, Optimization, Maintenance Engineering, Reliability of Systems etc.

- **Master of Technology:**

The course work provides advanced knowledge of Mathematical Modeling and Simulation, Advanced Manufacturing Processes, Design of Experiment and Research Methodology, Finite Element Methods etc. Different allied courses like Mechanical Behavior of Materials, Advanced Vibration Engineering, Advanced Heat and Mass Transfer, Computational Fluid Dynamics, Power Plant Engineering etc. are also offered. Course also attempts to improve Technical Communications for report writing and presentation.

- **Doctor of Philosophy:**

The department has facilities for research leading to Ph.D. degrees in various disciplines of Mechanical Engineering *i.e.* Thermal Engineering, Machine Design, Advance and Micro Manufacturing, Production and Industrial Engineering, Vibration Control etc.

LABORATORY FACILITIES

The department has excellent facilities for practical and research work in the laboratories of Advanced Manufacturing, Strength of Materials, Thermal Engineering & Heat Transfer, Refrigeration & Air Conditioning, Computer-Aided Design, Hydraulic Machines etc. All the Laboratories in the Department are very well equipped with facilities ranging from basic equipment to advanced specialized equipment and the new equipments are added to the laboratories time to time.

- Advanced Manufacturing Lab
- Heat Transfer Lab
- Strength of Materials Lab
- Refrigeration and Air Conditioning Lab
- Heat Engine Lab
- Computer Aided Design & Advanced Computation Lab
- Advanced Vibration Lab
- Fluid Machinery Lab



Research and Consultancy Facilities:

The Department of Mechanical Engineering provides ample laboratory facilities for experiments and hands on training to the students both in the academic subjects as well as emerging fields of specialization. The broad areas of research include: Advanced manufacturing processes, Modelling and Computation of Heat Transfer, Internal Combustion Engines, Nanofluids, Micro-manufacturing, soft computing in Design & Manufacturing, Mechanical Vibration & control, Automation & Robotics, Composite materials, Finite Element Analysis and Neuro Ergonomics.

List of Faculty Members:

Sr. No.	Name of Faculty	Highest Qualification	Designation
1.	Prof. Sanjeev Kumar	Ph.D.	Professor & Head
2.	Prof. A. Manna,	Ph.D.	Professor
3.	Prof. S. K. Mangal	Ph.D.	Professor
4.	Prof. Perminderjit Singh	Ph.D.	Professor
5.	Prof. D. R. Prajapati	Ph.D.	Professor
6.	Prof. Sushant Samir	Ph.D.	Professor
7.	Prof. Sarbjit Singh	Ph.D.	Professor
8.	Prof. S. K. Soni	Ph.D.	Associate Professor
9.	Prof. Rakesh Dang	Ph.D.	Associate Professor
10.	Prof. Rajesh Kumar Kanda	Ph.D.	Associate Professor
11.	Prof. Kamal Kumar	Ph.D.	Associate Professor
12.	Prof. M.P. Garg	Ph.D.	Associate Professor
13.	Prof. Sandeep Salodkar	Ph.D.	Associate Professor
14.	Prof. Gurjeet Singh	Ph.D.	Assistant Professor
15.	Prof. Tejbir Kaur	Ph.D.	Assistant Professor
16.	Prof. Ankit Yadav	Ph.D.	Assistant Professor
17.	Prof. A.N. Dubey	M.Tech.	Assistant Professor
18.	Prof. Chander Kant Susheel	Ph.D.	Assistant Professor
19.	Prof. Harshit Khandelwal	Ph.D.	Assistant Professor
20.	Prof. Lokesh Rohilla	Ph.D.	Assistant Professor
21.	Prof. Mahesh Kumar Yadav	Ph.D.	Assistant Professor
22.	Prof. Nitin Dixit	Ph.D.	Assistant Professor (Temporary Faculty)
23.	Prof. Viveksheel	Ph.D.	Assistant Professor (Temporary Faculty)
24.	Prof. Abhishek Kansal	Ph.D.	Assistant Professor (Temporary Faculty)

10. MATERIALS AND METALLURGICAL ENGINEERING



Prof. J.D. Sharma

WORDS FROM HOD

Materials are the backbone of our civilization, and strengthening the backbone is an ardent duty of every engineer. Metallurgical and Materials engineers, however, support the most promising role in this business process. The functions of a Metallurgical and Materials Engineering professional are to make primary metal/materials, shape them into desired form and features, and treat them to assure superlative performance. Better functions are always achieved at the stance of better designs, and material design is a competency that we at the Department of Metallurgical and Materials Engineering aspire to render to our students. The product of our department has done well towards placing the material industry in higher echelons of the global world is the proverbial proof of the good pudding our students create in the pie they develop as an aspect of our training. The synergy of our Metallurgical Engineering education goes well with the competencies in consulting, and the industrial liaison faculty of this department maintains with the industry. Last but not least, the size is no indication of the role the Metallurgical and Materials Engineering professionals demonstrate. Given the latter, there is a big responsibility, and the journey ahead.

ABOUT THE DEPARTMENT

The Department of Metallurgical and Materials Engineering started in 1963. The department has completed many research projects funded by Govt. Sponsoring Agencies with an outlay of 7.4 Crores, some of these to mention are- INR 1.25 Crore, A Spoke of Design Innovation Center with focus on Transparent Ceramics, (MHRD); INR 77.39 Lakhs, Design and Development of Mg Alloy for Bone plate applications (DST); INR 41 Lakhs, Aluminium Composites for Ballistic Applications, (DRDO). A PG Lab in Industrial Materials and Metallurgy was established from the TEQIP-II. Our department has significantly benefited by the TEQIP project by training of human resources. In addition, the Department has given consultancy to the Industry on their problems, of value worth 40 Lakhs in the last few years. The department has created a good infrastructure consisting of 5 UG labs, 2 PG Labs and 2 Research labs. The department has close collaboration with Vardhman Special Steels Ltd. Ludhiana, Shakunt Enterprises (P) Ltd, Ludhiana, P A PINIONS Himachal Pradesh, IMR India (P) Ltd. Gurgaon, NNE Ludhiana, AGRI- King Baddi, JMP Jalandhar, etc.



PROGRAMMES OFFERED

- Bachelor of Technology:** The department offers a B.Tech in Metallurgical and Materials Engineering. The program has a comprehensive curriculum covering various engineering materials like metals and alloys, ceramics etc. Apart from core and department elective courses students learn courses pertaining to basic sciences, open electives from other departments and humanities courses so that they are future-ready as Engineers. The department has initiated a unified approach to teaching and industry interaction, through semester-long industry internship, and industry-institute interaction week in each semester. In addition, guest faculties are invited from other institutions and industries to share their experiences and teach specialized topics in different subjects. The curriculum is constantly upgraded to suit the continuously evolving needs of the industry.
- Master of Technology:** The department offers an M.Tech in Materials Science and Engineering. The program starts with bridge courses and soft computing and soft management courses which have become a need of the hour. Students undergo core courses such as Physical Metallurgy, Steel Making Technology, Characterization of Materials, Failure Analysis etc. At the same time students can opt for electives such as casting technology, materials joining, Metal Forming and Heat Treatment, Powder Metallurgy Technology, Functional Materials, Biomaterials, Nanomaterials, Surface Engineering etc. The program has a good mix of traditional metallurgical and modern materials related courses. Students spend a complete year in their second year of the program in doing project on industrially and futuristically relevant field which prepares them for joining industries in various roles and pursuing their doctoral research.
- Doctor of Philosophy:** The department is one of the recognized research centres at PEC for pursuing doctoral research. Students with an interest in carrying out interdisciplinary research join the program after B. Tech and/or M. Tech subject to requirements of the program. Research scholars of the department carry out research in areas like the development of new materials, establishment of structure-property correlations, nanomaterials synthesis, corrosion studies and tribological studies etc. under the guidance of their Ph.D. supervisors. During their Ph.D. tenure students gets hands-on experience on some unique facilities of the department like alloy melting and casting, vacuum sintering, thermal analysis, scanning electron microscopy etc. The extensive work carried out by research scholars has resulted in publications in top-tier peer-reviewed journals and conference proceedings of international repute. The laboratories are being constantly upgraded to enhance the quality of research at the department.

LABORATORY FACILITIES

Laboratory facilities exist in the department in the areas of the following categories:

UG Labs:

- (1) Physical Metallurgy Laboratory,
- (2) Extractive Metallurgy Laboratory,
- (3) Mineral Engineering Laboratory,
- (4) Particulate Metallurgy Laboratory,
- (5) Computer Simulation Laboratory.

PG Labs:

- (1) Industrial Materials and Metallurgy Laboratory
- (2) Materials Characterization Laboratory

Research Labs:

- (1) Biomaterials Laboratory
- (2) Transparent Ceramics Laboratory

The Biomaterials laboratory is equipped with programmable furnace, Dip and spin coating units, ultrasonic cleaning apparatus, bacteriological incubator, viscosity meter, mechanical stirrer, electrochemical work station, hydraulic press. The physical metallurgy laboratory is equipped with dry/wet polishing machine, muffle furnaces, Metallurgical microscopes, inverted microscope, image analyser, Jominey end quench test equipment, and an abrasive cutter. The industrial metallurgy laboratory is equipped with melting furnace, programmable muffle furnaces, vacuum sintering furnace and rolling mill. Transaprent Ceramics laboratory has bomb calorimeter, programmable muffle furnace, surface roughness tester, conductivity meter, LCR meter. The materials characterization laboratory consists of JEOL SEM, Digital Rockwell Hardness Tester, Vicker's Hardness Tester, Wear & Friction Monitor, and Ultrasonic flaw detector. The mineral engineering laboratory is equipped with crusher, ball mill, floatation cell, magnetic separator, cone classifier, pot mill sieve shaker etc. Computer simulation lab is equipped with MATLAB, Auto CAD, J-Mat pro, ANSYS software.

Equipment added in the last financial year:

1. pH meter (Helix)
2. Ultrasonic cleaner (Labwan)
3. Magnetic Stirrer (Borosil, Dan Logitech)
4. Autoclaves
5. Centrifuge (Remi R8C)



High Temperature Nabertherm Vacuum Furnace



Scanning electrochemical microscope (JEOL)



Sciencetech Compact Solar Simulator



LCR Meter- High Temperature Set-up



Fatigue Testing-250 kN, 50 Hz



ADI Pilot Plant -200Kg



Cary 5000 UV-Vis-NIR Spectrophotometer, Agilent Technologies



Core Gas Determinator

Lab Facilities at MMED

RESEARCH AND CONSULTANCY FACILITIES

The department has the competency to carry out research and consultancy work in the area of development of Austempered Ductile Iron for engineering applications, coating, 3rd generation solar cells, metallurgical waste management, transparent ceramics: synthesis and characterization, heat treatment cycle optimization using JMatPro software, failure analysis, microstructures evaluation non-destructive testing, die penetrant test, ultrasonic flaw detection, macro examination of steels to determine Sulfur, Phosphorous Chemical Analysis of elements in Steels, Casts Iron, Aluminium, Copper and other alloys, Thin film coating for wear and corrosion resistant applications, welding fluxes improvement or development, lead-free solder-development, materials selection ferrous (Steels and cast Iron), Non-Ferrous (Aluminium, Copper etc. alloys) Casting design & defect analysis, Hardness testing. In the recent past, we have successfully completed research & consultancy projects of Mahindra and Mahindra Ltd, Industrial Organic limited, Mahle Engine Components Ltd, Modern steels Ltd etc. Navyug Namdhari Eco Drive Pvt. Ltd., Ludhiana has sponsored INR 25 lakh project for research and technical activities in the Metallurgical and Materials Engineering Department.

FACULTY MEMBERS

S. no.	Name	Designation
1	Prof. Uma Batra	Professor
2	Dr. J.D. Sharma	Associate Professor & Head
3	Prof. Suresh Chand	Assistant Professor
4	Dr. Vibhor Chaswal	Assistant Professor
5	Dr. Kiran Lata Bhaskar	Assistant Professor
6	Dr. Kaustubh Ramesh Kambale	Assistant Professor
7	Dr. Moolchand Sharma	Assistant Professor (Temporary Faculty)
8	Dr. Vishvendra Pratap Singh	Assistant Professor (Temporary Faculty)
9	Dr. Swarnima Singh	Assistant Professor (Temporary Faculty)
10	Dr. Sumeet Kumar Sharma	Assistant Professor (Temporary Faculty)
11	Dr. Sunil Manani	Assistant Professor (Temporary Faculty)
12	Dr. Gaurav Pal Singh	Assistant Professor (Temporary Faculty)
13	Prof. Vishnu Girish C	Assistant Professor (Guest faculty)

11. PRODUCTION AND INDUSTRIAL ENGINEERING



Prof. R.M. Belokar

WORDS FROM HOD

The Department has two Bachelor programs namely B. Tech PIE and B. Des. Production & Industrial Engineering is a combination of design, manufacturing, management, and engineering sciences. An engineer with this discipline typically has a wide knowledge of engineering practices and is aware of the management challenges related to production. The goal is to accomplish the production process in the smoothest, most judicious, and most economical way. Production engineering encompasses the applications of material casting, machining, and joining processes; metal cutting and tool design; metrology; machine tools, machining systems; automation; jigs and fixtures; die and mould design; material science; design of automobile parts, machine designing and manufacturing using the latest techniques like CNC and additive/ rapid prototyping; while industrial engineering deals with work study, time and motion study, quality control, reliability, operations research, supply chain networking and management sciences. Production engineering also overlaps substantially with manufacturing as well as Industrial engineering.

The importance of design as a strategic tool for innovation in boosting industrial and national competitiveness is well-known and supported by the National Education Policy of India. To realize this goal. As part of its mission to support the nation & vision for design, Bachelor of Design program, a trailblazing initiative designed to nurture the creative visionaries and problem solvers of tomorrow. The goal of the Bachelor of Design program is to train students to be exceptional designers who use their knowledge of design principles, methods, and processes to improve society as a whole. The B. Des. program at PEC represents a transformative journey, empowering students to become catalysts of change in an increasingly complex and interconnected world. Through a combination of academic rigor, practical experience, and industry exposure, graduates emerge as versatile, forward-thinking designers poised to make a meaningful impact on society. The Department has the most modern infrastructure to undertake high-end teaching, research and developmental activities in its laboratories, besides highly qualified faculty. The student activities, research publications, workshops organized, MOUs and collaborations with reputed institutions and industries of our department reflects as one of the fastest growing departments in this institute.

ABOUT THE DEPARTMENT

The department of Production & Industrial Engineering is one of the oldest departments, in this stream in India. It was established at PEC in 1967 as “Production Engineering”. The department was renamed as Production and Industrial Engineering in 2014.



Strengths

The strength of the department lies in the potential of the students, commitment of the faculty and developed facilities in the area of machining, welding, casting, manufacturing, human engineering & assistive technology, total quality management, work design & ergonomics, production & operations management and value engineering. All the faculty members are doctorates from reputed institutes and the department has a wide alumni base.

Vision

To contribute to the society and industries at the national and international level through excellence in the field of Production and Industrial Engineering.

Mission

- To provide quality education in production and Industrial Engineering at graduate and postgraduate levels.
- To advance the frontiers of knowledge in Production and Industrial Engineering.
- To interact with industries, R&D organizations and premium education institutes etc.
- To serve the society by developing highly competent production and industrial engineers.

PROGRAMMES OFFERED:

- **Bachelor of Technology (B.Tech. in Production) and Bachelor of Design (B. Des.)**

The department offers a Four-year undergraduate programme leading to the degree of Bachelor of Technology (B. Tech.) in Production and Industrial Engineering with an intake of 40 students. The curriculum of Bachelor of Technology has been designed to provide competency in designing, implementing and managing manufacturing systems.

The curriculum is a blend of theory and practical courses in the areas of design, manufacturing, industrial engineering and management. The 24 weeks in- plant compulsory industrial training in industries of repute is a unique feature of the curriculum, since its inception. The four years, Bachelor of Design (B. Des.) course has been started from 2022 with an intake of 30 students.

- **Master of Technology**

Production and Industrial Engineering (Specialization in Digital Manufacturing)

The curriculum is a blend of advanced courses in Manufacturing and Industrial Engineering apart from courses in Advanced Mathematics and Design of Experiments and Research Methodology. The program requires two semesters of research work on an appropriate topic of Production / Industrial Engineering and submission of dissertation after completion of research work. The Production Engineering department is the cognate department of a self-supporting Interdisciplinary Programme (IDP) – M.Tech. in Industrial Design. This Masters programme provides in depth knowledge of design processes and latest design tools like 3D scanning, rapid product development, high performance visualization etc. The duration of M.Tech. Programmes for regular students are two years.

Sr. No.	Program Name	Corresponding UG Program/Department Name	Current Yr. Sanctioned Intake	Current yr. Admission
1	M. Tech., in Production & Industrial Engg. (Specialization in Digital Manufacturing)	Production & Industrial Engineering	18	Nil

- **Doctor of Philosophy:**

The department has facilities to carry out research leading to Ph.D. in the areas of Casting technology, Robotics and Computer Integrated Manufacturing, Non-Conventional Machining Processes, Welding Engineering, Industrial Engineering and Human factors Engineering.

- The department has well equipped laboratories in the fields of Machine Tools and Metal Cutting, Welding, Metrology, Non-Conventional Machining, CAD/CAM and Human Engineering.
- Research and Consultancy facilities exist for taking up research projects and industrial consultancy in the areas of Welding Engineering, Non-Conventional Machining, Industrial Automation, Work Design & Ergonomics, Plant Layout and Material Handling, CNC Operations, Total Quality Management, Value Engineering, Industrial Design and Human Engineering.
- Currently the department is involved in several research activities with more than 20 research scholars in the Ph.D. program.
- The department is also involved in the research activities with 20 research scholars in the Ph.D. program.

Laboratory Facilities: List of Laboratory Facilities are as follows:

- Welding Engineering Lab
- Advanced Casting Technology Lab
- Foundry Lab
- CAD/CAM/Digital Manufacturing Lab
- Cutting Machine tool and Metal Lab
- Metrology Lab
- Advanced Casting Setup



Research and Consultancy Facilities

List of Faculty Members:

Sr. No	Name of the Facility	Specialized Equipment Name	Equipment Details
1	Advanced Casting Setups	Vacuum Casting Machine	Model No. - 121-15/16, Renishaw Make
		Bottom Pouring Stir Casting Furnace for Al & Mg	Model No. - MSCF-1000CA1, Swamequip Make
		3 in 1 Investment Casting Machine	Model No. - Nikunj Make
2	Latest Welding Machine Setups for Research	SAW Machine	Model No. - AdorFontech Make
		Ultrasonic Plastic Welding Machine	Johnson Plastosonic Make
		Spot Welding Machine	
		MIG Welding Machine	Model No. - ESAB AB Make
3	Advanced Manufacturing Research Facilities	C.N.C Mini Mill	Model No. - Haas Make
		Integrated Reverse Engineering Solution consisting of 3D Printer, 3D Scanner, 3D CAD	
		Laser Engraving Machine	
4	Material Characterization and Testing Facilities for Research	3D Printer	LBD Maker
		Electric Discharge Machining	Model No. - Sparkonix Make
		Abrasive Flow Machine Setup	Developed Set-up
		Electronic Tensometer	Model No. - Ashian Make
		Metallurgical Microscope with Image Analysis	Model No. - IMS7001B, Visashakh Make
		Surface Roughness Tester	Model No. - SJ400, Mitutoyo Make
		Double Disc Polishing Machine	Model No.- DPM-33, Radical Scientific, equipment Pvt Ltd
		Micro Hardness Tester	Model No.-HV-1000B, HUAY Make
		Brinell cum Rockwell Hardness Tester	Model No.- ALB250Casteel Industries Gujrat, India

FACULTY MEMBERS

Sr. No.	Name	Designation
1.	Prof. Parveen Kalra	Professor
2.	Prof. Narendra Mohan Suri	Professor
3.	Prof. R. M. Belokar	Professor and Head
4.	Prof. R.S. Walia	Professor
5.	Dr. M. M. Goud	Associate Professor
6.	Dr. C. S. Jawalkar	Associate Professor
7.	Dr. Suman Kant	Associate Professor
8.	Dr. Mohit Tyagi	Associate Professor
9.	Dr. Rahul O Vaishya	Assistant Professor
10.	Dr. Jimmy Karloopia	Assistant Professor
11.	Dr. Gurpreet Singh	Assistant Professor
12.	Dr. Jasvinder Singh	Assistant Professor
13	Vibhao Athley	Assistant Professor (Temporary Faculty)
14	Shagun Sharma	Assistant Professor (Temporary Faculty)

12. CENTRE OF MANAGEMENT AND HUMANITIES (CMH)



Prof. Anju Singla

WORDS FROM HOD

In an era defined by rapid industrial growth and digital transformation, technical expertise alone no longer suffices. As a premier technical institution of higher education, Punjab Engineering College recognizes that technological research and education are not just about machines, automation and codes, but also about people, ideas and values. The Centre for Management and Humanities (CMH) stands at this very intersection. In today's fast-changing world, it's no longer enough to be technically sound. One must also be a good communicator, a thoughtful manager, and an ethical individual. Hence, CMH works closely with students to help them grow beyond the classroom. Through various expert talks, seminars, and workshops, we enable the students to

understand the complex functioning of the corporate world, economy, and society, and also prepare them to sensitively respond to various challenges faced by the world. The uniquely designed courses in Management, Economics, Finance, Languages and value-based courses such as Universal Human Values, aim to shape well-rounded individuals who can lead with both competence and compassion. Because in today's world, being technically sound is essential but being human is irreplaceable.

ABOUT THE DEPARTMENT:

The Centre of Management and Humanities (CMH) play a critical role in integrating management and humanistic perspectives within a technical education framework. The Centre offers core courses such as Communication Skills and Universal Human Values for first-year B.Tech. students and delivers a foundational course, Entrepreneurship and New Venture Creation, in collaboration with the Wadhwani Foundation for second-year B.Tech. students. For final-year undergraduates, CMH provides a suite of management courses including Fundamentals of Management, Managing Innovation and Change, Strategic Management, Financial Management, Business Environment and Business Laws, and Entrepreneurship and Project Management. It also offers a Minor specialization in Entrepreneurship and a range of Open Electives in Management and Humanities during the 4th, 7th, and 8th semesters.

For M.Tech. Students, the Centre delivers an integrated course on Soft Skills and Management, covering Communication, Professional Ethics, Entrepreneurship, and Intellectual Property Rights (IPR). CMH also offers Ph.D. programs across various Management domains and conducts a compulsory course on Research and Publication Ethics for all Ph.D. scholars and second-year M.Tech. students. Through its interdisciplinary curriculum and research engagement, CMH fosters holistic development, preparing students for academic advancement and professional excellence.

PROGRAMMES OFFERED: -

- Doctor of Philosophy (Management)

LABORATORY FACILITIES

The Centre operates a Language Lab equipped with 31 computers, utilizing advanced language learning software such as English Edge and Focus English. This facility provides students with the opportunity to enhance their English language skills through modern and innovative learning methods. It is anticipated that this initiative will assist students in aligning their perceptions with the diverse inputs received from various educational sources. The integration of technology, particularly through Computer-Assisted Language Learning, motivation for both students and instructors.

Additionally, a 65-inch Spectron Interactive LED Screen has been installed in the Language Lab, further enriching the interactive learning experience.



FACULTY MEMBERS

Sr. No.	Name	Designation
1.	Dr. Anju Singla	Professor & Head
2.	Dr. Nidhi Tanwar	Assistant Professor
3.	Dr. Harpreet Kaur	Assistant Professor (Temporary Faculty)
4.	Dr. Pratibha	Assistant Professor (Temporary Faculty)
5.	Dr. Rakesh	Assistant Professor (Temporary Faculty)
6.	Dr. Sadiya Jalal	Assistant Professor (Temporary Faculty)
7.	Dr. Shivani Gupta	Assistant Professor (Temporary Faculty)
8.	Prof. Anushree Thareja	Assistant Professor (Guest Faculty)
9.	Prof. Sumegha Vaid	Assistant Professor (Guest Faculty)

VII. RESEARCH CENTRES

1. CYBER SECURITY RESEARCH CENTRE (CSRC)



Prof. Divya Bansal

WORDS FROM HOC

Cyber Security Research Centre gives exposure to the students on cutting edge technologies in cyber security domain. CSRC aims at bridging gaps by being think tank for the nation using institutional frame work to bridge the divide between, the Government the military and the industry. CSRC also aims at bridging an ecosystem of academia and industry with much longer tenures. The Cyber Security Research Centre closely collaborates with Industry, Government, Academia and other International Forums to foster research in the area. The Centre is progressing well to become a valuable regional and national asset for the development of readiness and incidence response for protecting nation's Cyberspace. The Centre now has an established professional reputation in the area of Information security with peers overseas Universities and research institutions.

ABOUT THE CENTRE

It is a unique, first of its kind Research Centre having NASSCOM as consortium of industries, PEC as academia and DIT, Chandigarh Administration as administration amongst its collaborators. It has been established to provide research, training and advice to various stakeholders. CSRC faculties have worked with several banks to aid and advise them in handling cyber frauds and other economic crimes. Faculty is also involved in various outreach activities, trainings and awareness campaigns relevant to different stakeholders. In this endeavour, more than 300 police officers and defence personnel from all the tri services have been trained at CSRC in handling cybercrimes and investigation.

LABORATORY FACILITIES

- a) NVIDIA DGX Station with 4X Tesla A100 (40G) and 500 TFLOPS Mixed precision personal AI Supercomputer (For crawling and processing high computing and time-consuming data which is otherwise taking months)
- b) Various sensors & Smart watches & Mobile Phones and development kits like Arduino & Raspberry Pi (Development of IoT based projects are also available in lab)
- c) Reflective Ultra Violet Imaging Systems 20 Mbps (1:1) Fiber link Internet Connectivity



RESEARCH AND CONSULTANCY FACILITIES

- a) Cluster proposal under the cyber-Security (CS) Research of Interdisciplinary Cyber Physical Systems, INR
2.2 crores (for first year) Actual Project Cost: 6.68 crore, ICPS, DST, GoI.
- b) Framework for Generating Actionable- Intelligence from Cyber Space using Computational Techniques & Analysis, INR 69.9 lacs ICPS, DST, GoI.

PROGRAMMES OFFERED

- **Master of Technology:** Since 2010, the Centre has been successfully offering an M.Tech. in Computer Science and Information Security with updated curriculum covering diverse cutting-edge technologies and research areas of national interest.
- **Doctor of philosophy:** A Doctorate Programme is also offered in various key areas like
 - Information Warfare
 - Behavioral studies using Social Computing
 - Wireless Network Security
 - Biometric Security
 - Data Privacy
 - Smartphones based user tracking and localization
 - Cybercrime, Investigations & Forensics
 - Human Aspects of Security
 - Information Security Management
 - Network Security
 - Threat Intelligence and Penetration Testing
 - Security and Privacy Measurements
 - Cryptography

FACULTY MEMBERS

S.No.	Name	Designation
1.	Dr. Divya Bansal	Head CSRC Professor, CSE
2.	Dr Monika Singh	Assistant Professor (under Self Supporting Programme) of MECSE(IS) (Temporary Faculty)
3.	Dr Vivek Dabra	Assistant Professor (under Self Supporting Programme) of MECSE(IS) (Temporary Faculty)

VIII. ACTIVITIES IN CAMPUS LIFE

1. CULTURAL CLUBS

Art and Photography Club

The Art and Photography Club is a lively and creative space at our college where students come together to share their love for art and photography. It's a place where ideas flow freely, whether you're into painting, sketching, crafts, or capturing moments through a lens. Members get to learn the basics of photography, like how exposure works and what makes a great composition, all through fun and interactive workshops. Beyond the technical skills, the club is all about growing as artists, supporting each other, and creating something meaningful together.

Club	Event Name	Event Description	Date
APC	Diwali art & photography	Photography competition on Diwali theme	1st week of November, 2024
	Spectrum	National Level Annual Flagship Event on art and photography	Last Week of March 2025
	Photo-walk	photo walks on themes like architecture, landscape, nature, portrait	2nd week of August, 2024

Music Club

The Music Club brings energy and soul to our college, lighting up every major event with unforgettable performances. From Independence Day to Republic Day, their presence adds rhythm and emotion to the celebrations. They kick off the year with CHORDS, a warm welcome where freshers take the stage for the first time. Then comes ENCORE in the second semester, a lively showcase that recharges the campus vibe. As the year winds down, INTERLUDE offers a heartfelt send-off to final-year students, filled with memories and music. Beyond these signature events, the club is a regular at FRIDAY NIGHTS, PECFEST, and conferences, and they've consistently made their mark in competitions outside campus too.

Club	Event Name	Event description	Date
Music Club	Chords	The first stage event is prepared and performed by the recruits of the new session	3rd week of October, 2024

Music Club	Encore	The entire club comes together to present multi-genre performances	4th week of March, 2025
Music Club	Interlude	Farewell event for the final year	4th week of March, 2025

Dramatics Club

Dramatics is the heartbeat of art and culture on our campus, and one of the most spirited clubs you'll find here. With two vibrant wings: Dance and Acting, it opens up a world of performance for students who love to express themselves. From energetic dance routines to powerful theatrical pieces, the club offers countless chances to shine. We bring stories to life through stageplays, streetplays, skits, and monologues, and showcase diverse dance forms at college events and festivals across India. Every performance is a labor of love, and we take immense pride in representing our college with passion and excellence.

Club	Event Name	Event Description	Date
Dramatics Club	Aaghaz	First Stage Event for the New 1st Yearites in the club	3rd week of November, 2024

Speakers' Association and Study Circle

The Speakers' Association and Study Circle is the go-to literary club on campus, known for shaping confident speakers, sharp thinkers, and creative minds. It's a space where students grow not just in skill, but in self-belief and leadership. SAASC nurtures four core forums: speaking, writing, reading, and quizzing, giving members a chance to explore and excel in each. To bring these to life, the club is organized into five vibrant societies: BookSoc, DebSoc, MunSoc, QuizSoc, and Cognition. Whether it's preparing for competitions or simply finding your voice, SAASC is where ideas take flight and potential turns into performance.

Club	Event Name	Event description	Date
SAASC	Trivium 15	International Asian Parliamentary Debating national competition, 14th edition of Trivium this year	26st to 28rd October, 2024
SAASC	Verve 23	Annual National Quizzing tournament	3rd Week of January, 2025
SAASC	PECMUN 12	Annual MUN Competition	1st/2nd week of April, 2025

Projection and Design Club

The Projection and Design Club is a creative powerhouse at PEC, bringing together students who are passionate about visual storytelling and digital art. It's a space where imagination meets technology, and ideas come to life through screens and sketches. Whether you're into videography, editing, animation, or design, PDC gives you the tools and the stage to showcase your talent. Members dive into projects like fan art, posters, short films, documentaries, and more, each one a chance to push boundaries and explore new styles.

Club	Event Name	Event Description	Date
PDC	Film Festival	Movie Making Competition	8-10 th Nov, 2024

Rotaract Club

The Rotaract Club at PEC, Chandigarh, is a respected youth initiative under Rotary International, guided by the motto "Service above Self." Supported by the Rotary Club Chandigarh and part of district 3080, it focuses on shaping responsible and compassionate leaders. The club creates opportunities for students to understand and embody the values of citizenship, leadership, and service. Through meaningful projects and active engagement, members grow into individuals who lead with empathy and purpose. Rotaract isn't just about volunteering, it's about building character, making an impact, and inspiring change within and beyond the college community.

Communication, Information & Media Cell (CIM)

The Communication, Information & Media Cell is the voice of our college, run by students who keep the campus connected and informed. It's the hub for everything media, handling public relations, curating content, and managing our digital presence. The team covers campus events, drafts press releases, and ensures we're seen and

heard in the right places. They also design and publish PECBUZZ, our official newsletter, packed with updates on research, conferences, and student life. From Facebook, Instagram to X (previously Twitter), the Cell keeps our social media buzzing, making sure that every story gets told and every moment gets shared.

Club	Event Name	Event Description	Date
CIM	PR Writing Workshop/Quirky Quiz/Netagiri	Workshop for students on how to write Press Releases etc.	8 th -10 th November, 2024

Hindi Editorial Board

The Hindi Editorial Board is a proud torchbearer of Hindi literature at PEC Chandigarh, celebrating the depth and beauty of the language through student-led initiatives. It's one of the three editorial boards on campus, and it stands out for nurturing creativity and cultural pride. HEB offers a space where students can express themselves through poetry and prose, contributing to a vibrant literary community. The club hosts events that have earned praise from seasoned writers, and its members have brought home honors from top competitions, including those at IITs. With annual workshops that dive into ghazal, nazm, shayari, and more, HEB ensures that every budding poet finds their voice and every idea finds its rhythm.

Club	Event Name	Event Description	Date
Hindi Editorial Board	Hindi Diwas	This day is being celebrated to commemorate the glory of Hindi language through competitions and hosting dignitaries	18 th September, 2024
Hindi Editorial Board	Matrabhasha Diwas	This day importance of regional languages are highlighted through poetry	21 st February, 2025

Punjabi Editorial Board

The Punjabi Editorial Board (PEB) is one of the three editorial boards at PEC, showcasing the vibrant culture and rich heritage of Punjab. Known for its energetic events and activities, PEB offers its members an exciting and engaging experience. PEB features six disciplines, providing opportunities for growth and responsibility in areas of passion: Bhangra, Giddha, Theatre, Singing, Literature

Women Empowerment Cell (WEC)

Club	Event Name	Event Description	Date
Punjabi Editorial Board	Dastak	An event by the newly recruited members of PEB	3rd February, 2025
Punjabi Editorial Board	Raunakaan	Event performed by 4th year students as a homage to Punjabi culture	4th week of April, 2025

The Women Empowerment Cell (WEC) was formed in 2016 under the Saksham Scheme of UGC to empower and orient women to recognize their true potential and to help them attain their stand in a competing world. Our goal is the comprehensive development of women in all spheres of their lives. It also helps in creating awareness about important issues related to women and provides a forum for discussion and deliberation on a range of issues through various activities and events such as workshops, pageants, conclaves, surveys, and camps.

Electoral Literacy Club

The newest addition to the clubs at Punjab Engineering College, the Electoral Literacy Club aims towards spreading awareness about elections, democracy, and everything that is needed for the youth of the country to become informed and responsible citizens.

Society	Event	Event Description	Date
Electoral Literacy Club	Electoral Literacy Awareness Campaign	Organised electoral literacy campaigns and student surveys	25 January 2025

2. TECHNICAL SOCIETIES

ASPS (Astronomy and Space Physics Society)

The Astronomy and Space Physics Society at PEC fosters interest in astronomy, astrophysics, and space sciences through workshops, seminars, and guest lectures. It offers hands-on experiences like stargazing, telescope observations, and competitions while encouraging research and interdisciplinary collaboration across engineering, physics, and other fields.

Society	Event name	Event Description	Date
ASPS	Astronomix	Organized a vibrant 3-day celebration of curiosity, innovation, and passion for astronomy. Designed to ignite minds and foster collaboration, by bringing together physics enthusiasts, space explorers from across the region.	4-6 October, 2024
ASPS	Nightsky Odyssey	Organized a tri-city telescope workshop, offering an immersive hands-on experience to students and passionate astro- enthusiasts.	5-7 April.2024

ATS (Aero Tech Society)

Founded in 2020 at PEC, ATS focuses on aerospace innovation, developing flying objects, and bridging academia and industry. With the motto "train like a soldier, create like an artist," it organizes workshops, and expert lectures, and supports students in competitions, providing multidisciplinary skills and hands-on experience.

Society	Event name	Event Description	Date
ATS	Aero-Modelling Competition	Participants put their skills to the test by designing and flying their own gliders and RC planes. The competition showcased impressive creativity, precision, and a deep understanding of aerodynamics	17 November, 2024
ATS	Drone verse	Speakers include prominent figures like Sh. Sudhir Dhamija from DRDO and Dr. Shashi Poddar from CSIR- CSIO. The day will also feature a poster presentation competition and an exhibition outside the	7-8 March, 2025

ASCE-PEC (American Society of Civil Engineers)

Founded on January 31, 2014, ASCE-PEC is the first civil engineering society at PEC, part of the global ASCE network. It enhances students' technical skills through workshops, seminars, and industry interactions while encouraging participation in technical fests and conferences.

Society	Event name	Event Description	Date
ASCE	Mini Mansion	Participants were invited to unleash their inner architect by using mini bricks to create a home they had always envisioned.	18th November, 2024
ASCE	Spaghetti Bridge	Bridge design is the process of planning, analyzing, and constructing a bridge. Before proceeding with the construction of complex and strong bridges it is necessary to model it and test its performance.	17th November, 2024

SAE (Society of Automotive Engineers)

SAE at PEC is a hub for automotive enthusiasts, promoting discussions on trends and innovations in the automotive sector. Members design and manufacture FSAE race cars and BAJA off-road vehicles, following a "learn and teach" philosophy where seniors mentor juniors through hands-on experiences. Entry involves a rigorous selection process.

Society	Event name	Event Description	Date
SAE	HoverCraft	This is an exciting and dynamic event that challenges participants to design an innovative hovercraft that inflates and is agile enough for tight manoeuvres.	17 th November, 2024

SME (Society of Manufacturing Engineers)

SME is a nonprofit organization advancing manufacturing for over eight decades, offering events, media, training, and development opportunities. Through the SME Education Foundation, addresses industry knowledge and skill needs. Its motto, "Making the Future Together," highlights collaborative growth in the manufacturing sector.

Society	Event name	Event Description	Date
SME	Aquajet	Here participants are required to design and build a water rocket within the specified dimensions robust enough to withstand the pressure and when launched from the launch pad achieve the maximum range.	18 th November, 2024

ASME (American Society of Mechanical Engineers):-ASME is a global association promoting multidisciplinary engineering. The ASME PEC Chapter fosters collaboration, knowledge sharing, and skill development, nurturing technical curiosity among PEC students while contributing to solutions that improve lives globally.

Society	Event name	Event Description	Date
ASME	Road Showdown	Participants utilized their knowledge of materials, construction techniques, and design principles to address real-world challenges such as load-bearing capacity, durability, and environmental impact.	12 th April, 2025

SESI (Solar Energy Society of India): - SESI PEC promotes renewable energy, especially solar, by connecting students with national and international clean energy initiatives. As part of the Solar Energy Society of India (SESI), it educates and encourages sustainable energy solutions. Founded in 1978, SESI supports solar, bioenergy, and hydropower, aligning with goals of sustainability and carbon reduction. SESI PEC offers hands-on experience, preparing students for global careers in renewable energy.

IEEE PEC Student Chapter: -IEEE PEC, one of the largest technical societies at Punjab Engineering College, enhances students' technical and professional skills. With 100+ members, it organizes workshops on topics like C++ coding, Arduino programming, and hardware design, supporting students in computer science, electrical, and electronics engineering through lectures, competitions, and national events.

Society	Event name	Event Description	Date
IEEE	Roboscoccer	The robots were equipped with sensors to detect the ball and other robots, allowing them to strategize and manoeuvre effectively. Robosoccer combines elements of robotics, programming, and teamwork.	19th November, 2024

Robotics Society: -The Robotics Society at Punjab Engineering College fosters problem-solving skills through designing and building robots for national and international competitions. Members work on projects ranging from basic robots to advanced quadcopters, enhancing creativity and gaining hands-on experience. Passion and a willingness to learn are the only requirements for joining.

Society	Event name	Event Description	Date
Robotics Society	Independence Day Event	The students made a modified quadcopter for flag hoisting and also a robot was made from scratch with the purpose of presenting the token of appreciation to the dignitaries present at the venue.	15 th August, 2024
Robotics Society	Robowar	The event challenged students to design and build robots capable of battling each other in an arena. Robots were equipped with various weapons and sensors.	18th - 19th November, 2024
Robotics Society	Roborace	Robots had to navigate obstacles, follow designated paths, and complete various tasks within a specified time frame.	18th November, 2024

IIM (Indian Institute of Metals): -The Indian Institute of Metals (IIM), with over 75 years of experience, promotes metallurgical science and technology. The PEC student chapter, also the Chandigarh chapter, supports this mission through industry interactions and events, enhancing members' organizing and soft skills. It hosts gatherings that foster knowledge sharing between industry professionals and students.

Society	Event name	Event Description	Date
IIM	Tech Pictionary	Participants draw the word for the audience to guess. Words will be answers to questions in science and technology.	17 th November, 2024
IIM	Hit the dart	Participants hit the dart on the correct answer based on the question asked.	18 th November, 2024

ACM-CSS (Association for Computing Machinery - Computer Science Society): -

PEC ACM CSS is a vibrant community fostering leadership and collaboration among Computer Science students. It creates a supportive environment for knowledge sharing, focusing on areas like Competitive Programming, Artificial Intelligence, Development, Cyber Security, ACM Socials, and Women in Tech. Through workshops, projects, and events, members can develop hands-on skills, pursue their interests, and prepare for careers in technology.

Society	Event name	Event Description	Date
ACM	GANesis Workshop	"GANesis" provided a valuable platform for learning and innovation in the rapidly evolving landscape of artificial intelligence.	October 18, 2024
ACM	Intro to Linux and Cybersecurity	The session covered the basics of Linux commands, introducing participants to the command-line interface, file management, and system navigation.	October 19, 2024
ACM	ICPC Training Camp	The camp provided a thorough introduction to competitive programming, equipping newcomers with the skills needed to compete in national-level contests.	October 25, 2024

IGS PEC (Indian Geotechnical Society): -Founded on July 27, 2016, IGS PEC organizes technical and non-technical events, workshops, and conferences for students. The chapter provides exposure to Geotechnical Engineering, guided by experienced faculty, and offers a platform for skill development and networking with industry professionals. By bridging academia and industry, IGS PEC prepares students for successful careers in geotechnical engineering and hosts numerous events to enhance interest in the field.

Society	Event name	Event Description	Date
IGS	Mechanically Stabilized Earth (MSE)	The objective of the competition is to make the most economically feasible MSE, which sustains the load from the compression testing machine.	19th September, 2024

IX. SPORTS ACHIEVEMENTS

ACHIEVEMENTS OF SPORTS 2024-25

Sr. No.	Name	SID	Branch	Event	POSITION (mention only 1 st , 2 nd & 3 rd position) outside event
1	Bhavtegh Singh Gill	21101002	Aerospace	ISSF Junior World Cup July, 2024	2nd (Silver Medal)
				FISU World University Championship	1st (2 Gold Medal)
				Junior World Championship	2nd (Silver Medal)
				39 th National Game	3rd (Bronze Medal)
				39 th National Games and Mixed Team	2nd (Silver Medal)
				67 th NSCC Senior Championship	1st (Gold Medal)
				67 th NSCC Junior Championship	2nd (Silver Medal)
2	Yashika Sharma	22103059	Computer Science	20 th Asian Roller Skating Championships	1st (Gold Medal)
				62 nd National Roller Skating Championship	1st (Gold Medal)
				Federation Cup-2024	1st (Gold Medal)
				Federation Cup-2025	1st (Gold Medal)
				State Roller Skating Championship	1st (Gold Medal)
3	Anikait Kanwar	22105059	Electronics	All India Inter-University Taekwondo (Men) Championship	2nd (Silver Medal)
4	Nanki	22103060	Computer Science	State Roller Skating Championship	3rd (Bronze Medal)
5	Kashvi Garg	23110029		32 nd Junior National Fencing Championship	3rd (Bronze Medal)
6	Sanchi Bhargava	24105119	Electronics	Senior Fencing State Championship	3rd (Bronze Medal)
7	Ridham Preet Singh Dandiwal			25M Centre Fire Pistol Junior Men Team, NR	1st (Gold Medal)

X. EXTERNAL RELATIONS

MoUs with other Organizations during (2024-25)

Sr. No.	MOU with Organization	Nodal Officer	MoU with Industry/ Government / Institute	Purpose of MoU	MoU Signing Date	MoU Validity (in Years)
1.	Punjab State Power Corporation Limited (PSPCL)	Dr. J.D Sharma	Government	Academic and Research collaborations	25.09.2024	03 Years
2.	Bureau of Indian Standards (BIS), Chandigarh	Dr. Jimmy Karloopia	Government	Academic and Research collaborations	02.05.2025	05 Years
3.	Power Grid Corporation of India Limited	Dr. Jasbir Singh	Government	Academic and Research collaborations	06.06.2025	01 Years 09 Months

MOU's SCHOLARSHIP

Sr. no.	Name of the Alumnus	MoU's name	MoU Signing Date
1	Alumnus Ram P. Kumar	Smt. Badami Devi & Sh. Raja Ram Chaudhary memorial Scholarship	13.09.2024
2	Alumnus Ketan Chaudhary	PEC Young Achievers Scholarship	03.07.2024
3	Dr. Umesh Sharma	Smt. Krishna Devi Sharma & Sh. Dharam Chand Sharma Scholarship	03.07.2024
4	Alumnus Madan Gambhir	Laksh Scholarship	05.12.2024
5	Alumnus Sanjay Beri	Sh. Bhisham Kumar Beri & Smt. Sudesh Beri Scholarship	09.12.2024
6	1985 Batch of Mechanical Engineering	Samastha-1981-1985 Mechanical Batch Scholarship	24.12.2024

XI. ALUMNI ENGAGEMENT & ACTIVITIES

Punjab Engineering College Hosts Global Alumni Meet 2025



Punjab Engineering College (Deemed to be University), Chandigarh and PECOSA hosted its prestigious *Global Annual Alumni Meet 2025*, celebrating excellence, nostalgia, and lifelong bonds. The event drew distinguished alumni, dignitaries, and industry leaders, reaffirming PEC's legacy as a premier engineering institution. Er. Gursharan Singh (Batch of 1981), Senior Vice President at Micron Technology, USA, graced the occasion as Chief Guest. Alumni from batches spanning 1955 to 2022 representing India, Nepal, the USA, UK, Gulf nations, Canada, and Australia came together to reconnect and discuss PEC's vision forward. Prominent attendees included Er. Harcharan Singh Bedi (Batch of 1955), Prof. Renu Vig (Vice-Chancellor, Panjab University), Dr. Dharam Pal (IAS), Ms. Kanwardeep Kaur (SSP, Chandigarh), and Er. Gurkirat Kirpal Singh (IAS), all of whom shared heartfelt memories of their PEC journey. This year, we proudly honor the landmark anniversaries of multiple graduating classes: **Class of 1995**- Celebrating **30 years**, **Class of 1990** –Celebrating **35 years**, **Class of 2000** – Celebrating **25 years**, **Class of 2005** – Celebrating **20 years**, **Class of 2010** – Celebrating **15 years**, **Class of 2015** – Celebrating **10 years**, **Class of 2020** – Celebrating **5 years**.



“Remembering The Legends”: A Cultural Tribute to PEC’s Iconic Alumni

The Punjab Engineering College Old Students Association (PECOSA) and Punjab Engineering College (Deemed to be University), Chandigarh, organized an annual cultural evening, “*Remembering The Legends*,” a heartfelt tribute to the extraordinary life achievements of three globally renowned alumni. The evening began with the unveiling of busts honouring *Padma Vibhushan* Dr. Satish Chandra Dhawan (Batch of 1945, Mechanical), *Padma Bhushan* Er. Jaspal Singh Bhatti (Batch of 1978, Electrical), and aerospace pioneer Er. Kalpana Chawla (Batch of 1982, Aerospace), recipient of the NASA Distinguished Service Medal in 2003.



A special video message by ESA/NASA astronaut Jean-François Clervoy, mentor to Er. Kalpana Chawla, was presented in her memory. This was followed by a message from Ms. Jyotsana Dhawan, renowned biologist and daughter of noted alumni, EX-Chairman, ISRO was also showcased. A short film highlighting the lives of Dr. Satish Dhawan, Er. Kalpana Chawla, and Er. Jaspal Bhatti was also showcased. Prof. Rajesh Kumar Bhatia, Director of PEC, extended heartfelt thanks to all dignitaries and the PECOSA team for organizing the impactful event. In an emotional address, Mrs. Savita Bhatti fondly remembered her late husband, Er. Jaspal Singh Bhatti, thanking PEC for honoring his legacy with a commemorative bust. Dr. Satish Kumar, in his keynote, reflected on the inspiring journeys of Dr. Satish Dhawan, Kalpana Chawla, and Jaspal Bhatti urging the audience to foster innovation and adaptability in today's dynamic world. Chief Guest Ms. Purna Puri described the event as deeply inspiring, celebrating the lasting legacies of these icons while emphasizing the transformative power of education and visionary leadership.

Scholarship's/Contribution of Alumni/Corporate

Scholarship (July 2024 to June 2025)	No. of students supported	Amount Awarded (in rupees)
Notification PEC/HACIR/2025/153 dated 21.05.2025 & PEC/HACIR/2025/172 dated 10.06.2025		
Lt. Col SCS Guleri & Shama Guleri "Keep Rising" Merit Scholarship	02	1,76,000/-
Yogesh Kumar Platinum Jubilee Scholarship	01	1,00,000/-
SP Gupta Memorial Scholarship	02	1,76,000/-
Smt. Badami Devi & Sh. Raja Ram Chaudhary Memorial Scholarship	01	1,76,000/-
Smt. Krishna Devi & Sh. Dharam Chand Sharma Scholarship	01	50,000/-
Capt. Hari Gopal Mehta & Smt. Krishna Mehta Scholarship	01	94,000/-
Vedamrit Memorial Scholarship	01	50,000/-
Sushil Kumar Khaneja Merit-cum-Means Scholarship	01	50,000/-
Harnand Lal & Parsinni Devi Dhir Memorial Scholarship	01	50,000/-
Hari Ram Murari Lal Gupta Memorial Scholarship	01	50,000/-
P.V Rao Memorial Scholarship	01	50,000/-
1965 Alumni Scholarship	02	1,00,000/-
Sankalp Scholarship (Benevolent Scholarships)	02	2,00,000/-

Category	No. of Students Supported
PWD Category	01
BPL Category	23
Income Less Than <5LPA-Half Free Ship	17

Scholarship(July 2024 to June 2025) Notification PEC/HACIR/2025/153 dated 21.05.2025	No. of students supported	Amount Awarded(in rupees)
Notification PEC/HACIR/2024/267 dated 09.12.2024 & PEC/HACIR/2025/01 dated 08.01.2025		
Prerna Scholarship	04	2,00,000/-
Satya wati & Gulzari Lal Gagneja Scholarship	01	62,500/-
Samastha 85 Scholarships	02	1,00,000/-
Vedamrit Memorial Scholarship	01	50,000/-
XLPATT-TTC	01	1,76,000/-
PEC Young Achievers Scholarships	04	3,5,2000/-
Sushil Kumar Khaneja Merit-cum-Means scholarship	03	1,50,000/-
Shyam S. Chaudhary Scholarship	01	50,000/-
Brij Bhushan & Smt.Bimla Bhatnagar Scholarships	01	1,08,000/-
Harnand Lal & Parsinni Devi Dhir Memoiral Scholarship	01	50,000/-
D.D Dhokte Memorial Scholarship	01	50,000/-

Category	No. of Students Supported
PWD Category	04
BPL Category	20
Income Less Than <5LPA-Half Free Ship	49

XII. FACULTY ACTIVITIES & RECOGNITIONS

1. HONORS AND AWARDS

Sr. No.	Name of faculty	Details of Honour/Award	Name of Organization
Physics Department			
1	Professor Sanjeev Kumar	Best Teacher Award on Teacher's Day by PEC	PEC, Chandigarh
2	Professor Sandeep Kumar	Best Teacher Award on Teacher's Day by PEC	PEC, Chandigarh
3	Professor Shobhna Dhiman	Best Teacher Award on Teacher's Day by PEC	PEC, Chandigarh
4	Dr. Shilpi Chaudhary	Best Teacher Award on Teacher's Day by PEC	PEC, Chandigarh
Computer Science & Engineering Department			
1	Dr. Nitin Kumar	Best Teacher Award in High Impact Research Publication	Punjab Engineering College Chandigarh
2.	Dr. Poonam Saini	Best Teacher Award in High Impact Research Publication	Punjab Engineering College Chandigarh
3.	Dr. Mamta Dabra	Best Teacher Award in Research and Book Author	Punjab Engineering College Chandigarh
4.	Dr. Satnam Kaur	Best Teacher Award in Research	Punjab Engineering College Chandigarh
Electronics & Communication Engineering Department			
1.	Prof. Neelam Rup Prakash	Best Teacher Award	Punjab Engineering College
2	Prof. Arun Kumar Singh	Best Faculty Award	Punjab Engineering College
Civil Engineering Department			
1	Dr. Arshdeep Singh	Elected as President ASCE IS Northern Region	ASCE IS
Aerospace Engineering Department			
1	Dr. Rakesh Kumar	'Best Paper Award' in AIMACE- 2025 for paper presented on 'Investigation of Variation in the Leading Edge Shapes on the Aerodynamic Characteristics Over a Delta Wing'	Amity University, Dubai (February 19-20, 2025)
2.	Dr. Prabhjeet Singh	'Best Paper' Award in AIMACE- 2025 for paper presented on "Neural Network Based Flight Attitude Control Using Robust Sliding Mode"	Amity University, Dubai (February 19-20, 2025)

Production and Industrial Engineering Department			
1	Prof. RS Walia	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
2	Prof. R M Belokar	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
3	Dr. Mohit Tyagi	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
4	Dr. Rahul Vaishya	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
5	Dr. Jimmy Karloopia	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
6	Dr. Jasvinder Singh	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
7	Dr. Gurpreet Singh	Best Faculty Award for Maintaining High Standards in the Category of Research. 05 th Sep 2024	Punjab Engineering College (Deemed to be University), Chandigarh
Electrical Engineering Department			
1	Dr. Ajay Kumar	Certified Entrepreneurship Educator	Wadhwani Foundation
		Best Paper Award in 2024 IEEE 11th Power India International Conference (PIICON)	EEE Delhi Section and MNIT Jaipur
2	Dr. Shimi S.L	National Teacher Award 2024	Ministry of Education (MoE), Government of India
		Best Teacher Award in the category of Research	PEC (Deemed to be University), Chandigarh

Mechanical Engineering Department			
1	Dr. Alakesh Manna	Certificate of appreciation for recognition in Top 2% Most Cited Scientist in the World -2024	Stanford University and Elsevier
2	Dr. Kamal Kumar	Best research paper award in the International Conference on Design and Manufacturing Technologies, ICDMT-2024, for an excellent research paper titled 'Fabrication of Zinc based Ag + Fe + Mg Nano-particles reinforced Bioabsorbable Composite' Best Teacher's Award (5 th September 2024)	Punjab Engineering College, Chandigarh; Design Innovation Center (DIC), IIT-Roorkee; and Central Scientific Instruments Organization, Chandigarh PEC-Chandigarh
3	Dr. Sarbjit Singh	Best Teacher Award (5 th September 2024)	PEC-Chandigarh
4	Dr. M.P. Garg	Best Teacher Award (5 th September 2024)	PEC-Chandigarh
5	Dr. Lokesh Rohilla	Best Teacher Award (5 th September 2024)	PEC-Chandigarh
Centre of Management and Humanities (CMH)			
1.	Dr. Nidhi Tanwar	Best Teacher Award under patent category in year 2024	Punjab Engineering College Chandigarh

2. VISITS OF FACULTY MEMBERS TO OTHER INSTITUTIONS

Chemistry Department				
Sr. No.	Name of Faculty	Institute/Organization visited	Purpose of visit	Dates of visit
1.	Prof. Vasundhara Singh	I.K. Gujral Punjab Technical University, Kapurthala	Online meeting of BoS- Chemistry to discuss scheme and syllabus of Pre-PhD Coursework in Chemistry	17 th December, 2024
Physics Department				
1	Dr. Shilpi Chaudhary	INST Mohali	Expert Selection of PhD Admission	16 th June 2025
2	Prof. Sandeep Kumar	NABI, Mohali	Member, Screening Committee for Scientists	20 th June, 2025
		PU Chandigarh	Member, Screening and Selection Committee for Project Fellow and Post Doctoral Fellows	26 th May, 2025
			Expert for selection of Principal Project Associate, Project Scientist-II, Project Scientist-I	24 th September, 2024
Mathematics Department				
1	Dr.Sumati Mahajan	NITTTR, Chandigarh	Expert Lecture in FDP "Engineering Optimization with MATLAB" during October 21 - 25, 2024	October 23, 2024

2	Dr. Asha Gupta	Thapar Institute of Engineering & Technology, Patiala	Subject expert for the Research faculty selection process	22nd October 2024
3	Dr. Asha Gupta	SVKM's NMIMS Deemed-to be University, Chandigarh	Panel member of the Selection Committee for selecting a suitable candidate for a Faculty (Math's) position	April 28, 2025

Computer Sci.& Engineering Department

1	Dr. Nitin Kumar	Chitkara University	Expert Lecture	17th September, 2024
2	Dr. Sanjeev Sofat	Shri Shivaji Institute of Engineering and Management Studies, Parabhani	NAAC Visit	26th November, 2024-27th November, 2024
		Somaiya Vidyavihar University Mumbai	NAAC Visit	29th January, 2025
		Delhi Technological University	Selection Committee	8th January, 2025-14th January, 2025
3	Dr. Poonam Saini	CSDE, Panjab University	Expert Lecture	1st July, 2024
		SNCI, Panjab University	Invited Speaker	28th September, 2024
		CSIR-CSIO Chandigarh	Expert Lecture	21st October, 2024
		CDAC Mohali	Expert Lecture	21st November, 2024
4	Dr. Mamta Dabra	Regional Police Wireless Training Institute, Chandigarh	Expert Lecture	09th August, 2024
5	Dr. Satnam Kaur	Regional Police Wireless Training Institute, Chandigarh	Expert Lecture	09th August, 2024

Civil Engineering Department

1.	S.K. Singh	Haryana Public Service Commission, Haryana	Advisor in the interview for Environmental Engineer	5 th July, 2024
		Chandigarh College of Engineering & Technology, Sector -26, Chandigarh	Member of selection committee for guest faculty	3 rd Sept 2024

2	Dr. Sarita Singla	IISER Mohali	Technical Expert (Structural Engineering)	15 April 2025
		Chandigarh University	External Examiner for PhD Synopsis entitled “Behaviour of Nanomaterial based Geopolymer at Elevated Temperature”	4 th September 2024
		Punjabi University, Patiala	Outside Expert on Screening Committee constituted to screen the work of candidates the subject of civil engineering for placement as Assistant Professor Stage I to II and II to III	12 th May 2025
		Chandigarh University	External Examiner for PhD Thesis entitled “Approach of artificial Intelligence for analyzing properties of concrete by using Metakaolin and Aplite”	5 th March 2025
		Haryana Public Service Commission, Panchkula	Member in Interview for selection of Assistant Engineer (Civil)	17 th December 2024 to 19 th December 2024
3	Dr. Geeta Arora	Chandigarh University	BOS meeting for M.Tech. (Env. Engg.)	7 th March 2025
4	Dr. Mohit Kumar	Madhya Pradesh Public Service Commission Residency Area, Indore (M.P.)	Questionnaire (paper setter) for the work of creating the question bank for the upcoming examination.	29 th to 31st May, 2025
		University Institute of Technology, Summer Hills, Shimla	Expert for the conduct of Practical Examinations	1 st August, 2025

Aerospace Engineering Department

1.	Dr. Rakesh Kumar	KARE (Kalasalingam Academy of Research & Education, Madurai), TN	NBA visit	11-13th April, 2025
2.	Dr. Rakesh Kumar	MVJ College of Engineering, Bengaluru	NBA Visit	27-29th December, 2024
3	Dr. T.K. Jindal	Gopalan College of Engineering and Management, Bangalore	NBA Visit	21 – 23rd March, 2025

Production and Industrial Engineering Department

1	Prof. RS Walia	Gandhi Institute of Excellent Technology, Odisha	NBA	22 nd - 24th Nov. 2024
---	----------------	--	-----	-----------------------------------

Electrical Engineering Department				
1	Dr. Shimi S.L	CSIR-CSIO, Chandigarh	Selection Committee for Technician in the area of Electrician Post Code T03-25, advertised vide Advertisement No. CSIR-CBRI-5/2025	28 th - 29 th June, 2025
		E&ICT Academy IIT, Roorkee and Chandigarh University (online)	Delivered an expert talk on “Big Data Analytics for Electric Vehicles Technology: Exploring Advancements in Automotive Industry” on May 14, 2025 (6:00 to 08:00 PM) during our Faculty Development Program titled “AI-preneurship: Building the Future with Deep Learning Innovations”, held from May 12 to May 23, 2025.	14 th May, 2025
		CCET, Chandigarh	Training programme on "Climate Change and Decarbonization Technologies" from 21.10.2024 to 25.10.2024 organized by NITTTR, Chandigarh	24 th , October, 2024
		CSE, NITTTR, Chandigarh	Delivered a Lecture on ANFIS and NN hardware implementation for Engineering Application Short-Term Course (STC) on "Matlab in Engineering Teaching and Applications" (OPlan CSE-11) from January 20 to January 24, 2025	23rd Jan, 2025
		EE, NITTTR, Chandigarh	Delivered a Lecture on Genetic Algorithm and its Applications in FDP on “Bioinspired Optimisation Techniques” during 26 – 30 May 2025	26th May, 2025
		Chandigarh University, Gharuan	Delivered a Lecture on Electrical vehicle Technology	13 Feb 2025
		Mechanical Engineering Department, NITTTR, Chandigarh	Delivered expert talk on 'Battery Management System' in one-week FDP on 'Advances in Automotive Technologies’ from March 10 to 14, 2025	13th March 2025
		Mechanical Engineering Department, NITTTR, Chandigarh	Research Advisory Committee (RAC) meeting	5th April, 2025, 19th July, 16th September, 2024
		Chitkara University,	Delivered expert talk on Power Electronics and its Hardware implementation	9th Oct, 2024

		Rajpura		
		SVIET, Punjab	Delivered expert talk on MATLAB and its Hardware implementation for Engineering Applications	10th Oct, 2024
2	Dr. T. S. Saggu	IE, Chandigarh	Invited as Keynote Speaker on “National Energy Conservation Day” organized by “The Institution of Engineers, Chandigarh”	14th Dec, 2024
		DRDO, Chandigarh	Invited as interview expert of Selection Committee	7th May, 2025
		NITTTR Chd	Expert lecture delivered on “Electrical Circuits & Actuators” at the one-week short-term course on ‘Robotics & Automation’	March 17 - 21, 2025
		CGC Landran	Served as Session Chair in the 4th International Conference on Innovation in Computing 2025 (ICIC 2025),	24-25 April, 2025
3	Dr. Anu Singla	EE, NITTTR, Chandigarh	Delivered expert talk on 'Advance Metering Infrastructure' in online FDP on “Smart Grid and Renewable Energy Sources”, held from September 23-27, 2024	September 26th, 2024
		EE, NITTTR, Chandigarh	Delivered expert talk on 'Energy Efficiency in Industries' in short term training programme on "Environment and Energy Management" from 25.11.2024 to 29.11.202	27 November, 2024
		CCET (Diploma Wing), Chandigarh	Delivered expert talk on 'Advance Metering Infrastructure' in short term course on 'Energy Management in Smart Cities', held from 21.04.2025 to 25.04.2025 organized by EE dept., NITTTR Chandigarh	22 April, 2025
		Chitkara University, Rajpura	Delivered expert talk on 'Power System Stability: Harnessing Innovations and Technology for a Sustainable Grid '	5 February, 2025
Mechanical Engineering Department				
1	Dr. Sanjeev Kumar	Maturi Venkata Subba Rao Engineering College, Hyderabad	Expert in NBA team	20 to 22 June, 2025
		Sree Sowdambika College of Engineering, Virudhnagar, Tamil Nadu	Expert in NBA team	11 to 14 May, 2025

		COEP Technological University, Pune	Expert in NBA team	14 to 16, February, 2025
		CVR College of Engineering, Hyderabad	Expert in NBA team	21 to 23, March, 2025
		Nalla Malla Reddy Engineering College, Hyderabad	Expert in NBA team	23 to 25 August, 2024
		IEEE international conference on mechanical engineering and robotics, Barcelona, Spain	Technical session chair at 9th IEEE international conference on mechanical engineering and robotics	15 to 17 January 2025
		Panjab University, Chandigarh	Member of Board of Studies of Mechanical Engineering	July 2024 to June 2025
		IKG Punjab Technical University, Kapurthala	Member of Research Advisory committee	July 2024 to June 2025
	Dr. Sanjeev Kumar	Guru Jambheshwar University of Science and Technology, Hisar	Member of BOSR of Mechanical Engineering	July 2024 to June 2025
	Dr. Alakesh Manna	NITTTR Chandigarh	Expert lecture on ‘Advanced Manufacturing Techniques’ in the STC	04 – 08th August, Lecture on 07.08.2025
		College of Architecture, Chandigarh	Expert lecture on ‘Refrigeration and Air-conditioning’	16.04.2025
		Jadavpur University, Kolkata	Evaluation of PhD thesis titled ‘Analysis and optimisation of performances of electro discharge machining of advanced engineering materials’	2025
		Guru Granth Sahib World University, Punjab	Evaluation of PhD thesis titled ‘Experimental investigation of deep cryogenic treatment on machinability of titanium alloy (Ti-6Al-4V) and AISI-304 alloy in powder mixed electrical discharge machine’	November 2024
		Guru Granth Sahib World University, Punjab	Evaluation of PhD thesis titled ‘Experimental investigation on machinability of Monel-400 and Nimonic alloy on rotary electrical discharge machine’ in Nov 2024.	November 2024
		SLIET, Longowal, Punjab	Nominated External Member of the Senate	2024-2026
		Maharishi Markandeshwar (Deemed to be University), Mullana, Haryana	Member, Board of studies	2024-2026

Metallurgical and Materials Engineering Department				
1	Dr. Vibhor Chaswal	Punjab State Council for Science and Technology	Capstone Project Expert Panel (1) Constitution of the project (2) Evaluation of Proposals	(1) 21 st March, 2025 and (2) 28 th March 2025

Cyber Security Research Centre (CSRC)				
1	Dr. Divya Bansal	NMIMS Chandigarh Campus.	Invited expert ‘How to Identify and Formulate a Research Problem’	10-09-2024
		UPSC, New Delhi	UPSC Interview Panellist	09-09-2024
		Chandigarh University.	Invited expert Topic: Expert talks on job opportunities in Computer Science Engineering and emerging technologies	03-08-2024
		Chandigarh University	Invited Expert ‘Applications of Cloud Computing in real autonomous vehicles and healthcare’	15-07-2024
		RPWTI, Sector-25W, Chandigarh	"Cyber Security in Police Communication" • Topic: Cyber Security Fundamentals • Computer Networks and Communications • Information Security Risks • Computer and Network Security • Encryption and Digital Signatures • Cyber Security Management • Ethical Hacking Case Studies on Cyber Security	5 – 9th August, 2024

3. VISITORS (EXTERNAL EXPERTS/ SPEAKERS UNDER INDUSTRY-INSTITUTE INTERACTION TO THE DEPARTMENT

Chemistry Department				
Sr. No.	Name of Visitor	Designation	Affiliation	Title/Purpose
1.	Dr. Praveen Kumar,	Head, R&D	Exigo Recycling Pvt. Ltd.	E-Waste Management: Resource Management Towards Sustainability
2.	Mr. Om Dubey	Laboratory Incharge	Gravitas Laboratories Pvt. Ltd.	Material Analysis: Scope for Mechanical and Metallurgical Engineering

3.	Dr. Kallolmay Biswas	General Manager of R&D	OAT& IIL India Laboratories Pvt Ltd	Innovative strategies in Agrochemical Development for Sustainable Agriculture
4.	Dr. Vishwajeet Mehandia	Co-founder,	Novagen Alchemica	Interdisciplinary Frontiers in Chemical Engineering: Complex Fluids, Granular Materials and Living systems

Mathematics Department

1	Dr. Diksha Malhotra	Malhotra, AI Solution Architect	Moneygram International Limited	From Data to Intelligence: Exploring the World of AI and Machine Learning
2	Mr. Devashish Kumar	Founder and Director	CodroidHub Private Limited	The Mathematical and Computational Foundations Driving Innovation in
3	Mr. Rochak Chauhan	Sr. Solution Architect	Zeonix Global, Chandigarh.	Emerging Technologies
4	Mr. Gaurav Kumar	Founder Director	Magma Research and Consultancy Services, Ambala	Generative AI in Modern Engineering and Innovations with Ethical Aspects

Computer Science & Engineering Department

1	Ms. Jyotika Garg	Senior Software Engineer	Microsoft India Pvt Ltd.	Emergence and Strategic Integration of AI in Modern Workflows
2	Dr. Aman Kamboj	Senior Manager AI- Computer Vision	Michelin R&D Lab, Pune	Bridging Vision and Language: The future of AI
3	Dr. Shikhar Bhardwaj	Deputy Manager	Dharampal Satyapal Limited	Generative AI use-cases in an FMCG
4	Dr. Aman Kamboj	Senior Manager AI- Computer Vision	Michelin R&D Lab, Pune	Comprehensive guide to Advanced CNNs

Civil Engineering Department

1	Sh. H.S. Sidhu,	Team leader,	L.N. Malviya Infra Projects Pvt. Ltd. Saha Ambala, (Hr)	Title: Construction of National Highway Projects Purpose: Industry Academia Expert Lecture Week
2	Er. Anish Mishra,	Senior Manager,	Hilti, New Delhi	Title: Recent advancements in Civil Engineering Materials and equipment

				Purpose: Industry Academia Expert Lecture Week
3	Sh. U.S. Sahi,	Executive Director,	NHPC Office Complex, NHPC, Faridabad, Haryana	Title: Construction of Dam for Hydro Power Projects Purpose: Industry Academia Expert Lecture Week
4	Er. Pavan Kumar Kohli, Director (Civil), Retd.	Director (Civil) Retd.	Himachal Pradesh State Electricity Board (HPSEBL	Title: Water resources development in India Purpose: Industry Academia Expert Lecture Week
5	Dr. Pawan Kumar,	Associate TCP TCPO,	Ministry of Housing and Urban Affairs, (MoHUA), Govt. of India	Title: Urban Development and Housing Purpose: Industry Academia Expert Lecture Week

Metallurgical and Materials Engineering Department

1	Prof. Amit Rawal	Professor	IIT Delhi	Engineering: A Family of Disordered Fiber Networks via Unified Theory Approach
2	Mr. S.B.S. Jaiswal	General Manager	NALCO	Aluminium Metallurgy: Historical Developments, Industry Practices and Future Trends
3	Mr. Kedar Bhawe	Manager	Tata Steel: Wire Division	Corrosion mechanisms and prevention measures for steel wires
4	Mr. Santosh Gutte	Deputy Manager	Automotive Research Association of India	Latest Developments and Future Directions for Battery Materials Testing
5	Abhishek Chauhan	Director	We Incubate	Entrepreneurship in Metallurgical and Materials Engineering
6	Mr. Manu Goyal	General Manager	Tata Motors	Evolving role of Metallurgical and Materials Engineering in Quality Assurance in OEM Industries
7	Mr. Punya Sheel Sharma	Senior Consultant	Tata Consultancy Services	Pathway to Achieving Innovation, Success and Adaptability
8	Dr. Shyama Ranade	Senior Corrosion Engineer	Allied Engineers	Proactive Approach to Pipeline Asset Integrity (Pipeline Corrosion Oil and Gas Industry)

9	Dr. P.C. Sinha	Vice President (Technical)	Aarti Steel International Ltd.	Quality Control in Steel Making
10	Mr. S. Kiran Kumar	Reduction Heat Manager	Aluminium Bahrain	Challenges in Aluminium Plant Operations
11	Dr. Suresh Ch. Khattoi	Managing Director	MINMET Consultants	Industrial Methods of Sponge Iron Production

Aerospace Engineering Department

1.	Sh. Yogesh Kumar	Former Director, HAL	HAL	Future Technologies in Aeronautics-LCA and Beyond
2	Sh. Jatinder Singh	Commercial Astronaut Candidate	The Spaceflight Institute, Toulouse, France	Overview of Commercial Training, Survival Training & Deep Space Mission (March 19, 2025)

Production and Industrial Engineering Department

1	Mr. Anil Siwach	Ex Design Head	Yatra.com	Future Trends in UX
2	Mr. Sunil Aggarwal	Ex Co- Founder	Mobikwik	Current Areas of Focus for product Design
3	Mr. Barinder singh	AVP	XD Genpact Gurugram	Challenges in Job Opportunities of academic institution for designers
4	Mr. Sanjeev Marjara	CGM	Allenger	Job opportunities for Designer Regional Level
5	Dr. PJ Singh	CMD	Tynor	analysis of the skill gap at the National Level
6	Mr. Amit Pinge	Sr. GM	Sunpharma Ziakpur	Product Process Design
7	Mr. Pawandeep Singh	I.P Attorney	Noida	Patent filling Process Conditioning
8	Mr. Pawan Kumar	Sr. Manager	Caterpillar India Bangalore	Product Development for the global market

Mechanical Engineering Department

1	Mr. Sony Goyal	CEO and Founder	Mission CAT, MyCareer, Prayaas Punjab100	Life at a B-School: The Journey to IIM and Beyond (March 2025)
2	Mr. Ankush Sarkar	Founder and CEO	H2 Power Energy Pvt. Ltd., Sector 62, Noida, UP	Entrepreneurship in Renewables Energy (March 2025)
3	Dr. Ramver	Chief Technical Officer	H2 Power Energy Pvt. Ltd., Sector 62, Noida, UP	Green Hydrogen: Beyond the Hype – Challenges, Realities, and the Road Ahead (March 2025)
4	Mr. Sony Goyal	CEO and Founder	Director MyCareer and Founder, Prayaas (NGO) Punjab100	How to excel in life and career (Sept 2024)
5	Mr. Ankit Dua	Assistant Sales Manager	Mitutoyo Asia Pvt. Ltd. New Delhi	Latest Trends in Metrology (Sept 2024)
6	Mr. Sandeep Kumar Dahiya	Head Projects	Green Hydrogen at ReNew Private Ltd, Gurugram	Green Hydrogen: The Future of Energy (Sept 2024)

4. SHORT TERM COURSES/CONFERENCES/SEMINARS/SYMPOSIA/WORKSHOPS ORGANIZED

Mathematics Department				
Sr. No.	Name of the Faculty/ Department	Name of STC/ Conference /Seminar / Symposium / Workshop Organized	Place	Dates (Date format 2024-25)
1	Asha Gupta	Recent Advances in Mathematics	Punjab Engineering College, Chd	20th Jan, 2025
Physics Department				
1.	Prof. Sandeep Kumar Prof. Sanjeev Kumar Prof. Shobhna Dhiman Dr. Shilpi Chaudhary	Engineered Materials for Sustainable Development-2024	Punjab Engineering College (Deemed to be University), Chandigarh	24th-26th July, 2024
2.	Prof. Sandeep Kumar	Conjugated Nanoparticle Chemistry for Environmental and Biomedical Applications	Panjab University, Chandigarh	28th-30th May, 2025
Computer Science and Engineering Department				
1	Dr. Nitin Kumar and Manish Kumar	Artificial Intelligence and Office Tools	Chandigarh	21st March, 2025
2	Dr. Poonam Saini Dr. Rakesh Kumar	National Seminar and Flying Competition “Drone Verse 2.0”	PEC Chandigarh in collaboration with AeSI	7th March, 2025-8th March, 2025
3	Dr. Poonam Saini Dr. Kanu Goel Dr. Mamta Dr. Satnam Kaur	One Week Short-Term Course on "Advances in Artificial Intelligence and Computing for Robust Engineering Applications	PEC Chandigarh PEC Chandigarh in collaboration with NABI Mohali	8th July, 2024-12th July, 2024
4	Dr. Poonam Saini (Organising Team Member)	International Conference on Engineering Materials for Sustainable Development (EMSD)		24th July, 2024-26th July, 2024

5	Dr. Poonam Saini (Organising Co-Chair)	International Conference on Design and Manufacturing Technologies (ICDMT)	PEC Chandigarh in collaboration with IIT Roorkee and CSIO Chandigarh	8th November, 2024-10th November, 2024
6	Dr. Padmavati	AICTE-ATAL-sponsored Advanced Faculty Development Program (FDP) on Advanced Machine Learning: Diverse Applications from Healthcare to Industry	PEC Chandigarh	3rd February, 2025-15th February, 2025
Civil Engineering Department				
1	S.K Singh (Co-Patron)	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025)	Hotel Novotel, Chandigarh (India)	7-9 Feb, 2025
2	Arshdeep Singh (Jt. Coordinator)	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025)		7-9 Feb, 2025
3	Dr. Har Amrit Singh Sandhu/ Civil Engineering	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025)		7-9 Feb, 2025
4	Dr. B. Adinarayana (Organizing Committee Member)	5th IEEE India Council International Subsections Conference 2024 (INDISCON 2024)	PEC, Chandigarh	22 nd August 2024 – 24 August 2024
5	Prof. Kuldeep Kumar	Advanced Materials for Sustainable Infrastructure	MNNIT, Allahabad and NIT Delhi.	27 th -31 st January, 2025
6	Dr. Mohit Kumar	8th India Water Week-2024	Bharat Mandapam, Pragati Maidan, New Delhi	17 th to 20 th September, 2024
		29th International Conference on Hydraulics,	CWPRS, Pune	18 th to 20 th December, 2024

		Water Resources, River and Coastal Engineering- (HYDRO-29)		
		Frontier Technologies for Weather and Climate-Based Decisions in Agriculture and Allied Sectors	Assam Agricultural University, Jorhat, Assam	13 th to 15 th February, 2025
		The First International Conference on Advances in Water Resources (AWaRe 2025)	MANIT Bhopal	10 th to 12 th June, 2025
		Water Security, Water Quality and Smart Water for Agriculture and Rural Development	NDMC Convention Centre, New Delhi	1 st to 2 nd July, 2025
Aerospace Engineering Department				
1.	Dr. Rakesh Kumar	DRONEVERSE – National Seminar and flying competition	PEC Chandigarh	07-08 March, 2025
2.	Dr. Rakesh Kumar	Dr. Kalpana Chawla Memorial Lecture	PEC Chandigarh	
Production and Industrial Engineering Department				
1	Dr. Mohit Tyagi	Two Weeks Summer Internship Training/Workshop for B. Tech. for GGSIPU	PEC Chandigarh	01-05th July 2024.
		International Conference on Future and Recent Advances in Mechanical Engineering (FRAME-2024)	NIT Kurukshetra, India	15-17th, October 2024
2	Dr. Jimmy Karloopia	International Conference on Design and Manufacturing Technologies (ICDMT-2024)	PEC Chandigarh	08-10th, November 2024

		International Conference on Advanced Materials for Sustainable Future (2025)	Chitkara University, Rajpura	28th-29th, March 2025
3	Prof. R.M. Belokar	International Conference on Design and Manufacturing Technologies—2024	PEC Chandigarh	8th-10th November 2024
Electrical Engineering Department				
1	Dr. Ajay Kumar	2024 IEEE 5th India Council International Subsections Conference (INDISCON)	PEC Chandigarh	22-24 August 2024
Centre of Management and Humanities (CMH)				
1	Mr. Manish Sharma (Corporate Trainer) Mansha Training and Development Consultants, Panchkula, Hry.	Industrial Academia Week	PEC Auditorium	24 th Sept. 2024
2	Dr. Parikshit Bansal (Inventor and thought leader, IP educator (pharma, engg. Life sciences) Bansal IP Associates Ex-Head, IPR and Technology Cell, National Institute of Pharmaceutical Education and Research (NIPER), Mohali	Industrial Academia Week	PEC Auditorium	25 th Sept. 2024
3	Ms. Divya Khanna (English Language Trainer) Genesis Educates, Chandigarh	Industrial Academia Week	PEC Auditorium	26 th Sept. 2024
4	Mr. Shyamanga Barooah (Digital Media Expert) Former Senior	Industrial Academia Week	PEC Auditorium	27 th Sept. 2024

	Assistant Editor at Times Internet Limited, Delhi			
5	Lalit Aditya Kaushal, Training Specialist, Frontinzo Pvt. Ltd. Panchkula	Industrial Academia Week	PEC Auditorium	4 th March, 2025
6	Manjeet Singh Dhillon, Chairman Chandigarh, Institute of Company Secretaries of India, Mohali	Industrial Academia Week	PEC Auditorium	5 th March, 2025
Mechanical Engineering Department				
1.	Dr. Sanjeev Kumar, Dr. P.J. Singh, Dr. Sarbjit Singh, Dr. M.P. Garg, Dr. Kamal Kumar Mechanical Department	International conference on Design and Manufacturing Technologies-2024 (ICDMT-2024)	PEC, Chandigarh.	November 8th-10th, 2024

5. RESEARCH PAPERS / ARTICLES PUBLISHED IN REFEREED JOURNALS

Sr. No.	Name of Author & Co-Author(s)	Title / Year	Complete Reference of Journal (Name/Vol./ Page No./ Publisher /Place/SCI/Scopus/Impact Factor) and ISSN or e-ISSN	
			Vol.	Journal
1	Diksha, Anjali, Anu PrathapM. Udayan, Balwinder Kaur, Anita Gupta, Megha, Veeranna Yempally, Harminder Kaur	Fabrication of post-synthetic modified Fe (III)-based metal organic framework for the electrochemical detection of 4-amino phenol, 2025	23	Environmental Nanotechnology, Monitoring & Management
2	Manpreet Kaur, Kritika Sood, Veeranna Yempally & Harminder Kaur	Cytotoxicity Profile of Schiff Base Organotin(IV) Complexes: Experimental and Theoretical Approach, 2025	51	Journal of Fluorescence
3	Nisha Mittal, Manpreet Kaur, Vinay Singh, Anshika Babbar, Tamanna Dua, Vasundhara Singh	Accelerated depolymerization of rice straw- derived lignin to vanillin and guaiacol using γ -Fe ₂ O ₃ /N, Fe-TiO ₂ as novel photocatalyst under visible light in aqueous media/2024	467	Journal of Photochemistry and Photobiology A: Chemistry (SCI; Impact Factor: 4.7)

4	Vinay Singh, Surbhi Dhukia, Lavanya, Khullar, Swati Sihag, Ramandeep Kaur, Kusum Harjai, Vasundhara Singh	Synthesis and Characterization of Biomass Derived Modified Lignin Based PVA Hydrogel as Drug Delivery System for Ciprofloxacin/2024	10	Chemistry Select (SCI, Impact Factor: 1.9)
5	Anshika Babbar, Gurpreet Singh, Vasundhara Singh, RS Walia	Progress and Recent developments in carbon nanotube (CNT) based composite coatings for tribological and bio-tribological applications/2025	148	Journal of Industrial and Engineering Chemistry (SCI, Impact Factor: 6.0)
6	Anjali Kaul, Anu Prathap M. Udayan, Balwinder Kaur	Rapid and ultrasensitive electrochemical detection of triclosan in toothpaste using α - Fe ₂ O ₃ nanorods/ 2024		International Journal of Environmental Analytical Chemistry (Taylor & Francis, SCI, Impact Factor: 2.3)
7	Akanksha sood, Srishti, Navneet Kaur, Bunty Sharma, Rajeev Kumar, KK Bhaisn, JS Dhau, Ganga Ram Chaudhary	Green and Sustainable Pd-Co Nanoparticle Assisted Electroless Copper-Plated Cotton Fabric for Multifaceted Catalytic and Antimicrobial Applications/2025	508	Journal of Cleaner Production (SCI, Elsevier, Impact factor: 10.0) ISSN: 0959-6526
8	Anuradha, Sunil Kumawat, Manendra S. Chauhan, Tarun Kumar Joshi, Ajay Singh Verma, Gunjan Arora	Investigation of the physical characteristics of Ba ₂ AlXO ₆ (X = V, Nb, Ta) double perovskite oxides for energy conversion applications/2025	44	Materials Today Communications (Elsevier/SCI/IF 4.5) ISSN 2352-4928
9	Naincy Pandit, Rashmi Singh, Tarun Kumar Joshi, Akash Shukla, Peeyush Kumar Kamlesh, Anusha Dubey, Tanuj Kumar, Manendra S. Chauhan & Ajay Singh Verma	Investigation of a potential photovoltaic absorber based on first principles spectroscopic screening of chalcogenide perovskites: CaZrX ₃ (X = S, Se)/2024	24	Journal of Computational Electronics (Springer, SCI/IF 2.2) ISSN 1572-8137

Mathematics Department

1	Arvish Dabra, Rattan Lal and N. Shravan Kumar	Ideals in the dual of introverted subspaces of Psi-pseudomeasures, 2025	48	Bulletin of the Malaysian Mathematical Sciences society
2	Pooja Rani, Sumati Mahajan	Optimizing quadratic programming problems with intuitionistic fuzzy parameters using a neural network	151	Engineering Applications of Artificial Intelligence
3	Shubhpreet Kaur, Sumati Mahajan, Abhishek Chauhan	Modified γ -operator technique for intuitionistic fuzzy multi- objective nonlinear programming problems with application in agriculture	273	Expert Systems with Applications

4	Shubhpreet Kaur, Sumati Mahajan	On a Novel Solution Methodology for Intuitionistic Fuzzy Quadratic Programming Problems with Application in Textile Industry	2025	International Journal of Fuzzy Systems
5	Abhishek Chauhan, Sumati Mahajan	On goal programming approach for interval-valued intuitionistic fuzzy multi-objective transportation problems with an application to tourism industry	2025	Soft Computing
6	Ankit Kumar, Manu Rohilla and Rattan Lal	A note on the Browder's theorem and a Cline's formula for generalized Drazin-g-meromorphic inverses	Vol. 38	Filomat
7	Kamalpreet Kaur, Asha Gupta, Tareq Al-shami, M. Hosny	A new multi-ideal nano-topological model via neighborhoods for diagnosis and cure of dengue		Computational and Applied Mathematics(SCIE) (2024)
8	Kamalpreet Kaur, Asha Gupta	On new forms of bi-ideal nano open sets	pp. 1420 - 1433	TWMS Journal of Applied and Engineering Mathematics,
9	Kushal Singh, Asha Gupta	New Continuity Concepts with Usual, Semi, and Semi- ω -Closure Operators		Journal of Mathematics
10	Monika, Disha Garg Sucheta Dutt, Ranjeet Sehmi	Self dual and MHDR. dual cyclic codes over finite chain rings		Cryptography and Communications
11	Monika, Sucheta Dutt, Ranjeet Sehmi	Reversible cyclic codes over finite chain rings		The Art of Discrete and Applied Mathematics
12	Disha Garg, Sucheta Dutt	Two-dimensional cyclic codes over a finite chain ring		Analele Stiintifice ale Universitatii Ovidius Constanta

Physics Department

1.	A. Pandey, J. Singh, M. Singh, G. Singh, A. S. Parmar, and, S. Chaudhary	Graphene Oxide/ Polylactic Acid Composites with Enhanced Electrical and Mechanical Properties for 3D-printing Materials/ 2025	1329	Journal of Molecular Structure
2.	K. Monga, V. Singh, S. Chaudhary,	Inorganic charge transport layer for efficient Pb-free KSnI ₃ based perovskite solar cells: a theoretical study/2024	99	Physica Scripta
3.	M. Singh, S. Dhiman, S. Chaudhary, V Ghai, H Singh,	Modulation-Assisted Drilling of Inconel-718: Multi-variable Optimization Using Response Surface Method/2024	34	Journal of Materials Engineering and Performance

4.	Mukul Kumar, Shubham Modgil, Arun Kumar Singh, AR James, Sanjeev Kumar	Profound investigation on electrical properties of Ga doped on high TC lead-free BiFeO ₃ -BaTiO ₃ ceramics/2025	100	Physica Scripta
5.	Shubham Modgil, Varun Kamboj, Mukul Kumar, Arun Kumar Singh, Shobhna Dhiman, Gyaneshwar Sharma, OP Thakur, Sanjeev Kumar	Evolution of local heterogeneity towards flat free energy landscape: Optimization of piezoelectric response in PNN-PZ-PT at morphotropic phase boundary/2025	10	Chemical Physics Impact
6.	Varun Kamboj, Mukul Kumar, Shubham Modgil, Arun Kumar Singh, Saroj Bala, Gyaneshwar Sharma, Sanjeev Kumar	Grain morphological engineering for optimization of energy storage in (1-x) (Na _{0.5} Bi _{0.5}) _{0.75} Sr _{0.25} TiO ₃ -xBaTiO ₃ ferroelectric ceramics: A microwave sintering approach/2025	114	Journal of Energy Storage
7.	Raman Duddi, Shobhna Dhiman, Arun Kumar Singh, Navpreet Kamboj, Sanjeev Kumar.	Unravelling the synergistic effect of polypyrrole-Co ₃ O ₄ composite for superior electrochemical performance in Zn-ion capacitors/2025	687	Applied Surface Science
8.	Raman Duddi, Shobhna Dhiman, Arun Kumar Singh, Navpreet Kamboj, Sanjeev Kumar	Hydrothermally synthesised porous NiAl-LDH as an efficient pseudocapacitive material in asymmetric supercapacitors/2025	8	Hybrid Advances
9.	Mukul Kumar, Rahul Goel, Arun Kumar Singh, Gyaneshwar Sharma, AR James, Sanjeev Kumar	Optimization of leakage current response in Mn modified BiFeO ₃ -BaTiO ₃ near morphotropic phase boundary/2025	8	Hybrid Advances
10.	Raman Duddi, Shobhna Dhiman, Arun Kumar Singh, Navpreet Kamboj, Sanjeev Kumar.	Superior cycle stability and enhanced pseudocapacitive performance of NiAl-LDH decorated carbon cloth for supercapacitor application/2025	679	Applied Surface Science
11.	Shubham Modgil, Mehak Aggarwal, Mukul Kumar, Arun Kumar Singh, Shobhna Dhiman, Gyaneshwar Sharma, Sanjeev Kumar	Optimization of pyroelectric figure of merit of PNN-PZ-PT composition at morphotropic phase boundary/2025	329	Materials Chemistry and Physics
12.	Sachin Sharma, Revati Nandan, Pardeep Malhotra, Sanjeev Kumar, Ravi Kumar, NS Negi	Morphotropic phase boundary evolution with synergistic effect of sintering temperature to improve electrocaloric and energy storage performances of lead-free Ba _{0.95} Ca _{0.05} Sn _{0.09} Ti _{0.91} O ₃ (BCST) ceramic/2024	113	Journal of Energy Storage
13.	Rajat Syal, Priyanka Sharma, Rahul Goel, Arun Kumar Singh, OP Thakur,	Modified process engineering at morphotropic phase boundary for enhanced grain size and	35 (30)	Journal of Materials Science: Materials in Electronics

	KK Sharma, Sanjeev Kumar	piezoelectric response in lead free BZT-BCT/2024		
14.	Shivani, Raman Duddi, Arun Kumar Singh, Navpreet Kamboj, Sanjeev Kumar.	Enhancing the performance of Zn-ion capacitors with electrochemically tailored NiCo-LDH@ Co3O4 nanoflakes on Ni foam/2024	91	Journal of Energy Storage
15.	Ripudaman Kaur, Anamika Kumari, Shinjini Paul, Mohd Anas, Bibek Ranjan Satapathy, Sanjeev Kumar, VK Malik, P Mahadevan, DD Sarma, Suvankar Chakraverty	Room-temperature transparent oxide spin electronics: A conducting interface in LaFeO3– SrTiO3 /2024	109	Physical review B
16.	Manjit Singh Jadon, Sandeep Kumar	Fabrication of TiO2 Nanoparticle Coating on Stainless Steel 316L and Its Assessment for Orthopaedic Applications/2024	20	International Journal of Online and Biomedical Engineering, IFEES (IF-1.4) https://doi.org/10.3991/ijoe.v20i10.49177
17.	Prerna Attri, Moondeep Chauhan, Rajender Singh, Sandeep Kumar, Preeti Garg, Dong-Kwon Lim, Ganga Ram Chaudhary	Fabrication of sulfur doped exfoliated gCN photocatalyst for enhanced visible light degradation of pernicious organic pollutants and their photocatalytic antibacterial activity/2024	364	Chemosphere, Elsevier (IF-8.0) https://doi.org/10.1016/j.chemosphere.2024.143178
18.	Anurag Sangwan, Vivek Kumar, Sandeep Kumar & Amit Kumar	Investigation of Charge Carrier Mobility of Tris(8-hydroxyquinolino)aluminum Doped with Substituted Lithium Quinolate Complexes/2024	60	Protection of Metals and Physical Chemistry of Surfaces, Springer (IF-0.8) https://doi.org/10.1134/S2070205124702289
19.	Sonam Kumari, Monika Nehra, Shikha Jain, Aman Kumar, Neeraj Dilbaghi, Giovanna Marrazza, Ganga Ram Chaudhary & Sandeep Kumar	Carbon dots for pathogen detection and imaging: recent breakthroughs and future trends/2024	191	Microchimica Acta, Springer (IF-5.3) https://doi.org/10.1007/s00604-024-06762-x
20.	Sarita Alhan, Monika Nehra, Neeraj Dilbaghi, Sandeep Kumar	Synthesis of ZrO2 and its composite with activated carbon for lead adsorption and antibacterial applications/2024	7	Hybrid advances, Elsevier https://doi.org/10.1016/j.hybadv.2024.100321
21.	Shikha Jain, Monika Nehra, Neeraj Dilbaghi, Ganga Ram Chaudhary, Sandeep Kumar	Detection of Hg ²⁺ Using a Dual-Mode Biosensing Probe Constructed Using Ratiometric Fluorescent Copper Nanoclusters@ Zirconia Metal-Organic Framework/N-Methyl MesoporphyrinIX and Colorimetry G-Quadruplex/Hemin Peroxidase-	5	BME Frontiers, Science Partner Journals (IF-7.7) 10.34133/bmef.0078

		Mimicking G-Quadruplex DNAzyme/2024		
22.	Anurag Sangwan, Vivek Kumar, Neeraj Gupta, Sandeep Kumar & Amit Kumar	Charge transport studies of doped metal quinolates using transient electro luminescence/2024	1	Essential Chem, Taylor & Francis https://doi.org/10.1080/28378083.2024.2427830
23.	Huijie Jiang, Bo Staeglich, Joachim Knoch, Sandeep Kumar, Neeraj Dilbaghi, Akash Deep, Sven Ingebrandt and Vivek Pachauri	Programming layer-by-layer liquid phase epitaxy in microfluidics for realizing two-dimensional metal–organic framework sensor arrays/2024	12	Environmental Science: Nano, RSC (IF-5.1) https://doi.org/10.1039/D4EN00764F
24.	Sonam Kumari, Monika Nehra, Shikha Jain, Annu Sheokand, Neeraj Dilbaghi, Ganga Ram Chaudhary, Ki-Hyun Kim, Sandeep Kumar	Luminescent Cu nanoclusters–encapsulated ZIF-8 as on–off–on fluorescent probe for efficient and selective quantification of E. coli/2024	192	Microchimica Acta, Springer (IF-5.3) https://doi.org/10.1007/s00604-024-06905-0
25.	Jyotsana Mehta, Neeraj Dilbaghi, Akash Deep, Faisal I Hai, Ashraf Aly Hassan, Ajeet Kaushik, Sandeep Kumar	Plastic waste upcycling into carbon nanomaterials in circular economy: synthesis, applications, and environmental aspects/2024	234	Carbon, Elsevier (IF-11.6) https://doi.org/10.1016/j.carbon.2024.119969
26.	Nidhi Sikri, Bunushree Behera, Akshay Kumar, Vanish Kumar, OP Pandey, Jyotsana Mehta, Sandeep Kumar	Recent advancements on 2D nanomaterials as emerging paradigm for the adsorptive removal of microcontaminants/2025	340	Advances in Colloid and Interface Science, Elsevier (IF-19.3) https://doi.org/10.1016/j.cis.2025.103441
27.	Gaurav Bhanjana, Ravinder Lamba, Manjit Singh Jadon, Neeraj Dilbaghi, Sandeep Kumar	Direct Redox Sensing of Caffeine Utilizing Zinc-Doped Tin Oxide Nanoparticles as an Electrocatalyst/2025	6	BME Frontiers, Science Partner Journals (IF-7.7) 10.34133/bmef.0099
28.	Robin Saini, Priyanka Wadhwa, Karuna Jain, Mayank Pathak, Pratap Singh, Rahul Kumar Dhaka, Sandeep Kumar, Manoj Kumar Singh	Enhancement of electrochemical energy storage performance of MOF-5 and Eucalyptus plant bark derived rGO composite/2025	100	Physica Scripta, IOP Science (IF-2.6) https://doi.org/10.1088/1402-4896/adb3d1
29.	Hassan Mohamad Anabtawi, Amir Ikhlaiq, Sandeep Kumar, Safa Rafique, Ashraf Aly Hassan	Addressing Challenges for Eco-Friendly and Sustainable Wastewater Treatment Solutions Using Extremophile Microorganisms/2025	17	Sustainability, MDPI (IF-3.3) https://doi.org/10.3390/su17062339
30.	Ravinder Lamba, Gaurav Bhanjana, Neeraj Dilbaghi, Vivek Gupta, Sandeep Kumar	Quantification of lead through rod-shaped silver-doped zinc oxide nanoparticles using an electrochemical approach/2025	16	Beilstein Journal of Nanotechnology, Beilstein-Institute (IF-2.6) https://doi.org/10.3762/bjnano.16.33
31.	Ravinder Lamba, Gaurav Bhanjana, Neeraj Dilbaghi, Vivek Gupta, Sandeep Kumar	Fabrication and evaluation of nanomaterial based electrochemical sensor for robust detection of lithium/2025	7	Frontiers in Nanotechnology, Frontiers (IF-3.8) https://doi.org/10.3389/fnano.2025.1563705

32.	Simran Makkar, Niket Rana, Nitesh Priyadarshi, Geetika Bajaj, Sandeep Kumar, Nitin Kumar Singhal	Unravelling the therapeutic properties of aptamer-modified exosome nanocomposite/2025	342	Advances in Colloid and Interface Science, Elsevier (IF-19.3) https://doi.org/10.1016/j.cis.2025.103517
33.	Nidhi Sikri, Sandeep Kumar, Bunushree Behera, Jyotsana Mehta	Graphene oxide/layered double hydroxide composite as highly efficient and recyclable adsorbent for removal of ciprofloxacin from aqueous phase/2025	7	Frontiers in Nanotechnology, Frontiers (IF-3.8) https://doi.org/10.3389/fnano.2025.1578620
34.	Archana Negi, Aman Chauhan, Arshia Dogra, Aanchal Thakur, Vandana Sharma, Sandeep Kumar, Ganga Ram Chaudhary	Evolving trends in solvent strategies for preparing semiconducting nanomaterials for multifarious applications/2025	342	Advances in Colloid and Interface Science, Elsevier (IF-19.3) https://doi.org/10.1016/j.cis.2025.103524
35.	Shikha Jain, Neeraj Dilbaghi, Giovanna Marrazza, Ashraf Aly Hassan, Ajeet Kaushik, Ki-Hyun Kim, Sandeep Kumar	Nanoarchitectonics in Colloidal Hydrogels: Design and Applications in the Environmental and Biomedical Fields/2025	342	Advances in Colloid and Interface Science, Elsevier (IF-19.3) https://doi.org/10.1016/j.cis.2025.103529
36.	Nitesh Priyadarshi, Shimayali Kaushal, Priyanka Garg, Poonam Sagar, Ritika Gupta, Jaspreet Kaur, Aman Kumar, Sandeep Kumar, Nitin Kumar Singhal	Advances in photothermal therapy for cancer and bacterial cells ablation using various nanomaterials/2025	342	Advances in Colloid and Interface Science, Elsevier (IF-19.3) https://doi.org/10.1016/j.cis.2025.103541
37.	Anurag Sangwan, Antim, Varsha Yadav, Akshaya K Palai, Vinod Kumar, Jaswant K. Yadav, Sandeep Kumar, Amit Kumar	Solvent-Dependent Optoelectronic Properties and Charge Transport Study of Aluminum Quinoline Complexes/2025	54	Journal of Electronic Materials, Springer (IF-2.5) https://doi.org/10.1007/s11664-025-11970-z
38.	Robin Saini, Priyanka Wadhwa, Mayank Pathak, Pratap Singh, Karuna Jain, Aman Raj Srivastava, Rahul Kumar Dhaka, Sandeep Kumar, Manoj Kumar Singh	Boosting electrochemical performance of FeCu(BDC) bimetallic MOF by incorporating optimized concentrations of MWCNTs for advanced supercapacitor applications/2025	156	Diamond and Related Materials, Elsevier (IF-5.1) https://doi.org/10.1016/j.diamond.2025.112455
39.	Aman Chauhan, Archana Negi, Arshia Dogra, Aanchal Thakur, Sandeep Kumar, Ganga Ram Chaudhary	Recent advancements in the role of biopolymers as photocatalytic materials for waste-water treatment/2025	344	Advances in Colloid and Interface Science, Elsevier (IF-19.3) https://doi.org/10.1016/j.cis.2025.103591
40.	Priyanka Wadhwa, Partap Singh, Robin Singh, Karuna Jain, Neeraj Dilbaghi, Rahul Kumar Dhaka, Neelam S Sangwan, Manoj Kumar Singh, Sandeep Kumar	Binder free Ni-foam bolstered NiCo ₂ S ₄ /NiCo-MOF composite for enhanced supercapacitor applications/2025	7	Frontiers in Nanotechnology, Frontiers (IF-3.8) https://doi.org/10.3389/fnano.2025.1595022
41.	Pradeep Kumar, Anuj Rana, Mansi Sheokand, Suresh Kumar, Kautilya Chaudhary, Urvashi Nandal, Sandeep	Biofortification and growth enhancement of wheat via bacteria-assisted iron and zinc nanoparticles/2025	7	Frontiers in Nanotechnology, Frontiers (IF-3.8) https://doi.org/10.3389/fnano.2025.1595252

	Kumar,Rahul Kumar Dhaka			
42.	Baljinder Kaur, Shakeel Ahmad Khandy, Shobhna Dhiman, Munirah D Albaqami and Kulwinder Kaur	Thermoelectric properties of Sn ₂ SSe via band engineering with Ge alloying/2024	99	Physica Scripta (IF- 2.6) https://dx.doi.org/10.1088/1402-4896/ad6d07
43.	Bindu Rani, Marutheeswaran Srinivasan, Atif Mossad Ali, , Shakeel Ahmad Khandy, Shobhna Dhiman and Kulwinder Kaur	Effect of Pressure on Thermoelectric Performance of Half Heusler Compounds/2024	170	Inorganic Chemistry Communications (IF- 4.4) https://doi.org/10.1016/j.inoch.2024.113243
44.	Baljinder Kaur ,Raveena Gupta, Shobhna Dhiman, Kulwinder Kaur, Chandan Bera	Optimising the thermoelectric properties of SnTe by band engineering/2024	98	Pramana (IF-2.7) https://doi.org/10.1007/s12043-024-02832-0
45	Bindu Rani, Marutheeswaran Srinivasan, Shakeel Ahmad Khandy, Shobhna Dhiman and Kulwinder Kaur	Effect of strain on the stability, electronic structure and thermoelectric characteristics of (PdXSn, X = Zr, Hf) half-Heusler compounds: a first-principles study/2025	7	SN Applied Sciences (IF-3.44) https://doi.org/10.1007/s42452-025-06597-y
Computer Science & Engineering				
1	Vivek Tomar, Nitin Kumar	Single-sample face and ear recognition using virtual sample generation with 2D local patches. (2024)	80	Journal of Supercomputing
2	Vijay M Galshetwar, Poonam Saini, Sachin Chaudhary	Drfnet: dual stream recurrent feature sharing network for video dehazing	15	International Journal of Machine Learning and Cybernetics SPRINGER (SCIE, IF:5.6)
3	Wani, N. A., Kumar, R., Mamta, Bedi, J., & Rida, I.	Explainable AI-driven IoMT fusion: Unravelling techniques, opportunities, and challenges with Explainable AI in healthcare	110	Information Fusion (SCIE, IF: 15.5)
5	Kavita Mitkari, Sanjeev Sofat Manoj Arora, Reet Tiwari	Relationship between the variations in glacier features classified on a large scale with climate variables: a case study of Gangotri Glacier		Environmental Monitoring and Assessment
6	Kaplesh, P., Gupta, A., Bansal, D., Sofat, S., & Mittal, A.	Vision transformer for contactless fingerprint classification.		Multimedia Tools and Applications

7	Kaplesh, P., Gupta, A., Bansal, D., Sofat, S., & Mittal, A.	A systematic review of end-to-end framework for contactless fingerprint recognition: Techniques, challenges, and future directions		Engineering Applications of Artificial Intelligence
8	Deepali, Goel, N. and Khandnor, P.	Advances in AI-based genomic data analysis for cancer survival prediction		Multimedia Tools and Applications
9	Uttam Mittal,Padmavati Khandnor, Manoj Jaiswal, Katinder Kaur, Priyanka Rana, Shiraz Mangat,Harasees Singh, Prakhar Sharma,Balkaran Singh	Classification of mandibular fractures from panoramic radiographs using deep learning		Multimedia Tools and Applications
10	Shilpa Verma, Sandeep Harit & Kundan Munjal	Design and Development of a Scholarly Reciprocal Recommendation System	6839 - 6866	Scientometrics
11	S Bhardwaj, S Harit, S Verma	There is Mathematics for That!: A Formal Verification of Privacy and Simulative Analysis of Consumer-Centric Content Delivery in IoT	1-24	Transactions on Emerging Telecommunications Technologies
Electronics and Communication Engineering				
1	Komal Duhan, Neelam Rup Prakash, Jasbir Kaur, Sameeksha Munjal	Gain Enhanced Miller Compensated Operational Amplifier/2025	59	Semiconductors
2	Komal Duhan, Neelam Rup Prakash, Jasbir Kaur, Sameeksha Munjal	Frequency compensated triplecascode telescopic operational amplifier / 2025	124	Analog Integrated Circuit Signal Processing
3	Munish Malik, Neelam Rup Prakash, Ajay Kumar, Jasbir Kaur	Analyzing the Effectiveness of Various NMOS Layouts for Total Ionizing Dose Hardening In 180nm CMOS / 2025	41	Journal of Electronic Testing
4	Neha Pannu, Neelam Rup Prakash	Modeling and simulation of low power single event upset- resilient SRAM cell / 2025	122	Analog Integrated Circuit Signal Processing
5	Aanchal Gupta, Divya Dhawan, Neena Gupta, Hemani Kaushal	On the Performance of a UAV-based Malaga-distributed FSO/FSO Communication System with NOMA, 2025	54	Vehicular Communications, SCI (IF:5.8)
6	Aanchal Gupta, Divya Dhawan, Neena Gupta, Hemani Kaushal	Investigation of Outage Performance in NOMA-based Dual-hop FSO Communication, 2025	141	Wireless Personal Communications, SCI (IF:1.9)

7	Dr. Rita Mahajan, Sukhreet Kaur And Dr. Deepak Bagai	Exploring Partial Adiabatic Logic Techniques for Low-Power VLSI Circuit Design: A Review /2024	20	Nanotechnology Perceptions
8	Komal Duhan, Neelam Rup Prakash, Jasbir Kaur, Sameeksha Munjal	Cascode subthreshold PTAT source bandgap voltage reference circuit	104	Elsevier
9	Deepa Srivastava, Sudipta Sarkar Pal, Divya Dhawan, Bhargab Das	Quantitative analysis of interferometric interrogation technique used for π FBG sensors	131 Issue : 4	Applied Physics B, SCI (IF:2)
10	Kumar, V., Sharma, D. K., Dasgupta, S., & Datta, A.	Multiscale Modeling of Self-Heating-Induced and Deformation-Accelerated Dielectric Traps Impacting Critical Path of Dielectric Breakdown in 5-nm Stacked Nanosheet FET, 2025	72	IEEE Transactions on Electronic Devices
11	Yadav, A. K., Verma, S., Sigroha, D., Das, G., Sharma, D. K., & Sharma, A.2	Decoupling analysis for different exciting modes in MIMO DRA using absorbing surface wall, 2024	37	International Journal of Communication Systems
12	J. Rai, S. Yadav, P. Ranjan, G. Das	A compact quad element MIMO CPW fed ultra-wideband antenna for future wireless communication using machine learning optimization/ 2024	38	International Journal of Communication System
13	J. Rai, S. Pandey, P. Ranjan, A. Sharma, G. Das	High-Gain Triple-Band T-Shaped Dielectric Resonator Based Hybrid Two-Element MIMO Antenna for 5G New Radio, Wi-Fi 6, V2X, and C-Band Applications With a Machine Learning Approach/ 2024	38	International Journal of Communication System
14	V. Kamboj, M. Kumar, S. Modgil, A. K. Singh, S. Bala, G. Sharma, S. Kumar	Grain morphological engineering for optimization of energy storage in $(1-x)(\text{Na}_{0.5}\text{Bi}_{0.5})_{0.75}\text{Sr}_{0.25}\text{TiO}_3\text{-xBaTiO}_3$ ferroelectric ceramics: A microwave sintering approach, 2025	114	Journal of Energy Storage, Vol. 114, p. 115874, 2025. DOI: 10.1016/j.est.2025.115874
15	R. Duddi, S. Dhiman, A. K. Singh, N. Kamboj, S. Kumar	Unravelling the synergistic effect of polypyrrole-Co ₃ O ₄ composite for superior electrochemical performance in Zn-ion capacitors, 2025	687	Applied Surface Science, Vol. 687, p. 162255, Apr 2025. DOI: 10.1016/j.apsusc.2024.162255
16	R. Duddi, S. Dhiman, A. K. Singh, N. Kamboj, S. Kumar	Hydrothermally synthesised porous NiAl-LDH as an efficient pseudocapacitive material in asymmetric supercapacitors, 2025	8	Hybrid Advances, Vol. 8, p. 100372, Mar 2025. DOI: 10.1016/j.hybadv.2024.100372

17	M. Kumar, R. Goel, A. K. Singh, G. Sharma, AR James, S. Kumar	Optimization of leakage current response in Mn modified BiFeO ₃ –BaTiO ₃ near morphotropic phase boundary, 2025	8	Hybrid Advances, Vol. 8, p. 100360, Mar 2025. DOI: 10.1016/j.hybadv.2024.100360
18	S. Modgil, V. Kamboj, M. Kumar, A. K. Singh, S. Dhiman, G. Sharma, OP Thakur, S. Kumar	Evolution of local heterogeneity towards flat free energy landscape: optimization of piezoelectric response in PNN-PZ-PT at Morphotropic Phase Boundary, 2025	10	Chemical Physics Impact, Vol. 10, p. 100840, Jun 2025. DOI: 10.1016/j.chphi.2025.100840
19	R. Duddi, S. Dhiman, A. K. Singh, N. Kamboj, S. Kumar	Superior cycle stability and enhanced pseudocapacitive performance of NiAl-LDH decorated carbon cloth for supercapacitor application, 2025	679	Applied Surface Science, Vol. 679, p. 161298, Jan 2025. DOI: 10.1016/j.apsusc.2024.161298
20	R. Duddi, Shivani, S. Dhiman, A. K. Singh, N. Kamboj, S. Kumar	Enhanced electrochemical performance of NiMn ₂ O ₄ electrode synthesized via sol–gel technique for supercapacitor applications, 2025	36	J. Mater. Sci.: Materials in Electronics, Vol. 36, p. 39, 2025. DOI: 10.1007/s10854-024-14113-y
21	S. Modgil, M. Aggarwal, M. Kumar, A. K. Singh, S. Dhiman, G. Sharma, S. Kumar	Optimization of pyroelectric figure of merit of PNN-PZ-PT composition at morphotropic phase boundary, 2025	329	Materials Chemistry and Physics, Vol. 329, p. 130058, Jan 2025. DOI: 10.1016/j.matchemphys.2024.130058
22	R. Syal, P. Sharma, R. Goel, A. K. Singh, OP Thakur, K.K. Sharma, S. Kumar	Modified process engineering at morphotropic phase boundary for enhanced grain size and piezoelectric response in lead free BZT-BCT, 2024	35	J. Mater. Sci.: Materials in Electronics, Vol. 35, pp. 1–9, Oct 2024. DOI: 10.1007/s10854-024-13735-6
23	H. Han, B. Zhang, Z. Zhang, Y. Wang, C. Liu, A. K. Singh, A. Song, Y. Li, J. Jin, J. Zhang	Light-Triggered Anti-ambipolar Transistor Based on an In-Plane Lateral Homo Junction, 2024	24	Nano Letters, Vol. 24, pp. 8602–8608, Jul 2024. DOI: 10.1021/acs.nanolett.4c01679
24	S. Garg, P. Jain, S. Garg, B. Sharma, G. Das, N. Sardana, S. Kumar, A. K. Singh	Compact polarization-insensitive microwave metamaterial absorber with hepta-band characteristics, 2024	99	Physica Scripta, Vol. 99, p. 075541, 2024. DOI: 10.1088/1402-4896/ad56de
Civil Engineering				
1	Manan Gupta, Sarita Singla, S.K. Singh	Study and Design of Drainage Structure and its characteristics along N-Choe In Chandigarh Region 2025	16	Int. Journal of Civil Engg. & Tech. (IJCIET)/ ISSN 0976 – 6308
2	Ayushi Randhawa, S.K. Singh, Umesh Sharma	A Review on the Impact of Nanomaterials Modification on the Performance of Asphalt Mixtures 2025	11	International Journal of Environmental Sciences/ Scopus/ ISSN 2229-7359
		-		

3	Chirag Bhasin, Sakshi Sharma, Pardeep Kumar Gupta	Performance Evaluation of Roundabouts under Mixed Traffic Conditions: A Data-Driven Approach 2025	-	Journal of Transportation Engineering, part A: Systems (ASCE) Impact Factor: 2.1 (SCIE)
4.	Gaurav Gupta, Hemant Sood, Pardeep Kumar Gupta	Economic and environmental assessment of industrial wastes stabilized clay and sand soil subgrades using experimental and theoretical approaches 2024	-	Construction and Building Materials(SCIE) Impact Factor 8.0
5	Chirag Bhasin & Pardeep Kumar Gupta	Methodology to counter heterogeneity at urban multilane roundabouts 2024	-	Transportation Research Record Impact Factor 1.8 (SCIE)
6	Chirag Bhasin & Pardeep Kumar Gupta	Comparative Analysis of Entry Capacity Models for Multilane Roundabouts under Mixed Traffic Flow Conditions 2024	-	Transportation Research Record Impact Factor 1.8 (SCIE)
7	Gaurav Gupta, Hemant Sood, Pardeep Kumar Gupta	Economic and Environmental Assessment of RBI Grade 81-Stabilized and Polyester Fibre-Reinforced Soil Subgrades: A Comparative Study of Experimental and Theoretical Approaches 2024	-	Indian Geotechnical Journal Impact Factor 1.4 (ESCI)
8	Dr. Sarita Singla, Vidushi Chadha	A Review on Classification and Effect of Nanoparticles on Workability, Mechanical Properties, Durability, and Microstructure of Cement Composites 2024	-	Iranian Journal of Science and Technology, Transactions of Civil Engineering
9	Dabral, R., Sandhu, H. A. S., Trivedi, M., & Cherubini, C.	Water management using a multi-criterion decision-making approach.2025	878 - 899	Journal of Hydroinformatics
10	Sharma, A., Sandhu, H. A. S., & Cherubini, C.	Enhanced landslide susceptibility zonation using GIS-Based ensemble techniques. 2025	-	Environmental Earth Sciences
11	Sharma, A., & Sandhu, H. A. S.	Effects of Digital Elevation Models on Spatial Characterization of Landslides in the Kalka-Shimla Region of the Indian Himalayas 2025	2177 - 2189	Journal of the Indian Society of Remote Sensing
12	Sandhu, H.A.S., Gusain, H.S., Arora, M. et al	Monitoring of spatio-temporal glacier dynamics in Bhagirathi Basin, Gharhwal Himalayas using remote sensing data 2024	305	Environ Earth Sciences

13	Sharma, A., Sandhu, H.A.S.	Investigating the dynamic nature of landslide susceptibility in the Indian Himalayan region.2024	257	Environ Monitoring & Assessment
14	Sharma, A., Sandhu, H.A.S.	Effects of Digital Elevation Models on Spatial Characterization of Landslides in the Kalka-Shimla Region of the Indian Himalayas 2024	2177 – 2189	J Indian Soc Remote Sens
15	Adinarayana, B., Ayush, Sohal, B.S. et al.	Development of AI model for gender differences in bicycle mobility of green urban areas for recreational and educational institutions of cycling behaviour, patterns and constraints of regular cyclists for Chandigarh city—an Indian perspective.2024	9	Innovative. Infrastructure Solution Springer
16	Badveeti Adinarayana, Nandu, P.P.H., Madhu, B.E., Reddy, K.S.K.K. et al	AI-driven development and utilization of 2024 Noto earthquake seismic data for prediction of earthquake intensity measures for Japan using deep machine learning models 2025	10	Innovative. Infrastructure Solution Springer
17	Lone Rafiya Majeed, Deeplata Sharma, Kuldeep Singh Rautela, Mohit Kumar	Sustainable agriculture, aquaculture, and phytoremediation through freshwater macrophytes: a comprehensive review of mineral uptake, soil health, and water quality dynamics 2025	5	Discover Water DOI: DOI: 10.1007/s43832-024-00188-5
18	Kumar, M., Tiwari, R. K., Kumar, K., Rautela, K.S., Safi, S.	Quantitative Analysis of Hydropower Potential in the Upper Beas Basin using Geographical Information System and MIKE-11 NAM Model 2024	17	Ecohydrology, Willey DOI:https://doi.org/10.2166/aqua.2023.231
19	Kumar, M., Tiwari, R. K., Rautela, K.S. Kumar, K., Khajuria V, Verma, I, Safi, S., Almazroui, M., Kafy, A.A., Zhang, L., and Elh	Comparative Assessment of Process-Based Models for Simulating the Hydrological Response of the Himalayan River Basin 2024	9	Earth Systems and Environment, Springer Nature Switzerland AG 2024

Metallurgical and Materials Engineering

1	Swarnima Singh, A Keshri, S. Mantry	Influence of residual stress on corrosion and mechanical properties of silicon carbide-reinforced nickel-tungsten coatings.	7	Bulletin of Materials Science
2.	Vibhor Chaswal and Arshad Khan	FTIR Study of aqueous solutions of α -amylase: Evidence of C-O-H bond formation at high temperatures	55	Biomedical Journal of Scientific and Technical Research

3	JD Sharma, H Tripathi, N Sharma	Synergistic effects of ZrO ₂ and La ₂ O ₃ on the phase stability and optical-electronic properties of Y ₂ O ₃	22	International Journal of Applied Ceramic Technology
4	Uma Batra, P. Devi, H. Mehta, G. Kaur	Utilization of superhydrophilic metallosurfactant electrocatalyst for enhanced cathodic oxygen reduction reaction in Microbial Fuel Cell	628	Journal of Power Sources
5	Uma Batra, A. Singh, M. Sharma	Corrosion resistant and mechanically robust superhydrophobic coating with self-healing characteristics for biodegradable Mg-Ag-Zn-Ca alloy	147	Journal of Industrial and Engineering Chemistry
6	Swarnima Singh, A.K. Keshri	Improving Corrosion Resistance of Low Carbon Steel through Surface Mechanical Attrition Treatment Duration	34	Journal of Materials Engineering and Performance
7	Suresh Chand, S. Reza, R.M. Prasad, K. Rakha	Effect of Si content on novel medium-Mn complex phase steels	77	Transactions of Indian Institute of Metals
8	Suresh Chand, S. Reza, K. Biswas, R.M. Prasad, K. Rakha	Novel Mn and Si alloyed complex phase steel for automotive applications	916	Materials Science and Engineering
9	Vishvendra Pratap Singh, I.M. Date, J.D. Sharma	A review on waste carbon soot as a functional material for water remediation	22	International Journal of Environmental Science and Technology
10	Gaurav Pal Singh, R. Chatterjee, Summet Kumar Sharma, K. Sahni, Deepika, N. Sardana	Enhancement of solar cell efficiency through laser assisted surface texturing	17	International Journal of Advances in Engineering Sciences and Applied Mathematics
11	Moolchand Sharma, C. Porwal, G. Singh, V.S. Chauhan, R. Vaish	Progress and outlook of ferroelectric/non-ferroelectric polar glass-ceramics for multi-catalytic applications	77	Progress in Solid State Chemistry

Aerospace Engineering				
1.	Sugandh Gupta, Sanjeev Kumar, Rakesh Kumar	Impact of blowing location on the aerodynamic characteristics over the delta wing	74, No.5	Defense Science Journal
2.	Mayank Gupta, Salahudden, Prabhjeet Singh, and Dipak K Giri	Dynamic sliding mode based trajectory tracking control of fully and under-actuated quadrotor with perturbations		Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering
3.	Salahudden, S.	Nonlinear Model Predictive Control for Aircraft Flat-Spin Recovery." Part G: Journal of Aerospace Engineering.		Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering

4.	Salahudden, S.	Decoupled Incremental Nonlinear Dynamic Inversion Control for Aircraft Spin Recovery	61	IEEE Transactions on Aerospace and Electronic Systems
5.	Salahudden, S.	Automated Spin Recovery with Aerodynamic and Load Factor Constraints,	239	Part G: Journal of Aerospace Engineering
Production and Industrial Engineering				
1	Saurabh Bhardwaj, CS Jawalkar, Suman Kant, Viveksheel Rajput	Enhancing Silicon Carbide Powder Mixed Rotary EDM Performance during Monel 400 Machining: Novel Combination, 2025 May	2025	Journal of Materials Engineering and Performance
2	Pankaj, S Kant, CS Jawalkar, SK Khatkar, M Singh	Experimental investigation on mechanical performance and drilling behaviour of hybrid polymer composites through statistical and machine learning approach, 2024	2024	Proceedings of the Ins. of Mech. Engg., Part E: Journal of Process Mech. Eng.,09544089231223022.
3	Paramjit Singh, Ravinderjit Singh Walia, C.S. Jawalkar	The Influence of the Addition of MoS2 Particles on Stir Cast Al-7175/Si3N4-Based Hybrid Composites Mechanical and Physical Properties, 2024	Vol.18, 856-868	International Journal of Metalcasting (Springer)
4	Pankaj, CS Jawalkar, Suman Kant, Sandeep Kumar Khatkar, Rohit Kumar	Natural frequency response simulation and mathematical modelling of nettle fibre-based composites using RSM process	Vol.68	International Journal of Materials and Product Tech. (Inder-science)
5	Milap Sharma, Md Sarfaraz Alam, Yashpal & Suman Kant	Assessing efficacy of proposed safety headwear with an Android app interface in an environmental heat-stress surveillance application, 2025		International Journal of Occupational Safety and Ergonomics
6	Amanurrahman Zubair Ahemad, Satnam Singh Jolly, Parveen Kalra, Shagun Sharma	Biomechanical Comparison of Magnesium Bioresorbable and Titanium Lag Screws for Mandibular Symphysis Fracture Fixation: A Finite Element Analysis, 2025		Journal of Stomatology Oral and Maxillofacial Surgery

7	Madhusudhan Krishnappa, Sunil Gaba, Shagun Sharma, Shubham Sharma, Chirag K Ahuja, Parveen Kalra	Delayed Maxillary Reconstruction with Free Osteocutaneous Fibula Flap Using CAD-CAM Technology, 2025	58 (1)	Indian Journal of Plastic Surgery
8	Shagun Sharma, Mohit Dhiman, Parveen Kalra, Harish Kumar Banga, Manarshhjet Singh	Reverse engineering and CAD/CAM application in the design of maxillofacial prosthesis, 2025	19 (2)	International Journal on Interactive Design and Manufacturing (IJIDeM)
9	Viveksheel Rajput, Mudimallana Goud, NM Suri, Sahil Grover, Sarbjit Singh, Sanjeev Kumar	Investigation on Glass Material's Hole Characteristics Using Different Tool Geometries in Cognitive Electrochemical Discharge Machining Process, 2025		Journal of Materials Engineering and Performance
10	Amarjeet Kumar, Mudimallana Goud, Suman Kant, Viveksheel Rajput	Synergistic modelling for precision in electrochemical discharge mechanism: a triad of 3D finite element, ANN, and regression approaches, 2024	7(4)	Multiscale and Multidisciplinary Modeling, Experiments and Design
11	Prabhat Ranjan, Rajesh Kumar, RS Walia, Vinod Kumar Yadav	Enhancing the durability of cast steel cylinder liners using HVOF sprayed functionally graded coatings, 2025	100 (4)	Physica Scripta
12	Anshika Babbar, Gurpreet Singh, Vasundhara Singh, RS Walia	Progress and recent developments in carbon nanotube (CNT) based composite coatings for tribological and bio-tribological applications, 2025	148	Journal of Industrial and Engineering Chemistry
13	Deepak Kumar, Abdul Khaliq Ansari, Shailesh Kumar Singh, Ravinderjit Singh Walia, Pushpendra Singh, Qasim Murtaza	Investigating the characterization and damping effects in thermally sprayed Al ₂ O ₃ -40% TiO ₂ ceramic coating, 2025		Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering

14	Mayank Singhal, Rajesh Kumar, RS Walia, Sanjay Kumar Pandey	Evaluation of tribological and cooling performance of TiN and DLC-coated pistons for miniature stirling cryocooler, 2024	39 (4)	MAPAN
15	Prabhat Ranjan, Rajesh Kumar, RS Walia, Vinod Kumar Yadav	Experimental and computational investigation of FGM coated cylinder liners prepared using HVOF technique, 2024	99(8)	Physica Scripta
16	Sonia Dangi, Sumit Chaudhary, RS Walia, Jimmy Karloopia, Jitendra Kumar Katiyar	Tribo-corrosion, Mechanical and Morphological Performance of Multilayer Ceramic Deposited on Cast Iron via HVOF Thermal Spray / 2025		Tribology International
17	Jimmy Karloopia, Kunal Chauhan, Pradeep Kumar Jha, Jitendra Kumar Katiyar	Abrasive wear characteristics of in-situ synthesized Al-12% Si/TiB ₂ metal matrix composites under room temperature conditions / 2025		Tribology International
18	Kunal Chauhan, Jimmy Karloopia, RS Walia, Mandeep Dhanda	Recent advances in magnesium alloys and its composites for bioimplant applications: Processing, matrix, reinforcement, and corrosion perspectives / 2025	49	Critical Reviews in Solid State and Materials Sciences
19	Akhil Charak, Jimmy Karloopia, Amit Verma, Ravi Kumar, TS Srivatsan	Emerging and Sustainable Material Technology: The Future of Fire Safety / 2024		Advanced Materials for Emerging Applications
20	Kunal Chauhan, Jimmy Karloopia, RS Walia, TS Srivatsan	Additive Manufacturing of Composite Materials for Use in Biomedical Applications		Advanced Materials for Emerging Applications
21	Kunal Chauhan, Jimmy Karloopia, NM Suri, TS Srivatsan	Recent Advances in Friction Stir Welding of Magnesium Alloys for Use in Performance-Specific Applications / 2024		Advanced Materials for Emerging Applications
22	Atul Pandey , Jasvinder Singh, Malkeet Singh, Gurjeet Singh , Avanish Singh Parmar, Shilpi Chaudhary	Graphene oxide/ polylactic acid composites with enhanced electrical and mechanical properties for 3D-printing materials	1329	Journal of Molecular Structure
23	Debashish Gogoi, Manjesh Kumar, Jasvinder Singh	Enhancing mechanical performance of solvent-cast 3D printed PCL composites: A comprehensive optimization approach	42	Bioprinting

24	Debashish Gogoi, Tanyu Donarld Kongnyui, Manjesh Kumar, Jasvinder Singh	Experimental investigation of PCL-based composite material fabricated using solvent-cast 3D printing process	35	Polymers for Advanced Technologies
25	Gurminder Singh, Jasvinder Singh, N. Singh, Ilenia Farina, Francesco C., P. M. Pandey	Effect of unit cell shape and structure volume fraction on the mechanical and vibration properties of 3D printed lattice structures	37	Journal of Thermoplastic Composite Materials
26	Debashish Gogoi, Manjesh Kumar, Jasvinder Singh	A comprehensive review on hydrogel-based bio-ink development for tissue engineering scaffolds using 3D printing	15	Annals of 3D Printed Medicine
27	Neeraj Kumar, Mohit Tyagi, Anish Sachdeva, Mohit Sharma, P. Chauhan	Exploration and modeling the Sustainable Development Challenges Faced in Improving the Cold Supply Chain Performance. (2025)		International Journal of Services and Operations Management (Inderscience)
28	Somesh Agarwal, Mohit Tyagi, Neeraj Kumar, R K Garg	Integrating Soft Computing Techniques for Optimizing Green Vehicular Communications and Networking in Circular Digital Supply Chain. (2025)		Journal of Science and Tech.Policy Management/ IF 3.9 /Emerald
29	Somesh Agarwal, Mohit Tyagi, R K Garg	Optimizing sustainable supply of essential materials in a circular economy: a CoCoSo-SWARA based approach. (2024)	15(1)	Journal of Remanufacturing./ IF 2.4 /Springer
30	Janpriy Sharma, Mohit Tyagi, Y. Kazancoglu	Impact of Digital Technologies on the Risk Assessment in Food Supply Chain: A Wake Towards Digitalization. (2024)	59(5)	International Journal of Food Science and Tech./ IF 3.3
31	Janpriy Sharma, Mohit Tyagi, Arvind Bhardwaj	Endorsers measurement for decarbonized processed food supply chain through newly befitted interval valued neutrosophic vague sets. (2024)		Annals of Operations Research/ IF 4.8
32	Janpriy Sharma, Shweta Singh, Mohit Tyagi	Avenues of Decarbonisation in the Dynamics of Processed Food Supply Chains: Transition Towards Responsible Production Consumption. (2024)	10(5)	Heliyon/ IF 4.0
33	S Ahluwalia, RO Vaishya, M Tyagi, RS Walia	Drivers and barriers for implementation of green supply chain management: a review		Challenges & Opportunities in Ind. & Mech. Engg.: A Progressive Research Outlook

34	Manoj Kumar, RO Vaishya, NM Suri	Simulation and experimental research of material removal rate in micro-electrochemical discharge machining process	10	Advances in Materials and Processing Tech.
35	G Singh, M Sharma, R Kiran, S Karmakar, R Vaish	Footwear for piezoelectric energy harvesting: A comprehensive review on prototypes development, applications and future prospects	28	Current Opinion in Solid State and Materials Science
36	AK Bisht, RO Vaishya, RS Walia, G Singh	Nitrides ceramic coatings for tribological applications: A journey from binary to high-entropy compositions	50 (6)	Ceramics International
37	A Babbar, G Singh, V Singh, RS Walia	Progress and recent developments in carbon nanotube (CNT) based composite coatings for tribological and bio-tribological applications	77	Journal of Industrial and Engineering Chemistry
38	C Porwal, G Singh, M Sharma, VS Chauhan, R Vaish	Progress and outlook of ferroelectric/non-ferroelectric polar glass-ceramics for multi-catalytic applications	51	Ceramics International
39	S Devi, A Gaur, R Vaish, VS Chauhan, G Singh	Harvesting Friction Energy to Enable Tribocatalytic Dye Degradation using Perovskite CaTiO ₃ Ceramics		Materials Chemistry and Physics
40	Ahemad, A.Z., Jolly, S.S., Kalra, P. and Sharma, S., 2. Verma, S., Kumar, V., Verma, R.K., Subbaiah, N.K., Lal, C., Singh, S.P. and Sharma, S.,	Management of facial asymmetry assisted with digitally designed surgical guide for 3-dimensional maxillary repositioning: A case report. 2025.	23(1)	International Orthodontics,
41	Verma, S., Kumar, V., Verma, R.K., Singh, S.P. and Sharma, S.,	Effectiveness of Mini-screw and Nance palatal arch for anchorage control following segmental maxillary canine retraction in adolescents with angle Class I crowding using 3D digital models: A randomized clinical trial. 2025		Journal of the World Federation of Orthodontists.

Electrical Engineering				
1	Meghraj Morey, Nitin Gupta, Man Mohan Garg, Ajay Kumar and Vijay Kumar Gali	Echo State Network Control Based Power Quality Enhancement in Grid-Interactive Solar Photovoltaic System (24/03/2025)	---	IEEE Transactions on Industry Applications, IEEE
2	Meghraj Morey, Manikanta Golla, Man Mohan Garg, Nitin Gupta, and Ajay Kumar	A high gain Z-source boost DC–DC converter with common ground for solar PV applications (1/7/2024)	232	Electric Power Systems Research, Elsevier
3	Mukur Gupta, Nitin Gupta, Man Mohan Garg, and Ajay Kumar	Robust control strategies applicable to DC–DC converter with reliability assessment: A review	6	Advanced Control for Applications: Engineering and Industrial Systems, Wiley
4	Hemasundar Jakula, Pratyasa Bhui, Animesh Kumar Sahoo, Sagnik Basumallik, and Manohar Singh	Experiences with Controlled Islanding and Relay Coordination on Lalitpur Power System, India		IEEE Transactions on Industry Applications, IEEE
5	Manohar Singh	A guide to protection schemes of synchronous generator-based electric grids	10	e-Prime - Advances in Electrical Engineering, Electronics and Energy
6	Anubhav Kumar Pandey, Vinay Kumar Jadoun, Jayalakshmi N S, and Manohar Singh	Decentralization of renewable energy sources based optimum scheduling and management through a virtual power plant	6	Environmental Research Communications, 2024
7	Kavita Dhami and Tejinder Singh Saggu	THD analysis and its mitigation using DSTATCOM integrated with EV charging station in the distribution network (Sep 2024)	Vol 15, Issue 3	International Journal of Power Electronics and Drive Systems (IJPEDS)
8	Rahul Rana, T.S. Saggu, and Shimi S. L.	V2G Based Bidirectional EV Charger Topologies and Its Control Techniques: A Review (Nov 2024)	6	Discover Applied Sciences

9	Mandeep Singh, Tejinder Singh Saggu, and Arvind Dhingra	Fault Diagnosis of Electric Motors Using Vibration Signal Analysis (June 2025)	14	International Journal of Applied Power Engineering
10	Mohini Gunjal, Lini Mathew, Shimi Sudha Letha, Farhad Ilahi Bakhsh, and Md. Rasidul Islam	Performance Enhancement of Hybrid Energy Storage System for Electric Vehicle Using Intelligent-Based Controller	May, 2025 Accepted	International Journal of Energy Research
11	Rahul Rana, Tejinder Singh Saggu, S.L. Shimi	Integration of Harmonic Aggregation in Grid-Connected Solar PV Systems for EV Charging Applications	27-06-2025	Renewable Energy & Power Quality Journal
12	V. Ravindran, S. S. Letha, S. Rönnerberg, and M.H.J. Bollen.	Time-Domain Aggregation of Interharmonics from Parallel Operation of Multiple Sustainable Sources and Electric Vehicles, 2025	17	Sustainability
13	A. Choudhary, R. Kumar, S. S. Letha, F. I. Bakhsh, A. Singh, and M. J. Khan	Review of recent trends of advancements in multilevel inverter topologies with reduced power switches and control techniques, Oct, 2024		IET Power Electron
14	Soujanya Manda, Ritula Thakur, Shimi Sudha Letha, and Kuldip Singh	Experimental study of power quality in community solar microgrid		Electrical Engineering journal

Mechanical Engineering			
1	Investigating PLGA/HA composite coating for improved corrosion resistance and mechanical integrity of biodegradable Mg alloys, The International Journal of Surface Engineering and Coatings, 2025	Navdeep Singh Grewal, Ahsan Tareen, Kamal Kumar, Neeraj Ahuja	
2	Microstructure refinement and augmenting mechanical properties of Mg alloy using friction stir processing, Journal of Materials Engineering and Performance, 2025	Gaurav Kumar Sharma, Kamal Kumar, Navdeep Singh Grewal	
3	Performance improvement in milk product manufacturing using supply chain strategies—an empirical investigation, International Journal of Productivity and Performance Management, 2025	Prabhjot Singh, Sushant Samir, Kamal Kumar, Jagdeep Singh	
4	Evaluating the bio-functionalities of Ti-6Al-7Nb alloy after surface modification using electrical discharge machining, Engineering Research Express, 2024	Vijender Singh, Puneet Katyal, Kamal Kumar, Neeraj Sharma, Ajay Kumar	
5	Investigating in-vitro degradation, fatigue behavior, and fracture toughness of electrical discharge-processed Mg alloys for biodegradable implant applications, International Journal of Lightweight Materials and Manufacture, 2024	Neeraj Ahuja, Navdeep Singh Grewal, Kamal Kumar, Uma Batra	

6	Influence on microstructural and mechanical properties of Al ₂ O ₃ /Graphite/Flyash-reinforced hybrid composite using scrap aluminum alloy, International Journal of Metal casting, 2024	P Chechi, SK Maurya, R Prasad, A Manna
7	Dynamic rheological behavior and ANN model with Bayesian optimization for elastosil-based magnetorheological elastomers, 2024	Nishant Kumar Dhiman, Sandeep M Salodkar, Gagandeep Sharma, Chander Kant Susheel
8	Numerical investigation of drop spreading on a heated surface, Sustainable Chemistry for Climate Action, 2025	Lokesh Rohilla, Parmod Kumar
9	Impact of a shear thinning droplet on an inclined superhydrophobic surface, International Journal of Multiphase Flow, 2025	Man Mohan Singh Patel, Lokesh Rohilla, Parmod Kumar
10	Vortex bifurcation and air entrainment mitigation using multi-point intakes, Physics of Fluids, 2024	Rahul Kumar Mondal, Lokesh Rohilla, Parmod Kumar
11	Experimental visualization of mass transfer from a slug bubble during co-current flow in a conventional channel, Chemical Engineering Science, 2024	Lokesh Rohilla, Ravi Prakash, Raj Kumar Verma
12	Microstructure and fracture toughness of 850° C quenched and aged Zr-2.5 Nb alloy, Journal of Nuclear Materials, 2024	HK Khandelwal, RN Singh, R Mythili
13	Free surface vortex and associated air entrainment during liquid drainage using two outlets, Experimental Thermal and Fluid Science, 2025	Rahul Kumar Mondal, Lokesh Rohilla, Parmod Kumar
14	Mechanical, tribological, and morphological properties of SiC and Gr reinforced Al-0.7 Fe-0.6 Si-0.375 Cr-0.25 Zn based stir- casted hybrid metal matrix composites for automotive applications: Fabrication and characterizations, Journal of Materials Research and Technology, 2024	HK Garg, S Sharma, R Kumar, A Manna, SP Dwivedi
15	Experimental Analysis of Polishing of Hybrid Aluminium Metal Matrix Composite Reinforced with SiC, ZrO ₂ , and NiTi Particles Using a Developed Rotary Abrasive Float Polishing System, International Journal of Precision Engineering and Manufacturing, 2024	Yes SK Maurya, CK Susheel, A Manna
16	Experimental investigation of wire EDM parameters during machining of fabricated hybrid Al/(SiC+ZrO ₂ +NiTi)-MMC–Advances in Materials and Processing Technologies, 2024	SK Maurya, CK Susheel, A Manna
17	Microstructural, Mechanical and Tribological Behaviour of NiTi/SiC/ZrO ₂ Reinforced Aluminium 6061 Hybrid MMCs, Transactions of the Indian Institute of Metals, 2024	SK Maurya, CK Susheel, A Manna
18	Effect of micro- electrical discharge drilling parameters on machining responses during machining of Al/(SiC/ZrO ₂ / NiTi)-MMC, Journal of Micromanufacturing, 2024 SK Maurya,	CK Susheel, A Manna
19	Effect of chemically treated kenaf fiber on the mechanical, morphological, and microstructural characteristics of PLA-based sustainable bio-composites fabricated via direct injection molding route, Biomass Conversion and Biorefinery, 2024	S Kumar, R Dang, A, Manna, S Sharma, SP Dwivedi, A Kumar
20	Experimental investigation of the effect of micro-arc oxidation coating on Al- 5456 alloy, International Journal of Materials Engineering Innovation, 2025	K Chandel, S Pramanik, SK Maurya, A Manna
21	A Comparative Analysis of Finishing Performance of Abrasive Flow Machining (AFM)	Nitin Dixit, Varun Sharma, Pradeep Kumar

	Variants, Journal of Materials Engineering and Performance, 2025	
22	Utility Study of Biodegradable Porous Zinc Scaffolds Fabricated by Fused Deposition Modeling Based Rapid Tooling Method, Journal of biomedical materials research. Part B, Applied biomaterials, 2025	Abhishek Kansal, Sangita Mahapatra, Akshay Dvivedi, Pradeep Kumar, Mayank Goswami
23	In-vitro degradation, fatigue, and fracture toughness of EDM-processed Mg alloys for biodegradable implants – Int. J. of Lightweight Materials.2024	N Ahuja, NS Grewal, K Kumar, U Batra
24	Microstructure refinement and augmenting mechanical properties of Mg alloy using friction stir processing - Journal of Materials Engineering and Performance, 2024	GK Sharma, K Kumar, NS Grewal
25	Occupational exposure to respirable and diesel particulate matter at a highway toll station in India - International Journal of Environmental Science and ..., 2024	Nazneen, AK Patra, SSR Kolluru, R Dubey, S Kumar
26	Mechanical, tribological, and morphological properties of SiC and Gr reinforced Al-0.7 Fe-0.6 Si-0.375 Cr-0.25 Zn based stir- casted hybrid metal matrix composites for automotive applications: Fabrication and characterizations - Journal of Materials Research and Technology, 2024	HK Garg, S Sharma, R Kumar, A Manna, SP Dwivedi
27	Al ₂ O ₃ /Graphite/Fly ash reinforced hybrid Al alloy composite – Int. J. Metalcasting, 2024,	P Chechi, SK Maurya, R Prasad, A Manna.
28	Experimental investigation of wire EDM parameters during machining of fabricated hybrid Al/(SiC+ ZrO ₂ + NiTi)- MMC - Advances in Materials and Processing Technologies, 2024	SK Maurya, CK Susheel, A Manna
29	Experimental Analysis of Polishing of Hybrid Aluminium Metal Matrix Composite Reinforced with SiC, ZrO ₂ , and NiTi Particles Using a Developed Rotary Abrasive Float Polishing System - International Journal of Precision Engineering and ..., 2024	SK Maurya, CK Susheel, A Manna
30	Microstructural, Mechanical and Tribological Behaviour of NiTi/SiC/ZrO ₂ Reinforced Aluminium 6061 Hybrid MMCs - Transactions of the Indian Institute of Metals, 2024	SK Maurya, CK Susheel, A Manna
31	Multi-objective optimization of rotary assisted electrochemical arc drilling (r-ecad) process using gra-... Journal of Modern Manufacturing Technologies (IJMMT ..., 2024	S Grover, V Rajput, SK Mangal, S Singh, S Kumar
32	An introduction to electrochemical discharge machining (ECDM) process and its research potentials... - Theor Appl Eng Res, 2024	S Grover, V Rajput, V Yadav, SK Mangal, S Singh
33	Explaining the abolition of the wage stop in the UK - Journal of Poverty and Social Justice, 2024	C Grover
34	Experimental investigation of micro- machining of borosilicate glass using an ultrasonic assisted rotary electrochemical discharge machining (UA-	S Grover, SK Mangal, S Singh, M Singh, V Rajput

	RECDM) process... - Journal of Micromechanics and Microengineering, 2024	
35	Performance analysis of solar parabolic trough receiver with twisted perforated conical inserts - Proceedings of the Institution of Mechanical Engineers ..., 2024	S Singh, S Samir, K Kumar
36	Implications of prolonged sub- zero environmental conditioning and temperature cooling on the microstructural morphological, and mechanical properties of SiC reinforced Al6061-T6 friction stir spot welded joints... - Journal of Materials Research and Technology, 2024	N Chaudhary, S Singh, MP Garg, H Kishore, S Sharma
37	Rotary ultrasonic drilling of polyetherimide composite to enhance the surface roughness and MRR: Experimental investigations and statistical approach - Journal of Thermoplastic Composite Materials, 2024	A Sharda, V Gupta, MP Garg
38	Effect of natural Sapindus mukorossi treatment process on bio- waste bagasse fibers for biocomposite fabrication and application purposes - Industrial Crops and Products, 2024	V Yadav, S Singh, MP Garg, S Akhai
39	Modeling and development of eddy current damper for aerospace applications - International Journal of Dynamics and Control, 2024	L Puri, G Sharma, T Kaur
40	Effect of multi-tubes and eccentricity on melting performance of honeybee wax thermal energy storage system: A comprehensive numerical study and experimental validation - M Arıcı - Energy Storage, 2024	S Khajuria, Vikas, H Kumar, A Yadav
41	Magnetorheological Elastomers as the Next- Generation Actuators - Emerging Materials, Technologies, and Solutions for ..., 2024	NK Dhiman, SM Salodkar, G Sharma, C Susheel
42	Advances in Modeling and Control of Magnetorheological Elastomers for Engineering Applications - Archives of Computational Methods in Engineering, 2024	NK Dhiman, SM Salodkar, Gagandeep, C Susheel
43	Dynamic rheological behavior and ANN model with Bayesian Optimization for elastosil- based magnetorheological elastomers - Korea-Australia Rheology Journal, 2024	NK Dhiman, SM Salodkar, G Sharma, CK Susheel
44	Microstructure and fracture toughness of 850° C quenched and aged Zr-2.5 Nb alloy - Journal of Nuclear Materials, 2024	HK Khandelwal, RN Singh, R Mythili
45	Experimental visualization of mass transfer from a slug bubble during co-current flow in a conventional channel - Chemical Engineering Science, 2024	L Rohilla, R Prakash, RK Verma
46	Vortex bifurcation and air entrainment mitigation using multi- point intakes -Physics of Fluids, 2024	RK Mondal, L Rohilla, P Kumar
47	Computational comparison of approaches based on geometrical orientation and gravity components in analysing the melting behaviour of thermal energy storage system - Multiscale and Multidisciplinary Modeling, Experiments 2024	H Kumar , G Singh, A Yadav

Cyber Security Research Centre(CSRC)

1	Pooja Kaplesh Aastha Gupta, Divya Bansal , Sanjeev Sofat, Ajay Mittal	A systematic review of end-to-end framework for contactless fingerprint recognition: Techniques, challenges, and future directions. Engineering Applications of Artificial Intelligence	A systematic review of end-to-end framework for contactless fingerprint recognition: Techniques, challenges, and future directions. Engineering Applications of Artificial Intelligence	110493	150	Engineering Applications of Artificial Intelligence (SCI)	International 15 June 2025
2	Pooja Kaplesh, Aastha Gupta, Divya Bansal, Sanjeev Sofat & Ajay Mittal	Vision transformer for contactless fingerprint classification Multimedia Tools and Applications	Vision transformer for contactless fingerprint classification. Multimedia Tools and Applications	1-21	-	Multimedia Tools and Applications (SCOPUS)	International 07 November 2024

Centre of Management and Humanities(CMH)

1	Piyush Hooda, Anju Singla, Shivani Gupta	Financial capability and financial well-being among small business owners: Does grit moderate the association? (19 June 2025)	ahead-of-print	Vol. 30, Issue 3	Journal of Financial Services Marketing, Springer Nature (ABDC (B), WOS (ESCI), and Scopus)	International
---	--	--	----------------	---------------------	---	---------------

2	Tanvi Gulati, Anju Singla, Poonam Saini	Digital Financial Literacy and Digital Finance Usage: A systematic literature review and bibliometric analysis (25 March, 2025)	4105-4117	Vol. 5 Issue 1	Journal of Informatics Education and Research, (ABDC)	International
3	Prihana Vasishta, Anju Singla	Self-help groups and women empowerment : developing a framework for sustainability of SHGs (25 February, 2025)	ahead-of-print	ahead-of-print	International Journal of Social Economics, Emerald (WoS (ESCI), Scopus and ABDC (B))	International
4	Ritvik Sharma, Prihana Vasishta, Anju Singla	Impact of green banking awareness on green FinTech adoption: a way towards profitable and sustainable practices (20 February, 2024)	377-394	Vol. 51	Managerial Finance, Springer Nature (WoS (ESCI), Scopus and ABDC (B))	International
5	Prihana Vasishta, Ankita Dhiman, Shagun Smith, Anju Singla	How can DeFi improve the quality, affordability, access and usage of financial services?A systematic literature Review (13 February, 2025)	ahead-of-print	ahead-of-print	Journal of Economic and Administrative Sciences, Emerald (WOS (ESCI) and Scopus)	International

6	Ritu Rani, Prihana Vasishta, Anju Singla and Nidhi Tanwar	Mapping ESG and CSR literature: a bibliometric study of research trends and emerging themes (2025)	ahead-of- print	ahead- of- print	International Journal of Law and Management (Scopus, WoS, ABDC) Publisher: Emerald	International
7	Shumank Deep, Sushant Vishnoi, Radhika Malhotra, Smriti Mathur, Hrishikesh Yawale, Amit Kumar, Anju Singla	Influence of augmented reality and virtual reality on real estate investment decisions: understand consumer perspective in Indian AEC industry (4 February, 2025)	1122-1140	Vol. 32 No. 2	Engineering, Construction and Architectural Management, Emerald (WoS (SCIE, SSCI), Scopus and ABDC (A))	International
8	Muskaan Sachdeva, Anju Singla	Influence of Green Risk Attitude on Green Investment: Moderating Role of Financial Anxiety (14 January, 2025)	4148–4159	Vol. 15, Issue 1	European Economic Letters, (ABDC)	International
9	Prihana Vasishta, Anju Singla, Shumank Deep	Unveiling the FinTech revolution: pioneering models and theories shaping FinTech	ahead-of- print	ahead- of- print	Management Review Quarterly, Springer Nature, (WoS(ESCI), Scopus and ABDC (B))	International

		adoption research (22 November, 2024)				
10	Ekamdeep Singh, Prihana Vasishta, Anju Singla	AI-enhanced education: exploring the impact of AI literacy on generation Z's academic performance in Northern India (28 August, 2024)	185-202	Vol. 33, Issue 2	Quality Assurance in Education, Emerald (WOS (ESCI) and Scopus)	International

6. RESEARCH / ARTICLES PUBLISHED IN CONFERENCE PROCEEDINGS

Mathematics Department				
Sr.No.	Name of Author & Co-Author(s)	Title/ Year	Complete reference of Journal (Name/Vol./Page No./Publisher/Place/Scopus/Impact Factor) and ISBN No.	International /National
1.	Kamalpreet Kaur, Asha Gupta	q-rung orthopair neutrosophic fuzzy rough sets with an application based on multi-criteria decision-making	11th International Conference on Soft Computing & Machine Intelligence, Publisher IEEE,2024 , https://doi.org/10.1109/ISCMi63661.2024.10851579 , Electronic ISSN: 2640-0146.	International
Computer Science & Engineering Department				
1	Kaur, P., Kumar, N.	2024	Optimized Biometric Key Management System for Enhanced Security. In: Mahapatra, R.P., Peddoju, S.K., Roy, S., Parwekar, P. (eds) Proceedings of International Conference on Recent Trends in Computing (ICRTC). Lecture Notes in Networks and Systems, vol 954. Springer, Singapore. https://doi.org/10.1007/978-981-97-1724-8_6	International

2	V. Tomar, N. Kumar, M. Deshmukh and M. Singh	2024	Scale-Invariant Feature Transform based Single-Sample Face and Ear Recognition, International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, India, pp. 864-869, doi: 10.1109/ICICAT62666.2024.10923367.	International
3	V. Tomar, N. Kumar, M. Deshmukh and M. Singh	2024	Two-Level Image Augmentation with Deep-Learning for Single Sample Face and Ear Recognition, IEEE Silchar Subsection Conference (SILCON), Agartala, India, 2024, pp. 1-6, doi: 10.1109/SILCON63976.2024.10910296.	International
4	Sushmita Chauhan, Poonam Saini, Sanjeev Sofat	2024	Brain Tissue Segmentation from MRI Scans using Digital Image Processing, 7th International Conference on Recent Trends in Image Processing and Pattern Recognition, Procedia Computer Science, IIT BHOPAL, pp. 32-39, vol. 260, Procedia Computer Science (ELSEVIER, Science Direct), doi:https://doi.org/10.1016/j.procs.2025.03.174	International
5	Shruti Wadhwa, Poonam Saini, Rakesh Kumar, Nishita Singh Kashyap, Tushar Siag	2025	Real Time Object Detection of Aerial Images Using Deep Learning on Jetson Nano, AIAA SCITECH 2025 FORUM, USA, pp1-10, vol. 1431, Session: Autonomous Mission Management Concepts and Technologies I, doi: https://doi.org/10.2514/6.2025-1431	International
Electronics and Communications Engineering Department				
1	Neelam Rup Prakash, Satinder Singh Mohar, Rewant Pahuja, Arpit Singhal, Kriti Jain	Optimizing wireless sensor network coverage: A comparative Analysis of Evolutionary Algorithms, 2025	EAIC-2025/IEEE/Scopus	International
2	Aanchal Gupta, Divya Dhawan, Neena Gupta	Security Outage Performance of an FSO/ RF system employing NOMA	2024 IEEE 5th India Council International Subsections Conference (INDISCON) (pp. 1-5) IEEE, doi: 10.1109/INDISCON62179.2024.10744324	International
3	Paramjit Kaur, Divya Dhawan, Neena Gupta	Enhancing Long-Distance Optical	2024 IEEE 5th India Council International Subsections	International

		Communication: The Superiority of L- Band over C-Band in Soliton-Based WDM Systems	Conference (INDISCON) (pp. 1-6)IEEE, doi: 10.1109/INDISCON62179.2024.10744331	
4	Paramjit Kaur, Divya Dhawan, Neena Gupta	Enhancing Long-Distance Optical Communication: The Superiority of L- Band over C-Band in Soliton-Based WDM Systems	2024 IEEE 5th India Council International Subsections Conference (INDISCON) (pp. 1-6) IEEE, doi: 10.1109/INDISCON62179.2024.10744331	International
5	Paramjit Kaur, Divya Dhawan, Neena Gupta	Enhancing Long-Distance Optical Communication: The Superiority of L- Band over C-Band in Soliton-Based WDM Systems	2024 IEEE 5th India Council International Subsections Conference (INDISCON) (pp. 1-6) IEEE, doi: 10.1109/INDISCON62179.2024.10744331	International
6	Amit Sohal, dr Jasbir Kaur	Efficient RTL to GDS II flow for finite state machine integration. A physical Design approach	2024 IEEE 5th India Council International Subsections Conference (INDISCON)	National
7	Sharma, Deepak K., et al	"Understanding Trap-Induced Barrier Height Fluctuations in Nickel-Silicon Contacts for Advanced Semiconductor Technology	2024 8th IEEE Electron Devices Technology & Manufacturing Conference (EDTM). IEEE, 2024	International
8	Soni, Shakshi, Deepak K. Sharma et al.	Conduction Mechanism in Standard Schottky Barrier Thin Film Transistors and Source Gated Transistors at High Drain Electric Fields	2024 IEEE 5th India Council International Subsections Conference (INDISCON). IEEE, 2024	
7	Akshit Kadiyan, Supriya Garg, Gourab Das, Jaskirat Kaur, Arashpreet Kaur, Deepak Kumar Sharma, Simranjit Singh, Arun Kumar Singh	A Simple Decoupling Mechanism in MIMO Dielectric Resonator Antenna Using Metallic Strips	IEEE INDISCON, PEC Chandigarh, Aug 22-24, 2024.	International
8	Supriya Garg, Sahil Garg, Bhavya Sharma, Gourab Das, Arun Kumar Singh, Prince Jain, Gaurav Mani Khanal	An Ultrathin Compact Octa-band Terahertz Metamaterial Absorber with Polarization-Sensitive Characteristics	IEEE INDISCON, PEC Chandigarh, Aug 22-24, 2024.	International

9	Akshit Kadiyan, Jaskirat Kaur, Anand Sharma, Pinku Ranjan, Arun Kumar Singh, Gourab Das	Decoupling Dynamics in MIMO DRA: The impact of Metallic Sheets on H-Plane & E-Plane Antenna	IEEE MAPCON-2024, Hyderabad, Dec 9-13, 2024.	International
10	Akshit Kadiyan, Jaskirat Kaur, Pinku Ranjan, Arun Kumar Singh, Gourab Das	Design of MIMO DRA with Isolator on Strips and Metallic Rod for Enhanced Performance in Microwave Applications	Indian Engineering Congress, Novotel, Kolkata, December 19-22, 2024.	National
11	Jayant Kumar Rai, Swati Yadav, Pinku Ranjan, Rakesh Chowdhury, and Gourab Das	Design and Analysis of a Six-Port MIMO Dielectric Resonator Antenna for 60/70 GHz Wireless Communication	11th IEEE UP Section International Conference on Electrical Electronics and Computer Engineering (UPCON - 2024), Lucknow, U.P., 29 Nov-1 Dec, 2024.	National
12	Sharad Tiwari, Jaskirat Kaur, et al.	Security Segmentation and Recognition	PiCET 2025- Future Trends in Computing Systems and Innovations in Sustainable Engineering	International

Civil Engineering Department

1	Akshay Kumar, Sahil Kumar, S.K. Singh	The influence of the parameters of tunnel excavation adjacent to the diaphragm wall in saturated soil (2025)	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025), 7-9 Feb, 2025, Hotel Novotel, Chd. (India)	International
2	Rajat Gautam, Kajal Mishra, S.K. Singh	Review on Soil Stabilization Using Jute Fiber (2025)	ASCE Int. Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025), 7-9 Feb, 2025, Hotel Novotel, Chd.	International
3	Kajal Mishra, Rajat Gautam, S.K. Singh	Advancing sustainable pavement material: innovation and implication for modern infrastructure (2025)	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025), 7-9 Feb, 2025, Hotel Novotel, Chd. (India)	International
4	Ayushi Randhawa, Ajay Singh, S.K. Singh	Performance Evaluation of Roller-Compacted Concrete Pavements Containing Recycled Aggregates (2025)	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025), 7-9 Feb, 2025, Hotel Novotel, Chd. (India)	International
5	Ayushi Randhawa, S.K. Singh	Performance Evaluation of Flexible Pavement	Building Urban Infrastructures with Leading Design Innovations	International

		ments Using Nano materials: A Review (2025)	(BUILD2025), May 29-31, 2025, Chandigarh University	
6	Rajat Gautam, Kajal Mishra, S.K. Singh	Optimizing performance of flexible pavements with geogrids using IITPave software (2025)	Building Urban Infrastructures with Leading Design Innovations (BUILD 2025), May 29-31, 2025, Chandigarh University	International
7	Akshay Kumar, S.K. Singh	Effect of tunnel excavation adjacent to diaphragm wall in saturated soil (2024)	Indian Geotechnical Conference (IGC 2024), Dec 19-21, 2024, Aurangabad (Maharashtra)	National
8	Manveer Singh, Arshdeep Singh	Thermo mechanical beneficiation and characterisation of rice husk ash	In: Kolathayar, S., Sreekeshava, K.S., Vinod Chandra Menon, N. (eds) Recent Advances in Building Materials and Technologies. IACESD 2023. Lecture Notes in Civil Engineering, Springer	International
9	Mansimar Singh, Arshdeep Singh	Compressive Strength of mortar made with one-part geopolymeric binder	In: Kolathayar, S., Sreekeshava, K.S., Vinod Chandra Menon, N. (eds) Recent Advances in Building Materials and Technologies. IACESD 2023. Lecture Notes in Civil Engineering, Springer	International
10	Divya Sharma, Ran Bir Singh, Kanish Kapoor, Arshdeep Singh	Development of design mix methodology for normal strength one-part geopolymer concrete	RAID, 2024 NIT Calicut	International
11	Badveeti Adinarayana	Energy Use of Smart Electrical Vehicle Charging Stations, Government EVs Policy, and EVs Battery Management System of Chandigarh: Moving Towards An EV-Powered Future Green City	Sustainable Materials, Environment and Technologies Under Climate Change Scenario	International
12	Badveeti Adinarayana & A., K. C.	Measuring Pedestrian Accessibility Within the University Campus Using Data Science.	First Indian Conference on Disaster Resilient Infrastructure (I-DRI 2024), (https://doi.org/10.5281/zenodo.14235634)	International
13	Arjun Sharma, Somain Sharma and Kuldeep Kumar	A machine learning based model to assess flexural strength of corroded reinforced concrete	doi: 10.1007/978-3-031-39663-2_81	International

		beams. International conference in Federal institute of science and technology(FISAT)		
Aerospace Engineering Department				
1.	Sugandh Gupta, and Rakesh Kumar	Investigation of Variation in the Leading Edge Shapes on the Aerodynamic Characteristics Over a Delta Wing	AIMACE, Amity University	International
2.	Prabhjeet Singh, Salahudden, Rakesh Kumar	Neural Network Based Flight Attitude Control Using Robust Sliding Mode	AIMACE, Amity University	International
3.	Salahudden , Prabhjeet Singh and Rakesh Kumar	Flight Dynamics and Control of Rocket Assisted Quadrotor	AIMACE, Amity University	International
4.	Aryan Chaudhary, Bismanjyot Kaur Bindra, Vedansh Singh, Prabhjeet Singh, and Rakesh Kumar	Experimental design, fabrication and valida- tion of a small- scale liquid bi- propellant rocket engine	AIAA SCITECH FORUM 2025, Florida, USA (January 6-10, 2025)	International
5.	Shruti Wadhwa, Poonam Saini, Rakesh Kumar, Nishita Singh Kashyap and Tushar Siag	Real time object detection of Aerial Image s using deep learning on Jetson Nano	AIAA SCITECH FORUM 2025, Florida, USA (January 6-10, 2025)	International
6	Shruti Wadhwa, Poonam Saini, Rakesh Kumar, Nishita Singh Kashyap and Tushar Siag	Real time object detection of Aerial Image s using deep learnin g on Jetson Nano	AIAA SCITECH FORUM 2025, Florida, USA (January 6-10, 2025)	International
7	Salahudden, Prabheet Singh, Rakesh Kumar and Tushar Siag	Simul taneo us Use of Thrust Vecto ring and Optim ally Defle cted Fin for Aircra ft Spin Recovery'	AIAA SCITECH FORUM 2025, Florida, USA (January 6-10, 2025)	International
8	Konark Arora	A New Approach to Multi grid Technique	Conference Proceedings, Annual AeSI CFD Symposium, 2024, 11-13 August, Birla Institute of Technology, Mesra, Ranchi, 2024.	National
9	Salahudden, S., Kumar, R., and Nishita, K.	Design and Control of	International Conference on Design and Manufacturing Technologies 2024	International

		Unmanned Aerial Vehicle using Dive Maneuver for Stationary Target ..		
10	Salahudden, S., Henil Agrawal, A., Aditya Karnam, A., and Roy, A.,	Flight Dynamics and Control of Tricopter VTOL and Tilt Rotor Transition to Fixed Wing.	AIAA Aviation Forum, Las Vegas, Nevada, United States, 2024	International
11	Das, A., Giri, D. K., Salahudden, S., and Singh, A.,	Robust Adaptive Sliding Mode Attitude Control of Uncooperative Satellites having Unknown Mass Properties.	AIAA Aviation Forum, Las Vegas, Nevada, United States, 2024.	International
12	Singh P., Salahudden, S., and Singh, A.,	Flight Path Angle Control using Backstepping Dynamic Surface for Non-Strict Feedback System.	AIAA Aviation Forum, Las Vegas, Nevada, United States, 2024.	International

Electrical Engineering Department

1	Dhruv Goyal, Rattanleen Kaur, Arnav Sood, Ikshita Sain, Sulata Bhandari, and Ajay Kumar	CFD and Thermal Analysis of Electric Vehicle Battery Pack	2024 IEEE 5th India Council International Subsections Conference (INDISCON)	International
2	Saurabh Ratra and Ajay Kumar	Management of Electric Energy through Demand- Side Resources	2024 IEEE 5th India Council International Subsections Conference (INDISCON)	International
3	Manasi Pattnaik, Ajay Kumar, Nitin Gupta, Meenakshi Awasthi	Performance Enhancement of Grid Integrated Photovoltaic System using Active Current Separation Technique	2024 IEEE 11th Power India International Conference (PIICON)	International
4	Ajay Kumar, Shudhanshu Mishra, S Shiva Kumar	Variable Step- size LMS Filter for Power Quality Enhancement using Grid Supportive Photovoltaic System	2024 IEEE 11th Power India International Conference (PIICON)	International
5	M. Kumari, N. R. Kidwai and Shimi. S.L.	Sustainable Agriculture through	2024 IEEE Second International Conference Computational and	International

		Affordable, Real-Time Crop Health Monitoring, 2024	Characterization Techniques in Engineering & Sciences (IC3TES), Lucknow, India, , pp. 1-7, doi: 10.1109/IC3TES62412.2024.10877669.	
6	Gunjal, M., Mathew, L. & Shimi Sudha Letha	Comparative Study of Electric Vehicles: Regenerative Braking System versus Non-Regenerative Braking Systems	4th International Conference on Innovation Practices in Technology and Management (ICIPTM 2024) IEEE UP section	International
7	Mohini Rambhau Gunjal, Lini Mathew, Shimi	Optimizing Battery Efficiency: Design and Implementation of a Fuzzy Logic based Controller for Hybrid Energy Storage System in Electric Vehicles	5th International Conference on Data Science and Applications (ICDSA 2024) held during 17th to 19th July, 2024 at Malaviya National Institute of Technology Jaipur, India, Scopus (Accepted)	International
8	Chandrakant Singh, Venkata Ratnam Vakacharla, Shimi S. L.	Enhancing Dynamic Load Response in Electric Vehicles: A Hybrid Energy Storage System Combining Battery/ Ultracapacitors	IEEE SeFet 2025 conference, July 9–12, 2025, at MNIT Jaipur, Rajasthan, India. (Accepted)	International
9	Soujanya Manda, Ritula Thakur, Shimi Sudha Letha	Simulation Modelling of Community Based Off- Grid Microgrid	2024 IEEE 4 th International Conference on Sustainable Energy and Future Electric Transportation (SEFET)	International
10	Soujanya Manda, Ritula Thakur, Shimi Sudha Letha	Energy Management and Performance Analysis of Solar Micro grid Using Measured Data	International Conference on Sustainable Smart Computing and Green Energy (ICSSCGE- 2024)	International
11	Anju Bala; Ritula Thakur; Shimi Sudha Letha	Harmonic Distortion Analysis of Electric Vehicle Charging Using Real-Time Data	2024 2nd IEEE International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC), Ghaziabad, India, 21-23 November 2024	International
12	Chailsy Sharma, Sulata Bhandari, Shimi S.L, Rahul Chaudhary and Tilak Thakur	Direct Coupled Tri- Hybrid PEMFC Architecture for Electric Vehicles: Optimizing Efficiency, Stability, and Cost in Urban Driving Cycle	2nd International Conference on Sustainable Power and Energy Research (ICSPER 2025) (Accepted)	International

Mechanical Engineering Department		
1	Numerical modelling of sandwich beam structure with MRE core	Sumit Bajaj, Chanderkant Susheel, Sandeep Salodkar Materials Today:Proceedings, 2024
2	Use of Multi-pass FSP treatment for improving mechanical properties and corrosion resistance of Mg- 2Zn-HA composite - 21 st International Conference on Manufacturing Research (ICMR2024), Glasgow, UK	Gaurav Kumar Sharma, Navdeep Singh Grewal, Kamal Kumar
3	Influence of surface coatings on degradation behavior of Mg alloy bone scaffolds Int.conference on engineered materials for sustainable development (EMSD-2024)	Kamal KumarArihan Jain, Kshitiz Sharma, gursharan Kaur
4	Investigation of Friction Stir Processing for defect free microstructural refinement of Magnesium alloy, Proceedings of the International Conference on Advancements in Materials, Design and Manufacturing for Sustainable Development, ICAMDMS 2024, 23-24 February 2024, Coimbatore, Tamil Nadu, - ICAMDMS 2024	India Gaurav Kumar Sharma, Kamal Kumar, Navneet Thakur
5	Experimental Interfacial Reconstruction and Mass Transfer Modelling of a Slug Bubble During Co-Current Flow in a Millimetric Tube, Conference on Fluid Mechanics and Fluid Power	Arup Kumar Das Lokesh Rohilla, Ravi Prakash, Raj Kumar Verma
6	Fabrication of Open Porous Magnesium Scaffold Using Rapid Tooling Method for Orthopedic Applications - TMS Annual Meeting & Exhibition	Abhishek Kansal, Akshay Dvivedi, Pradeep Kumar
7	Smart Waste Collection System with an Integrated Segregation Mechanism - International Conference on Design and Manufacturing Technologies (ICDMT), Punjab Engineering College (Deemed to be University), Chandigarh, November 8-10, 2024.	Ashish Kumar, Kapil Meena, Tushar Meena, Tashi Dandup Negi, and Nitin Dixit
8	Design and Implementation of a Hand Gesture-Based Interface for Wheelchair Control - International Conference on Design and Manufacturing Technologies (ICDMT), Punjab Engineering College, Chandigarh, November 8-10, 2024.	Devanshu Chaudhary, Bhargav Aggarwal, Yatharth, Agrim Gupta, and Nitin Dixit
9	Performance analysis of xanthan gum-based	Nitin Dixit, Varun Sharma, and Pradeep Kumar

	abrasive media for the finishing of FDM printed parts using AFM - 5 th International Conference on Recent Advances in Mechanical Infrastructure (ICRAM), IITRAM Ahmedabad, January 10-12, 2025	
10	Analysis of Vertical Axis Wind Turbine Designs using Computational Fluid Dynamics - 2 nd International Conference on Product Design (ICPOD- 2025), Lovely Professional University, Jalandhar, April 10-11, 2025.	Yakshit Verma, Khushi Yadav, Abhishek Ranga, Sushant Samir, and Nitin Dixit
11	Determining optimal porosity and pore size of Mg-based biodegradable bone scaffolds	Kamal Kumar Arihan Jain, Kshitiz Sharma, Gursharan Kaur
12	Investigation of Friction Stir Processing for defect free microstructural refinement of Magnesium alloy- Proceedings of the International Conference on ..., 2024	GK Sharma, K Kumar, N Thakur
13	Influence of surface coatings on degradation behavior of Mg alloy bone scaffolds	Kamal Kumar Arihan Jain, Kshitiz Sharma, Gursharan Kaur
14	Experimental and numerical study of air-entrained patterns in liquid extraction using two outlets- Proceedings of the 27 th National and 5 th International ..., 2024	RK Mondal, K Thakur, L Rohilla, P Kumar
15	Numerical modelling of sandwich beam structure with MRE core - Materials Today:Proceedings, 2024	S Bajaj, C Susheel, S Salodkar

Production and Industrial Engineering Department

1	Mohit Sharma, Mohit Tyagi, R S Walia	Success Factors Filtration for Realizing the Sustai-nable Notio ns for Improving the Performance of Circular Supply Chain (2025)	AIPCP25-CF- FRAME24-00006. (AIP-Scopus) Taylor & Francis Group	International
2	Shagun Smith, Mohit Tyagi, Anju Singla, R S Walia	An Exploration of Financial Challenges in Adoption of Circular Supply Chain Operations in Indian Manufacturing Sector (2025)	AIPCP25-CF- FRAME24-00006. (AIP-Scopus) Taylor & Francis Group	International
3	Ritu Beniwal, Nidhi	Impac t of Digita l	AIPCP25-CF- FRAME24-00006. (AIP-	International

	Tanwar, Mohit Tyagi, Anju Singla	Disruption: Transforming Supply Chain for the Future(2025)	Scopus) Taylor & Francis Group	
4	Aradhya, Japneet Pathania, Mohit Tyagi, R S Walia, Nidhi Tanwar Deepak Kr.	An Analysis of Barriers to Circular Economy Implementation in Indian Textile Industry: A Fuzzy DEMATEL Approach (2025)	AIPCP25-CF- ICOTET2024-00116. (AIP-Scopus)	International
5	Simranjot Kaur, Mohit Tyagi, R S Walia, Shilpi Ahluwalia, Suman Kant	Exploration of Challenges Faced in the Packaged Foods Supply Chain Using Fuzzy DEMATEL Approach (2025)	AIPCP25-CF- ICOTET2024-00116. (AIP-Scopus)	International
Centre of Management and Humaities (CMH)				
1	Piyush Hooda, Anju Singla	Enhancing Financial Well- being of Gig Workers through Digital Finan ce (2025)	22nd AIMS International Conference on Management, pp 618 - 629, AIMS International, Indian Institute of Management, Kozhikode, Kerala, India, DOI- 10.26573/2025.22.1.8, ISBN 978- 1-943295-24-1	International

7. ARTICLES/CHAPTERS PUBLISHED IN BOOKS

Chemistry Department				
Sr. No.	Name of Author & Co- Author(s)	Title of Book Chapter, Chapter No., ISBN, and Page No.	Year	Publisher / Place
1	Ishika Aggarwal, Rohit Babu Aniyery, Anita Gupta, Harminder Kaur,Megha,Diksha, Sreeyuktha Sudheer	Anticancer and Antimicrobial Studies of Dibutyl(hexade anoyloxy)stannl Hexadecanoate	2024	Springer nature
Mathematics Department				
1	Kamalpreet Kaur, Asha Gupta	“Generalized Fuzzy, Intuitionistic Neutrosophic Rough Sets” in Book “Intelligent computational Techniques:Mathematics, Health Sciences, & Humanities”	Publis hed on 6.3. 2025	Ane Books Pvt. Ltd. Darya Ganj, New Delhi-110 002 India

Physics Department				
1	Taneja, H., Singh, M., Parmar, A.S., Chaudhary, S.	3D Printing in Diabetes Care: Innovations in Treatment, Monitoring, and Wound Healing, Chapter 13. 2025 Online ISBN978-3-031-90807-1	2025	Springer
2	Sonam Kumari, Neeraj Dilbaghi, G R Chaudhary, Sandeep Kumar	Nanomaterial-Based Platforms for Efficient Water Management, Biotechnology Innovations for a Sustainable Future ISBN 978-981-97-9858-2	2025	Springer
Electronics and Communication Engineering Department				
1.	Bhanu Devi, Jaskirat Kaur and Deepak Kumar Sharma,	Preliminary Study of Retinal Biomarkers Detection on Fundus Images for the Diagnosis of Alzheimer's and Parkinson's Disease, Data-Driven Diagnostics and Disease Prediction with AI Optimization	2025	Elsevier
Computer Science & Engineering Department				
1	Nitigya Sambyal, Poonam Saini, Rupali Syal	A Survey of Machine Learning and Deep Learning Based Techniques for Diabetic Retinopathy Screening Book -Handbook of AI-Based Models in Healthcare and Medicine 1st edition pp. 110-132	2024	CRC Press
2	Amandeep Kaur, Manish Kumar, Rajesh Kumar Bhatia	Kaur, A., Kumar, M., & Bhatia, R. K. (2023). Intelligent Digital Monitoring of the Levels of Stress. In Computational Methods in Psychiatry (pp. 105-125). Singapore: Springer Nature Singapore.	2023	Springer
3	Manish Kumar, Vaibhav Ingale, AmandeepKaur, Rajesh Kumar Bhatia	Kumar, M., Ingale, V. S., Kaur, A., & Bhatia, K. (2023). Consequences of Brain Health in the Digital Era. In Computational Methods in Psychiatry (pp. 127-149). Singapore: Springer Nature Singapore.	2023	Springer
4	Shilpa Verma, Rajesh Bhatia, Sandeep Harit	Developing a Content-based Recommender System for Author Specialization using Topic Modelling and Ranking Framework, Artificial Intelligence and Data Science in Recommendation System: Current Trends, Technologies and	2023	Bentham

		Applications, 1: 110, Bentham Science Publisher		
5	Shilpa Verma, Sandeep Harit, Rajesh Bhatia	S Verma, S Harit, R Bhatia, 2024. "Recommending Future Collaborations Using Feature Selection Technique for Scholarly Network". Computer Science Engineering and Emerging Technologies: Proceedings of ICCS 2022, 437, CRC Press. DOI:10.1002/meet.2011.14504801025	2024	CRC Press
6	A Singh, A Singhrova, R Bhatia, D Rattan	A Singh, A Singhrova, R Bhatia, D Rattan, 2023. "A systematic literature review on test Case prioritization techniques". Agile Software Development: Trends, Challenges and Applications, 101-159, John Wiley & Sons, Inc. https://doi.org/10.1002/9781119896838.ch7 .	2023	John Wiley &
7	Kaur K, Khandnor P, Khosla A	Classification of Meditation Expertise from EEG Signals Using Shallow Neural Networks. 2023 Book Chapter in Communications in Computer and Information Science (CCIS, volume 2003)	2023	Springer
8	Kaur M, Khandnor P	Performance Comparison of YOLO Variants for Object Detection in Drone-Based Imagery. Book Chapter in Springer Proceedings in Mathematics & Statistics (PROMS, volume 401)	2023	Springer

Civil Engineering Department

1	Ran Bir Singh, Arshdeep Singh, Kanish Kapoo	Self compacting recycled aggregate concrete: future scope and challenges in Recent Developments and Innovations in the Sustainable Production of Concrete, Woodhead Publishing Series in Civil and Structural Engineering, Elsevier	2025	Elsevier
2	Sharma, A., & Sandhu, H. A. S.	Landslide Susceptibility Analysis for Sustainable Development in the Indian Himalayas. <i>Sustainable Development Using Geospatial Techniques</i> , 129-154	2024	Wiley
3	Bhardwaj, V., Sandhu, H. A. S.,	Enhancing Water Quality Monitoring through Integrated	2025	Taylor & Francis Group

	Sharma, A., Bhadoriya, S., Sonkar, V.	Ground-Based Observations and Remote Sensing		
4	Badveeti Adinarayana	Role of Sustainable Energy Management of Electric Vehicles (EVs) for Sustainable Urban Mobility Future Planning and Management of Indian Cities	2024	Gyan Kosh, Publisher
5	R. M. Reddy, A. Suresh, Kuldeep Kumar et.al.	Emerging Green Technologies for Waste Management”, Sustainable Landscape Planning and Natural Resources Management,	2025	Springer (Book Chapter).
6	S.J.M. Alrawashdeh, Kuldeep Kumar et.al.	Circular economy – Innovative Strategies and sustainable solutions” Sustainable Landscape Planning and Natural Resources Management)	2025	Springer (Book Chapter
Production and Industrial Engineering				
1	Mohit Sharma, Mohit Tyagi, R S Walia	Assessment of Digital Practices for Enhancing the Sustainability of Humanized Supply Chains Using f- DEMATEL Approach. (Accepted)	2024	Humanizing Circular Supply Chain Management. Springer Publications, Singapore
2	Mohit Sharma, Mohit Tyagi, R S Walia, Yatika Gori, Ashwani Kumar, Yogesh Kumar Singla	Measurement of AI-Based Drivers of Smart Supply Chain Toward Sustainability in the Era of Industry 5.0. ISBN: 978-3-031-91499-7	2025	Digital Manufacturing in Industry 5.0, Springer Publications, Singapore.
3	Ritu Rani, Nidhi Tanwar, Mohit Tyagi, Naveen Kumar, Ashwani Kumar, Yogesh Kumar Singla	Blockchain and the Green Frontier: A Bibliometric and Systematic Review of Supply Chain Sustainability. ISBN: 978-3-031- 91499-7.	2025	Digital Manufacturing in Industry 5.0, Springer Publications, Singapore
4	Pias K. Biswas, Yogesh K. Singla, Pritom K. Biswas, Yatika Gori, Mohit Tyagi, A. Kumar	Shaping the Future: A Global Perspective on Digital Manufacturing in Industry ISBN: 978-3-031-91499-75.0.	2025	Digital Manufacturing in Industry 5.0, Springer Publications, Singapore
5	Neha S. Raghuvanshi, A. Kumar, Pias K. Biswas, Naveen Kumar, Mohit Tyagi, Yogesh K. Singla	IoT Driven Solutions for SmartFarming and Business Optimization in Industry 5.0.ISBN: 978-3-031-91499-7	2025	Digital Manufacturing in Industry 5.0, Springer Publications, Singapore.
6	Naveen Kumar, Mohit Tyagi, Rakesh Joshi, Yatika Gori,	Smart Factories and Cyber Physical Systems. ISBN: 978-3-031-91499-7	2025	Digital Manufacturing in Industry 5.0, Springer Publications, Singapore.

	Ashwani Kumar, Yogesh K. Singla			
7	Shivanjali Saxena, Rakesh Joshi, Naveen Kumar, Mohit Tyagi, Yatika Gori, Neha S. Raghuvanshi	The Power of Smart Sensors: A Technological Revolution. ISBN: 978-3-031-91499-7.	2025	Digital Manufacturing in Industry 5.0, Springer Publications, Singapore.
8	Shagun Smith, Mohit Tyagi, Anju Singla, R S Walia	An Analysis of Working Capital Financing Solutions for Smart Supply Chain Systems. ISBN: 978- 981-96-7658-3, 638434_1.	2025	Advances in Materials and Manufacturing. Springer Publications, Singapore
9	Parth Jain, Alisha, Mohit Tyagi, R S Walia, Nidhi Tanwar	Leveraging renewal energy for optimized carbon capture: A technical and economical assessment. (Accepted)	2025	
10	Jasvinder Singh, Pulak Mohan Pandey	Machine learning for materials developments in metals additive manufacturing." In Machine Learning for Powder-Based Metal Additive Manufacturing, pp. 43-75.,	2024	Elsevier
11	Debashish Gogoi, Tanyu Donarld Kongnyui, Manjesh Kumar, Jasvinder Singh	Multimaterial 3D Printing of Metamaterials: Design, Properties, Applications, and Advancement." In Additive Manufacturing for Advance Applications, pp. 172-207.	2024	CRC Press
12	Mayank Srivastava, Jasvinder Singh, Girish C Verma, Iti Dikshit, Gurminder Singh, Ravinder Pal Singh	"Metal matrix composites: traditional and unconventional sustainable machining techniques." Green Compos. Manuf. A Sustain. Approach 19 p: 257.	2024	Walter de Gruyter GmbH & Co KG
13	Debashish Gogoi, Manjesh Kumar, Mayank Srivastava, Iti Dikshit, Jasvinder Singh	A review of different types of sustainable methods for composites	2024	Walter de Gruyter GmbH & Co KG

Electrical Engineering

1	B. Reji, Anu Singla	Smart Electric and Hybrid Vehicle's Role Toward Economic and Environmental Aspects, Chapter No. 7, Print ISBN:9781394225019; Online ISBN:9781394225040, Page no. 177-198	2024	Wiley
---	---------------------------	---	------	-------

2	Rahul Ranaa, Tejinder Singh Saggu, Shimi S.L	Development of Electric Vehicles in Smart Grid Concepts, Chapter 2, EV Architecture, Components, and Technological Options, 1st Edition	2025	ELSEVIER
3	Mohini Gunjal, Lini Mathew, and S. L. Shimi	Optimizing Battery Efficiency: Design and Implementation of a Fuzzy Logic Based Controller for Hybrid Energy Storage System in Electric Vehicles, Data Science and Applications, Lecture Notes in Networks and Systems 1237	2025	Springer Nature Singapore Pte Ltd.
4	Ankit Kumar Sharma, Shimi Sudha Letha, Poonam Syal, Sarita Rathee and Ajay Kumar	State Estimation and Cell Balancing for Lithium-ion Batteries Powering Electric Vehicles, Chapter No. 1, Print ISBN:9781394225019; Online ISBN:9781394225040 , Page no. 177-198	2025	Wiley
5	S. L. Shimi, Roger Alves De Oliceria, Ajay Kumar and Praveen Kumar	Impact Due to Vehicle-to Grid and Solar Photovoltaic Integration with the Grid	2025	Wiley
Computer Science and Engineering Department				
1.	Nitigya Sambyal, Poonam Saini, Rupali Syal	A Survey of Machine Learning- and Deep Learning-Based Techniques for Diabetic Retinopathy Screening, pp. 1-23, eBook ISBN: 9781003363361	2024	CRC Press, T&F

8. BOOKS PUBLISHED AS AUTHOR/CO-AUTHOR OR EDITOR/CO-EDITOR

Production & Industrial Engineering Department				
Sr. No.	Name of Author/Editor or co-Author(s) /co-Editor	Title of Book, ISBN	Year	Publisher / Place
1	TS Srivatsan, Jimmy Karloopia, Manoj Gupta, A Nagesha, AK Bind, A Sarkar, A Prajapati	Emerging and Sustainable Material Tech.: The Future of Fire Safety, 9789815196771	2024	Bentham Science Publishers

Civil Engineering Department				
1	Disha Thakur, Sanjay Kumar, Sandhu, H. A. S, Chander Prakash	Sustainable Development Using Geospatial Techniques. 129-154	2024	Wiley
Electrical Engineering Department				
1	Supriya Jaiswal, Ajay Kumar, and Sanjeev kumar Padmanabam	Development of Electric Vehicles in Smart Grid Concepts	2025	Elsevier
2	Ajay Kumar, Parveen Kumar, Shimi Sudha Letha, Mohd Tariq, and Arif I.Sarwat	Smart Electric and Hybrid Vehicles: Advancements in Materials, Design, Technology, and Modeling	2025	Wiley
Mechanical Engineering Department				
1	Dr. Alakesh Manna	A Textbook of Manufacturing Science and Technology, ISBN 978-93-55783-31-8	2025	APEERUPA EDUCATION

9. PARTICIPATION OF FACULTY IN SHORT-TERM COURSES/ WORKSHOPS/ CONFERENCE/SEMINARS/SYMPOSIA

Chemistry Department				
Sr. No.	Name of Faculty	Name of Short-Term Courses/Workshops/ Conferences/Seminars/ Symposia	Place	Date
1.	Dr. Harminder Kaur	AICTE recognized ATAL Academy Faculty Development Programme on “Elevating Teaching and Research through Artificial Intelligence (AI) and Innovative Pedagogies	SVKMS NMIMS (Deemed to be University), Chandigarh	9 th September, 2024 to 14 th September, 2024
2.	Dr. Navneet Kaur	AICTE recognized ATAL Academy Faculty Development Programme on “Elevating Teaching and Research through Artificial Intelligence (AI) and Innovative Pedagogies	SVKMS NMIMS (Deemed to be University), Chandigarh	9 th September, 2024 to 14 th September, 2024
3.	Prof. Vasundhara Singh	Delivered talk at “International Conference on Smart Materials for Sustainable Technology (SMST-2024)”	INST, Mohali	24 th October, 2024 to 27 th October, 2024
4.	Dr. Navneet Kaur	Delivered talk at “International Conference on Smart Materials for Sustainable Technology (SMST-2024)”	INST, Mohali	24 th October, 2024 to 27 th October, 2024
5.	Dr. Balwinder Kaur	Delivered talk at “International Conference on Smart Materials for Sustainable Technology (SMST-2024)”	INST, Mohali	24 th October, 2024 to 27 th October, 2024
6.	Dr. Balwinder Kaur	Recent Advances in Polymer Science: Synthesis, Processing and Applications (POLYMER-2024)	Mahatma Gandhi University, Kottayam	1 st December, 2024-4 th December, 2024
7.	Dr. Navneet Kaur	Delivered Oral Talk at National Conference on Indigenous Technologies for Viksit Bharat (17 th CHASCON-2024)	Panjab University, Chandigarh	6 th November, 2024-8 th November, 2024
8.	Dr. Balwinder	Polymers, Composites, Nanocomposites &	Online organized by Mahatma Gandhi	8 th November, 2024-10 th November, 2024

	Kaur	Biocomposites" (ICPCNB-2024) from	University, Kottayam, Kerala	
9.	Dr. Balwinder Kaur	AICTE Training and Learning (ATAL) Academy Sponsored Online Faculty Development Program on Smart Manufacturing Technologies aligned with Industry 4.0.	PEC Chandigarh	6 th -11 th January 2025
10.	Dr. Navneet Kaur	Delivered lecture in National Workshop on Analytical Instrumentation from January 20-25, 2025.	SAIF/CIL, Panjab University Chandigarh	24 th January, 2025
11.	Prof. Vasundhara Singh	Attended “24 th NOST Organic Chemistry Conference”	Agra	3 rd March, 2025 to 6 th March, 2025
12.	Dr. Navneet Kaur	Attended Faculty Development Programme on “Entrepreneurship and New Venture creation/ Entrepreneurship Development” by Wadhwani Foundation	PEC Chandigarh	2 nd June 2025 to 6 th June 2025
13.	Dr. Balwinder Kaur	Attended Faculty Development Programme on “Entrepreneurship and New Venture creation/ Entrepreneurship Development” by Wadhwani Foundation	PEC Chandigarh	

Mathematics Department

1	Dr. Rattan Lal	International Conference on Mathematical Sciences and its Applications (ICMSA 2024)	SGTBK College, University of Delhi	15-17 Oct 2024
		National Conference on Indian Mathematics in NEP-2020	NITTTR Chandigarh	13-14 Nov 2024
		PDE: Analysis and its applications to engineering problems in Industry	ABV-IIITM Gwalior	29-30 Nov 2024
		MOOCs Online Courses and Open Educational Resources	MMTTC, Punjabi University, Patiala	10-16 Dec 2024
		NSS Orientation Training Programme	RGNYD, Regional Centre, PEC Campus	30th March to 5th April 2025

		39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)	Department of Sciences and Humanities, Christ (Deemed to be University), Bengaluru	27-29 Dec, 2024.
2	Dr. Ankit Kumar	International Conference on Mathematical Sciences and its Applications (ICMSA 2024)	SGTBK College, University of Delhi	15-17 Oct 2024
		National Conference on Indian Mathematics in NEP-2020	NITTTR Chandigarh	13-14 Nov 2024
		PDE: Analysis and its applications to engineering problems in Industry	ABV-IIITM Gwalior	29-30 Nov 2024
		MOOCs Online Courses and Open Educational Resources	MMTTC, Punjabi University, Patiala	10-16 Dec 2024
		39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)	Department of Sciences and Humanities, Christ (Deemed to be University), Bengaluru	27-29 Dec, 2024.
		14 th Edition of DIDAC INDIA	India International Convention and Expo Centre, Dwarka, New Delhi	19 September, 2024

Physics Department

1.	Shilpi Chaudhary	4th International Conference on Nanomaterials in Biology, Invited Talk	University of Rajasthan, Jaipur, India.	03-06th February 2025
2.	Shilpi Chaudhary	International Conference on Advanced Materials and Start-up Ecosystem, Invited Talk	Thiruvananthapuram, Kerala, India.	13-15 th December, 2024
3.	Shilpi Chaudhary	Smart Materials for Sustainable Technology, Convener,	INST Mohali, India.	24-27 th October 2024
4.	Shilpi Chaudhary	Cold-Sprayed Copper Coatings on SS316L Steel” in Cold Spray Workshop, Invited talk	IIT Ropar, India	11th March 2025
5.	Sanjeev Kumar	IEEE Ultrasonics, Ferroelectrics and Frequency Control Joint Symposium	Taipei, Taiwan	22-26th September, 2024

6.	Sanjeev Kumar	5th IEEE India Council International Subsection Conference (INDISCON 2024)	Chandigarh	22-24th August, 2024
7.	Sanjeev Kumar	International Conference on Engineered Materials for Sustainable Development (EMSD-2024)	Chandigarh	24-26th July, 2024
8	Sandeep Kumar	International Conference on Emerging Advanced Nanomaterials (ICEAN 2024)	The University of Newcastle, Australia	November 4-8, 2024
9	Sandeep Kuma	UK-India International Semiconductor-Photonics Symposium 2025 (ISPS 2025)	Ulster University, United Kingdom	January 23-24, 2025
10	Sandeep Kuma	International Workshop “Emerging Materials and Interfaces for Energy and Health”	Panjab University, Chandigarh	June 25-2027, 2025
11	Sandeep Kuma	5th IEEE India Council International Subsection Conference (INDISCON 2024)	Chandigarh	August 22-24, 2024

Civil Engineering Department

1	S.K. Singh	Challenges and Innovations for Sustainable Smart Cities (CISSC 2025)	Hotel Novotel, Chandigarh	7-9 Feb, 2025
2	Dr. Pardeep Kumar Gupta	15 th International Conference on Transportation Planning and implementation methodologies for developing countries (TPMDC)	IIT Bombay	18 th December 2024-20 th December 2024
3	Dr. Sarita Singla	ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025) organized by ASCE India Section Northern Region (ASCE IS NR) & Punjab Engineering College, Chandigarh (February 7–9, 2025, Hotel Novotel, Chandigarh. I. Paper titled “Sustainable Development Through Nanotechnology:	Hotel Novotel, Chandigarh	7 th -9 th Feb, 2025

		Classification and Application of Nanoparticles in Cement Composites”. (Dr. Sarita Singla, Vidushi Chadha) II. Poster titled “Sustainable Engineering Through Biochar: A New Frontier for Eco-Conscious Practices” (Dr. Sarita Singla, Kanav Devgan). Poster titled “Diagrid System: An Innovative Structural Solution for Tall Buildings” (Dr. Sarita Singla, Ishita Gupta)		
4	Dr. Geeta Arora	ASCE International Conference on Challenges and Innovations of Sustainable Smart Cities	Novotel Hotel, Chandigarh	7 th - 9 th February 2025
5	Dr. Geeta Arora	National Conference (AGMET 25) Frontier Technologies for Weather and Climate Based Decisions in Agriculture and Allied Sector Jointly organized by Association of Agrometeorologists, Anand & AAU Jorhat	Assam Agricultural University, Jorhat, Assam	13 th -15 th February 2025
6	Dr. Geeta Arora	Face to face Faculty Development Programme on UHV-II	Panjab Univ.	20 th -27 th June 2025
7	Arshdeep Singh	Performance based design of tall buildings	IIT Roorkee	5-6 th April, 2025
8	Dr. Har Amrit Singh Sandhu	1 week training on Application of Auto CAD in Engineering Conducted by Civil Engineering Department (NITTR) (Ministry of Education, Government of India)	Chandigarh	19 th - 23 rd May 2025
9	Dr. Har Amrit Singh Sandhu	National Institute of Technical Teachers Training and Research Chandigarh (Ministry of Education, Government of India)	Chandigarh	01-05, August, 2024

10	Dr. Har Amrit Singh Sandhu	Advanced Construction Materials and Technique conducted by Civil Engineering Department at NITTTR, Chandigarh	Chandigarh	15-26, July, 2024
11	Dr. Har Amrit Singh Sandhu	Advance Mapping through Drone Applications	Chandigarh	4 th -9 th , March, 2024
12	Dr. B. Adinarayana	Satellite Data Analysis with Deep Learning & python	IIT Madras	12th March - 25th March 2024.
13	Dr. B. Adinarayana	NEP 2020 Orientation & Sensitization Programme	IIT Kharagpur	19 th June 2024 – 28 th June 2024
14	Dr. B. Adinarayana	15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)	IIT Bombay	18 th December 2024- 20 th December 2024,

Computer Science & Engineering Department

1	Dr. Mamta Dabra	Faculty Development Program on Design Thinking and Innovation Management for Startups	PEC, Chandigarh	01 st July, 2024 - 05 th July, 2024
2	Dr. Mamta Dabra	Faculty Development Programme on Quantum Technologies & Applications (QT-01)	Online	28th February, 2025 - 22 March, 2025
3	Dr. Mamta Dabra	Faculty Development Programme on AI and Machine Learning: Shaping the Future of Sustainable Engineering Solutions (AIML-SESS 2025)	Online	04 th April, 2025 -13 th April, 2025
4	Dr. Nitin Kumar	Workshop on Artificial Intelligence and Office Tools	Outside PEC	21 st March, 2025
5	Dr. Nitin Kumar	SWAYAM Outreach Workshop for the implementation of SWAYAM Courses	Outside PEC	15 th February, 2025
6	Dr. Nitin Kumar	Talk on Implementation of Machine Learning using MATLAB	Outside PEC	17 th September, 2024
7	Dr. Nitin Kumar	Session Chair in 7th International Conference on	Outside PEC	22 nd February, 2025-23 rd February, 2025

		Information Systems and Management Science (ISMS)		
8	Dr. Mamta Ramteke	Short Term Course on Advances in Artificial Intelligence and Computing for Robust Engineering Applications	PEC, Chandigarh	08th July, 2024-12th July, 2024
9	Dr. Mamta Ramteke	5th IEEE India Council International Subsections Conference(INDISCON 2024)	PEC, Chandigarh	22nd August, 2024-24th August, 2024
Aerospace Engineering Department				
1.	Dr. Konark Arora	25 th Annual AeSI CFD Symposium	Birla Institute of Technology, Misra , Ranchi	11 th – 13 th August, 2024
Metallurgical and Materials Engineering Department				
1	Prof. Uma Batra	13 th International Symposium on Electrochemical Science and Technology	Thiruvananthapuram, Kerala	8 th – 10 th January 2025
2	Prof. Uma Batra	Workshop on “Materials and Electrochemical Methods for Energy Systems”	Thiruvananthapuram, Kerala	7 th January 2025
3	Prof. Uma Batra	International Conference on Mining, Minerals, Metals and Materials (IC4M-2025)	CSIR-IIMT, Bhubaneswar, Odisha	21 st – 25 th January 2025
4	Dr. J.D. Sharma	International Conference on Frontiers in Ceramic Materials (ICFCM 2024)	IIT BHU	16 th – 18 th December 2024
5	Dr. J.D. Sharma	International Conference on Advanced Materials for Sustainable Development (ICAMSD-2025)	MNIT Jaipur	28 th – 29 th March 2025
6	Dr. Vibhor Chaswal	Conference on Materials for Emerging Technologies and Heat Treatment “MET-HTS” by ASM International (India)	Goregaon, Mumbai	4 th - 6 th September 2024
7	Dr. Kiran Lata Bhaskar	International Conference on Mining, Minerals, Metals and Materials (IC4M-2025)	CSIR-IIMT, Bhubaneswar, Odisha	21 st – 25 th January 2025
8	Dr. Kiran Lata Bhaskar	Chandigarh Science Congress (CHASCON 2024)	Panjab University, Chandigarh	6 th – 8 th November 2024
9	Dr. Kaustubh Ramesh Kambale	3 rd International Conference on Functional Materials and	SVNIT, Surat, Gujarat	18 th – 19 th October 2024

		Applied Physics (FMAP-2024)		
10	Dr. Kaustubh Ramesh Kambale	PM 25 – International Conference on Powder Metallurgy and Particulate Materials	Vashi, Navi Mumbai, Maharashtra	19 th – 21 st February 2025
11	Dr. Kaustubh Ramesh Kambale	International Conference on Advanced Materials for Sustainable Development (ICAMSD-2025)	MNIT Jaipur	28 th – 29 th March 2025
12	Dr. Sunil Manani	International Conference on Advanced Materials for Sustainable Development (ICAMSD-2025)	MNIT Jaipur	28 th – 29 th March 2025
13	Dr. Gaurav Pal Singh	International Conference on Advanced Materials for Sustainable Development (ICAMSD-2025)	MNIT Jaipur	28 th – 29 th March 2025
Production and Industrial Engineering Department				
1	Dr. Mohit Tyagi	International Conference on Modern Manufacturing and Management Intelligence	NIT Jamshedpur India	27 Feb-01 st March 2025.
		International Conference on Design and Manufacturing Technologies	PEC Chandigarh	08-10 Nov 2024
		International Conference on Future and Recent Advances in Mechanical Engineering (FRAME-2024)	NIT Kurukshetra	15-17 October 2024.
2	Dr. Jasvinder Singh	International Conference on Additive Manufacturing and Characterization (ICAMC-2025)	IIT Bombay	9-11 January 2025.
		International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025)	MNIT, Jaipur	28-29 March 2025.
		Indo-German Symposium on Advance in Additive Manufacturing (IGSTC)	IIT Tirupati	3-4 March 2025.
3	Prof. RM Belokar	Proceedings of the Industrial Engineering and operations Management World congress Michigan, USA	1st World Congress 2024, Detroit, USA	9th-11th October, 2024

		International conference on Mechanical, Industrial and Production Engineering (ICMIPE-2024)	New York USA	17-18th October 2024
4	Dr. Mohit Tyagi	The 51st International Conference on Computers & Industrial Engineering (CIE51)	UNSW Canberra, Sydney, Australia	09-11th Dec 2024
5	Prof. RS Walia	The 51st International Conference on Computers & Industrial Engineering (CIE51)	UNSW Canberra, Sydney, Australia	09-11th Dec 2024
Mechanical Engineering Department				
1	Dr. Alakesh Manna	International Conference on Design and Manufacturing Technologies (ICDMT-2024)	Punjab Engineering College (Deemed to be University), Chandigarh	November 8-10, 2024
2	Dr. D. R. Prajapati	7th European Conference on Industrial Engineering and Operations Management	Augsburg University of Applied Sciences, Munich, Germany	July 16-18, 2024
3	Harshit Kumar Khandelwal	International Conference on Design and Manufacturing Technologies (ICDMT-2024)	Punjab Engineering College (Deemed to be University), Chandigarh	November 8-10, 2024
4	Kamal Kumar	Advanced Materials for Sustainable Development (ICAMSD-2025)	MNIT Jaipur	March 27-29, 2025
5	Mohinder Pal Garg	15 th Annual International Conference on Industrial Engineering and Operations Management	Singapore University of Social Sciences (SUSS), Singapore	February 18-20, 2025
6	Perminderjit Singh	9 th International Conference on Manufacturing Technologies ICMT 2025	Atlanta, USA	January 13-17, 2025
7	Sandeep M. Salodkar	International Conference on Design and Manufacturing Technologies (ICDMT-2024)	Punjab Engineering College (Deemed to be University), Chandigarh	November 8-10, 2024
8	Sandeep M. Salodkar	21 st National Conference on Emerging Technology Trends in Engineering & Project Competition	KDK College of Engineering Nagpur (Online)	March 22, 2025

9	Sanjeev Kumar	9 th International Conference on Mechanical Engineering and Robotic Research	Universitat Politècnica de Catalunya, Barcelona, Spain	January 15-17, 2025
10	Sanjeev Kumar	International Conference on Advanced Materials for Sustainable Development	MNIT, Jaipur	March 28-29, 2025
11	Sarbjit Singh	15 th Annual international conference on Industrial Engineering and Operations management	Singapore University of Social Science Singapore	February 18-20, 2025
12	Sarbjit Singh	International Conference on Advanced Materials for Sustainable Development (ICAMSD-2-25)	Malaviya National Institute of technology (MNIT) Jaipur	March 28-29, 2025
13	Nitin Dixit	International Conference on Design and Manufacturing Technologies (ICDMT-2024)	Punjab Engineering College (Deemed to be University), Chandigarh	November 8-10, 2024
14	Nitin Dixit	5 th International Conference on Recent Advances in Mechanical Infrastructure (ICRAM)	IITRAM Ahmedabad	January 10-12, 2025
15	Nitin Dixit	2 nd International Conference on Product Design (ICPOD-2025)	Lovely Professional University, Jalandhar	April 10-11, 2025
16	Viveksheel Rajput	International Conference on Advanced Materials for Sustainable Future (ICAMSF-2025)	Chitkara University, Punjab	March 28-29, 2025
17	Ankit Yadav	Swayam Outreach Workshop on Integration and implementation of Swayam Courses	University of Kashmir	February 15, 2025
18	Harshit Kumar Khandelwal	Short Term Course on '3D and 4D Printing'	National Institute for Technical Teachers Training and Research, Chandigarh (Online)	August 19-23, 2024
19	Harshit Kumar Khandelwal	Short Term Course on 'Digital Twinning'	National Institute for Technical Teachers Training and Research, Chandigarh (Online)	September 09-13, 2024

20	Harshit Kumar Khandelwal	Short Term Course on 'Computer aided design and artificial intelligence'	National Institute for Technical Teachers Training and Research, Chandigarh (Online)	November 18-22, 2024
21	Harshit Kumar Khandelwal	Short Term Course on 'Modelling and Simulation using MATLAB'	National Institute for Technical Teachers Training and Research, Chandigarh (Online)	December 16-20, 2024
22	Harshit Kumar Khandelwal	Short Term Course on 'Advanced material Processing and Characterization'	National Institute for Technical Teachers Training and Research, Chandigarh (Online)	January 06-10, 2025
23	Lokesh	Small Scale Intensified two phase processing	IIT, Roorkee	December 2-6, 2024
24	Viveksheel Rajput	Innovations & Applications in Engineering Materials	KIET, UP	February 3-7, 2025
25	Viveksheel Rajput	Smart Manufacturing Technologies aligned with Industry 4.0: Challenges and Opportunities	Punjab Engineering College, Chandigarh	January 6-11, 2025
26	Alakesh Manna	Energy Efficient Building Technology (EEBT-2024) [As an Expert and Delivered an expert lecture on topic titled 'Air conditioning system layout and design' on 04.12.2024]	NIT Hamirpur	December 04, 2024

Electronics and Communication Engineering Department

1	Dr. Gourab Das	IEEE Microwave, Antennas and propagation conference	Hyderabad	09 Dec-13 Dec, 2024
2	Dr. Gourab Das	Phased Array Antenna Systems for Radar and Modern Communication Applications (workshop)	IIT Dhanbad	15 Feb- 19 Feb, 2025
3	Dr. Gourab Das	39TH INDIAN ENGINEERING CONGRESS (Conference)	Kolkata	20 Dec-22 Dec, 2024
4	Dr. Jaskirat Kaur	AI/ML approaches for Efficient VLSI Circuit Designs	IIT Roorkee	02 Dec-13 Dec, 2024
5.	Dr. Jaskirat Kaur	IP Commercialization and Tech Transfer	Punjab State Council for Science &	27 th Feb 2025

			Technology, the State Node of Department of Science & Technology, Govt. of India	
Electrical Engineering Department				
1	Dr. Ajay Kumar	2024 IEEE 11th Power India International Conference (PIICON)	MNIT Jaipur	10-12 December, 2025
Cyber Security Research Centre (CSRC)				
1	Dr. Divya Bansal	TTDF proposal for 6G • Topic: understand the exact deliverables from all the teams and their plans for outcome delivery • To find synergies across teams (working in similar areas) and enable collaborate with them Identify teams (from IIT's and NIT's) which can help other teams in their work and collaborate with them.	IIT Madras Research Park	19th – 21st June 2025
Centre of Management and Humanities (CMH)				
1	Dr. Anju Singla	Joint Asia Conference on Business and Economic Studies	Udayana University, Bali, Indonesia	28 th - 30 th August, 2024
		22nd AIMS International Conference on Management	Indian Institute of Management, Kozhikode, Kerala, India	2 nd - 4 th January, 2025
2	Dr. Nidhi Tanwar	4th International Conference on Mathematical, Engineering and Management Sciences	Departments of Mechanical Engineering, NIT Meghalaya and NIT Patna	10 th - 11 th September, 2024
		International Conference on Future and Recent Advances	National Institute of Technology	15 th – 17 th October, 2024

		in Mechanical Engineering (FRAME- 2024)	Kurukshetra, Haryana	
		2nd International Finance and Accounting Conference (IFAC-2024)	Indian Institute of Management (IIM) Jammu	12 th – 13 th December, 2024
		International Conference on Modern Manufacturing and Management Intelligence (ICMMMI 2025)	Department of Production and Industrial Engineering, NIT Jamshedpur	27 th February – 1 st March, 2025.

10. EXTENSION / EXTRA-MURAL LECTURES BY EMINENT ENGINEERS/SCIENTISTS

Physics Department						
1.	Prof. Ajayan Vinu	Professor, Director	Global Innovative Center for Advanced Nanomaterials, University of Newcastle , Australia	Nanoporous Functional Materials for Clean Energy and Environment	Department of Physics	28 th April, 2025
2.	Dr. Parveen Kumar	Associate Professor	School of Materials Science, Indian Association for the Cultivation of Science, Kolkata	Harnessing Spin-Dependent Catalysis and Self-Powered Photodetection in 2D Materials	Department of Physics	19 th May, 2025
3.	Prof. Ranjit Kumar Nanda B	Professor	Indian Institute of Technology, Madras	The new kid in the magnetic Horizon and the name is altermagnetism: What is the story so far?	Department of Physics	7 th March, 2025
Metallurgical and Materials Engineering Department						
1	Prof. Roop Mahajan	Lewis A. Hester Chair in Engineering	Verginia Tech University	Exploring the technological horizons of graphene technology	Metallurgical and Materials Engineering	19 th April 2025
Civil Engineering Department						
1	S.K. Singh	Professor & Head	Punjab Engineering College (Deemed University), Chd	Slope Stability and Land Slide Mitigation in Hill Region	NITTTR Chandigarh	24 th April, 2025

2	Arshdeep Singh	Assistant Professor	Punjab Engineering College (Deemed University), Chd	Potential of agro-wastes ashes in the production of sustainable concrete	OPJU, Raigarh	6 th March 2025
3	Arshdeep Singh	Assistant Professor	Punjab Engineering College (Deemed University), Chandigarh	Keynote Speaker at Conference Building Urban Infrastructures with Leading Design Innovations (BUILD 2025), Chandigarh University	Chandigarh University	31 st May 2025
Cyber Security Resaerch Centre (CSRC)						
1.	Sanjay Madan	Guest faculty	M.tech	Malware Analysis	CSRC	Semester 24-25-2
2.	Sidhant Dogra	Guest faculty	M.tech	Foundation of Digital Forensics	CSRC	Semester 24-25-2

11. SHORT TERM COURSES ATTENDED (DURATION 1 WEEK OR MORE)

Mathematics Department					
Sr. No.	Summer School/Winter School/ Short Term course with the name of the organizer and place	Period (Date format 11 th August 2023)			Duration
		From	To		
Physics Department					
1.	Wadhwani Ignite FDP	2 nd June 2025	6 th June 2025		1 week
Metallurgical and Materials Engineering Department					
1	FDP on “Design Thinking and Innovation Management for Startups” organized by NITTTR Chandigarh attended by Dr. Vibhor Chaswal, Dr. Kiran Lata Bhaskar and Dr. Kaustubh R. Kambale	1 st July 2024	5 th July 2024		1 week
Computer Science and Engineering Department					
1	Faculty Development Programme on Advanced Machine Learning: Diverse Applications from Healthcare to Industry, Dr. Padmavati at PEC,Chandigarh	03rd February, 2025	15th February, 2025	2 weeks	
2	Faculty induction training programme for newly recruited teachers Dr. Satnam Kaur and Dr. Mamta Dabra) at NITTTR Chandigarh	04th November, 2024	15th November, 2024	12 days	

Electronics and Communication Engineering Department					
1.	Dr. Deepak Kumar Sharma	Wadhwani Foundation	2 nd June 2025	6 th June 2025	1 Week
2.	Dr. Gourab Das	Wadhwani Foundation	2 nd June 2025	6 th June 2025	1 Week
3.	Dr. Jaskirat Kaur	Wadhwani Foundation	2 nd June 2025	6 th June 2025	1 Week
Production and Industrial Engineering Department					
1	Advances in Artificial Intelligence and Computing for Robust Engineering Applications (Dr. Jimmy Karloopia)	8th/July/2024	12th/July/2024	5 Days	
2	Smart Manufacturing Technologies aligned with Industry 4.0: Challenges and Opportunities (Dr. Rahul O Vaishya)	6th/Jan/2025	11th/Jan/2025	6 Days	
3	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-Malaviya Mission Teacher Training Ctr. (Dr. Mohit Tyagi)	18 July 2024	30 July 2024	13 days	
4	Faculty Development Program on “Design Thinking and Innovation Management for Startups” Jointly Organized by NITTTR and PEC at Punjab Engineering College (Dr. Mohit Tyagi)	01 July 2024	05 July 2024	6 days	
5	Faculty Development Program on “Wadhwani Foundation Ignite India” The Centre of Management and Humanities (CMH) and Punjab Engineering College Chandigarh. (Dr. Jasvinder Singh)	02 June 2025	06 June 2025	5 Days	
Civil Engineering Department					
1	Short Term Training Programme on “Structural Safety Audit of Build Environment and Earthquake & Land Slide Risk Mitigation” from 21-25 April, 2025 at NITTTR, Chandigarh (Resource Person)	21 April 2025	25 April 2025	One week	

2	Faculty Development Programme on UHV-II Organised by AICTE at Panjab University, Chandigarh	20 th June 2025	27 th June 2025	8 days
3	1 week training on Application of Auto CAD in Engineering Conducted by Civil Engineering Department (National Institute of Technical Training and Research Chandigarh (Ministry of Education, Government of India	19 th May 2025	23 th May 2025	5 Days
4	National Institute of Technical Teachers Training and Research Chandigarh (Ministry of Education, Government of India)	01 Aug 2024	5 Aug 2024	5 Days
5	Advanced Construction Materials and Technique conducted by Civil Engineering Department at NITTTR, Chandigarh	15 July 2024	26 July 2024	5 Days

Metallurgical and Materials Engineering Department

1	FDP on “Design Thinking and Innovation Management for Startups” organized by NITTTR Chandigarh attended by Dr. Vibhor Chaswal, Dr. Kiran Lata Bhaskar and Dr. Kaustubh R. Kambale	1 st July 2024	5 th July 2024	1 week
2	FDP WEN Ignite by Wadhwani Foundation by Dr. Vibhor Chaswal, Dr. Kiran Lata Bhaskar and Dr. Kaustubh R. Kambale	2 nd June 2025	6 th June 2025	1 Week

Centre of Management and Humanities (CMH)

1	One-week short term Course on Advances in Artificial Intelligence and Computing for Robust Engineering Applications organized by Computer Science & Engineering Department, attended by Dr. Nidhi Tanwar, Assistant Prof., CMH at Punjab Engineering College Chandigarh	8th July, 2024.	12 th July, 2024.	1 week
2	FDP on Design Thinking and Innovation Management for Start-ups organised by Entrepreneurship Development and Industrial Coordination Department with National Institute of Technical Teachers Training and Research, Chandigarh attended by Dr. Nidhi Tanwar,	1 st July, 2024	5 th July, 2024	1 week

	Assistant Prof., CMH at Punjab Engineering College Chandigarh			
3	FDP on Smart Manufacturing Technologies aligned with Industry 4.0: Challenges and Opportunities, attended by Dr. Anju singla, Professor, CMH and Dr. Nidhi Tanwar, Assistant Prof., CMH organized at Production and Industrial Engineering, Punjab Engineering College, Chandigarh	6th January, 2025	11 th January, 2025	1 week

12. SCIENTIFIC/ TECHNICAL REPORTS PREPARED UNDER SPONSORED RESEARCH PROJECTS

Chemistry Department				
1.	Manpreet Kaur, Dr. Veeranna Yempally, Dr. Harminder Kaur	From waste to wealth Developing Ni-Sn MOFs from PET for CO2 capture and conversion to value added chemicals	Science for Equity Empowerment and Development (SEED)	March 2025
Civil Engineering Department				
1	Dr. B. Adinarayana	Study on traffic control of pedestrian crossing behavior consideration at congestion intersections for Chandigarh City to achieve SDG -2030 Targets	DST & RE Chandigarh	October 2024
Aerospace Engineering Department				
1	Dr. Rakesh Kumar (PI) Tushar Siag (Co-PI)	Automatic target interception using fixed-wing UAV	TBRL, DRDO	2 years
Production and Industrial Engineering Department				
1	Dr. Gurpreet Singh	High entropy lead-free relaxor- ferroelectric perovskite ceramics with superior energy storage and electrocaloric performance	DST-SRG	Sept 2023

2	Prof. R.S. Walia, Dr. Gurpreet Singh Dr. Jimmy Karloopia Dr. Jaswinder Singh	Nature-inspired Laser Surface Texturing Centre to develop innovative functional surfaces.	DST-FIST	May2024
3	Dr. Gurpreet Singh	PEC Initiation Grant on Laser-induced surface patterning of crystallization glasses for photocatalytic applications	PEC Chandigarh	10 April 2024
4	Dr. Jasvinder Singh	PEC Initiation Grant on 3D Printing	PEC Chandigarh	10 April 2024
5	Dr. Mohit Tyagi	Skill Development Training	IISER ,Mohali	Nov. 2023
		Automation Internship Training	GGSIPIU, Delhi	Aug. 2023

Electrical Engineering Department

1	Dr. Shimi S.L and Dr. Tejinder Singh Saggu	Measurements based Impact study on solar PV and Electric vehicle integration to the Grid	DST, Chandigarh Reference No: S&T&RE/RP/F-147/Sanc/10/2023/1051-1057	4th October, 2023 to 4th October, 2024
---	--	--	--	--

Cyber Security Research Centre (CSRC)

1	Dr. Divya Bansal	“Advanced Machine Learning-Based Anomaly and Fraud Detection System for Next-Generation Telecom Networks” under the TTDF Scheme,	DoT	Dec 12, 2024
---	------------------	--	-----	--------------

13. PATENTS (FILED/GRANTED)

Chemistry Department					
Sr. No.	Patent applied by	Patent filed for	Filed on	Patent Granted (Yes/No)	Duration of Patent
1.	Anita Gupta, Rohit Babu Aniyery, Harminder Kaur	Synthesis and Biological Activity of ({5-[(3aR,4R,6aS)-2-oxo-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]pentanoyl}oxy) dibutylstannyl 5-[(3aS,4S,6aR)-	July 19, 2024	Yes	20

		2-oxo-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]pentanoate			
Civil Engineering Department					
1	S.K Singh and Syed Mohd. Arif	Flush Integrated Toilet Seat	Design No. 417443-001 dated 20.05.2024	Yes Granted on 11.07.2024	10 Years
2	P Singh, S.K. Singh, S Pathak, S.M Arif	Device for holding & carrying bricks	Patent application No. 463290-001 dated 24.06.2025	No (Under consideration)	--
3	Divya Sharma, Rab Bir Singh, Arshdeep Singh, Kanish Kapoor	"Mix design of high strength one-part geopolymers concrete".	(Application no: 202511016207, TEMP/E-1/18583/2025-DEL)	No (Under Consideration)	---
Production and Industrial Engineering Department					
1	Dr. Jasvinder Singh	Methodology to Fabricate Customized Shape Polymeric Tubular Stent	19/09/2018	Yes	
2	Dr. Jimmy Karloopia	IoT based underwater welding machine	26/09/2024	Yes	
		Centrifugal Machine for Pathology Applications	17/05/2024	Yes	
		Autonomous Water Surface Debris Remover	10/07/2024	Yes	
		Ultrasonic Welding Robot	20/07/2024	Yes	
3	Dr. R.M. Belokar	Measuring Tape with Built-in Sharpener	24/09/2024	Yes	
4	Dr. Mohit Tyagi	A smart face shield with real time temperature and distance monitoring	20/03/2021	Yes	
Mechanical Engineering Department					
1	Kamal Kumar	Friction Stir Tool with replaceable tungsten carbide tool pin	Published	--	24/10/2024
		Bone Scaffold Architecture	Granted	415650-001	07/04/2025

2	Rajesh Kumar Kanda	IOT based ultrasonic welding robot	Granted	431730-001	02/12/2024
3	Sandeep M. Salodkar	Distantly Controlled Smart system for surgical robot	Granted	552971	23/10/2024
4	Sarbjit Singh	Bolt Opener Keyed Hammer	Granted	427492-001	20/08/2024
Electronics and Communication Engineering Department					
1.	Vivek, Neelam Rup Prakash, Parveen Kalra and Manpreet Kaur	Animal Repellant Device	18/10/2019	Yes	20 years
2.	Dr.Kandan. M, Dr. Neeraja Yadanaparthi, Dr. Jaskirat Kaur, Nanditha Byragodanahalli Ramaswamy, Sandhiya Balamurugan, Dr. Asma Anjum	Machine Learning-Based Diagnostic Imaging Device	03/1/2024	Yes	10 years
Electrical Engineering Department					
1	Meena Kumari, Dr. Naimur Rahman , Dr Shimi S.L, Dr. Saba Siddiqui, Mr. Aryan, and Ms. Anshu Khare	Crop Health Monitoring Device	A design patent No. 423194-001 dated 15/07/2024	Yes	10 years extendable for 5 maore years

XIII. Consultancy Projects with an outlay of 1 lacs and above (01.07.2024 to 30.06.2025)

Completed/Ongoing

S. No	Principal Investigator	Name of the Agency	Title / Brief Summary of Consultancy Project	Outlay (in Lacs)	Status (Completed / Ongoing)
1	Prof. Kuldeep Kumar	M/s Poddar Tires Limited, GT Road, Jugiana, Ludhiana	Vetting of Structural Design and Drawings for Construction of Ajnoud Plant	1.50	Completed
2	Prof. Kuldeep Kumar	Sub Station Engineer, 66 KV Sub Station, Sector - 52, Chandigarh	Consultation for Technical Specifications/Drawings for Civil Structure/Retaining Wall	2.50	Completed
3	Prof. Sarita Singla	Chief Engineer (C) Punjab Police Housing Corporation Ltd, Ph-VII, Mohali	Vetting of Drawings of Jail Head Quarters, Sector - 68, Mohali	1.25	Completed
4	Prof. Kuldeep Kumar	M/s C&E Consultancy, Shimla, Himachal Pradesh	Proof Checking of Structural Design and Drawings for Redevelopment of Metropole Building	2.34	Completed
5	Prof. Ajay Kumar	M/s Chawla Associate, 107-C, Sector - 20, Panchkula, Haryana	Soil Electrical Resistivity Test	1.00	Completed
6	Prof. Umesh Sharma	Executive Engineer, C.P. Division No. 5, Chandigarh	Third Party Technical Post Audit Work for construction of Group Home for Persons Recovered from Mental Illness	5.78	Completed
7	Prof. T.S. Saggu	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 1584k Wp Grid Connected Rooftop Power plant	6.68	Ongoing
8	Prof. Sarita Singla	M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali	Vetting of Structural Design/Drawings of Academic Block building at Chandigarh University	8.58	Completed
9	Prof. Kuldeep Kumar	M/s Active Clothing Co. Limited, E-225, Phase - 8B, Mohali	Vetting of Design and Drawings relating to Warehouse Stacking Shed	1.50	Completed
10	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-	TPI work of Aggregate Capacity of 955k Wp Grid Connected Rooftop Power	4.03	Ongoing

		19, Chandigarh	plant		
11	Prof. Manohar Singh	M/s Essar Power Gujarat Ltd, Jamnagar-Okha Highway, Dwarka, Gujarat	Review and Audit of Protection Systems with 10% of PO Value with Submission of Final Report	1.53	Ongoing
12	Prof. S.K Sharma	Executive Engineer, MC, Panchkula	Regarding Re-Assessment for the work of Bio-Remediation of Legacy Waste present at Dump Site	12.50	Completed
13	Prof. Kuldeep Kumar	Hospital Engineer (Const.) P.G.I Chandigarh	TPQA for the work related to Upgradation and Repair of Residential Houses	2.20	Completed
14	Prof. Kuldeep Kumar	Hospital Engineer (Const.) P.G.I Chandigarh	TPQA for the work related to Upgradation and Repair of Residential Houses	2.00	Completed
15	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 763K Wp Grid Connected Rooftop Power plant	3.22	Ongoing
16	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 300K Wp Grid Connected Rooftop Power plant	1.58	Ongoing
17	Prof. Manohar Singh	Punjab State Power Corporation Limited, B-I, Shakti Vihar, Patiala	Regarding the review of Technical Specifications of 11kV VCB Panels and 66kV CTS	1.50	Completed
18	Prof. Arshdeep Singh	SDE HSAM Board, Basement of Kisan Bhawan, Sector -14, Panchkula	Tests for Development of Ultra-Modern Apple, Fruit and Vegetable Market	1.00	Completed
19	Prof. Kuldeep Kumar	Hospital Engineer (Const.) P.G.I Chandigarh	Consultancy Services for Conducting Structural Audit and Non-Destructive Test for Research Block A & B at PGI	16.25	Ongoing
20	Prof. Sarita Singla	Dy. Chief Engineer/ Const/Doubling, Northern Railway, Jammu Tawi	Regarding Checking/Vetting of Approved Design/Drawings of Sub-Structure Bridge	9.00	Ongoing
21	Prof. Sarita Singla	M/s BCL Homes Limited, Village - Peermuchalla, Zirakpur, Punjab	Vetting of Structural Drawings and Design of Basement Parking at Chinar Homez	1.35	Completed
22	Prof. Kuldeep Kumar	M/s Aarav & Associates, Structural Engineers & Technical Advisor, Banur, Punjab	Vetting of Structural Design and Drawings for Construction of Various Buildings	1.25	Completed
23	Prof. Kuldeep Kumar	J.E (Civil), FCI, District Office, Chandigarh	Consultancy Work for M-30 CC Design Mix	1.50	Completed
24	Prof. Sarita	Chief Engineer, RGTPP	Consultancy for Construction	3.18	Ongoing

	Singla	Haryana Power Generation Corporation Ltd., Khedar, Hisar	of Boundary Wall around Ash Dyke Area		
25	Prof. Umesh Sharma	M/s Ortech Textiles Pvt. Ltd, Plot No. 18, Ph. VI, Industrial Area Mohali	Project Assessment Report for Completion of Industrial Site	2.38	Completed
26	Prof. Umesh Sharma	Executive Officer, Municipal Council, Naya Gaon, Mohali	Technical Opinion Regarding the Sufficiency of Width of the Existing Road	3.80	Completed
27	Prof. Umesh Sharma	Executive Engineer, C.P. Division No. 5, Chandigarh	Third Party Technical Post Audit for Construction of Group Home	8.83	Completed
28	Prof. Kuldeep Kumar	M/s Aarav & Associates, Structural Engineers & Technical Advisor, Banur, Punjab	Vetting of Structural Design and Drawings for Construction of Girls & Boys Hostel in PGI	1.20	Completed
29	Prof. Manohar Singh	Executive Engineer, Electrical Division, M.C Chandigarh	Third Party Inspection of Electrical Installation for the Renovation of Sub Office, Manimajra	1.43	Ongoing
30	Prof. Kuldeep Kumar	M/s Continental Foundations, # 1059, Sector - 43/B, Chandigarh	Vetting of Structural Design and Drawings for the Work in Haryana	1.00	Completed
31	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 763K Wp Grid Connected Rooftop Power plant	10.79	Ongoing
32	Prof. S.K Sharma	M/s Punjab Irrigation & Farm Solutions, Sunder Nagar, Mandi, HP	Vetting of different Components for providing Water Supply Scheme	1.00	Completed
33	Prof. Sarita Singla	Chief Engineer, RGTPP Haryana Power Generation Corporation Ltd., Khedar, Hisar	Structural Vetting of Proposed Design of Dissipators at Ash Slurry Discharge Points at Ash Dyke of RGTPP	1.00	Completed
34	Prof. Sarita Singla	M/s Shiva S.S Strips Pvt. Ltd., M.C. Zirakpur, Mohali C/o Chawla Consultants	Vetting of Design and Structural Drawings for Showrooms No. 1 to 34 of Commercial Plotted Colony	1.00	Completed
35	Prof. Kuldeep Kumar	Manager (Civil), FCI, Regional Office, Jammu	Testing of Material and Design Mix of Cement Concrete Cubes	1.50	Completed
36	Prof. Kuldeep Kumar	M/s Jindal Structural Consultants, M.C. Road, Zirakpur, Punjab	Vetting of Structure Design and Drawings of Various Projects at Mohali	1.00	Completed
37	Prof. Kuldeep	M/s Continental	Vetting of Structural Design	1.00	Completed

	Kumar	Foundations, # 1059, Sector - 43/B, Chandigarh	and Drawings for the Work in Haryana		
38	Prof. Kuldeep Kumar	M/s Innovus Consultants & Builders, Engineers & Consultants, Bathinda, Pb	Vetting of Design/Drawings of Various Structures of M/s Jagat Industries	4.50	Completed
39	Prof. R.S. Walia	Haryana Skill Development Mission, Kaushal Bhawan, IP-2, Panchkula	Haryana State Skills 2024 Competition Additive Manufacturing Technology and Painting and decorating from 26th April to 11th May 2024	1.99	Completed
40	Prof. R.S. Walia	Mission Director, Chandigarh Skill Development Mission, DTE UT Chandigarh	India skills 2024 Competition: CNC Milling Training & CNC Turning Training from 8th to 11 th May 2024	1.20	Completed
41	Prof. Pardeep Gupta	M/s Gawar Construction Ltd., DSS = 378, Sector - 16-17, Hisar, Hr.	Rehabilitation and Upgradation to 2-Lane Configuration of Hamirpur-Karnahal Section	2.50	Ongoing
42	Prof. Umesh Sharma	Executive Engineer C.P. Division No. 5, Chandigarh	Third Party Technical Post Audit for Construction of Remaining Portion of Block B in Govt Rehabilitation Institute	4.11	Completed
43	Prof. Kuldeep Kumar	JE (Civil), FCI, Divisional Office, Karnal, Haryana	Consultancy Work related to M-40 Mix Design for Improvement of Roads	1.50	Completed
44	Prof. S.K Singh	SDE Punjab W/S & Sew. Sub Division No. 1, Patiala, Punjab	Investigation of Geological/ Soil Condition of Flood Affected Area for Construction of RCC Water Retaining Structures	9.00	Completed
45	Prof. Sarita Singla	Executive Engineer, Nalagarh Division, HP PWD Nalagarh, HP	Regarding Hydraulic Data, SBC & GAD Structural Design of Sub Structure & Super Structure for Construction of 25.00 Meter Span RCC Bridge	2.50	Ongoing
46	Prof. Kuldeep Kumar	M/s Obtuse Design Studio, 635, Sector - 4, U.E. Kurukshetra, Haryana	Vetting of Design/Drawings of Various Bridges in Haryana	1.00	Completed
47	Prof. Shakti Kumar	M/s Rajan Builders, # 76, Partap Nagar, Patiala, Punjab	Vetting of Design and Drawings for Main Pumping Station for STPs	1.25	Completed
48	Prof. Sarita Singla	M/s J.C. Technocrats Pvt. Ltd., SCF-9, Vikas Vihar, Ambala City	Proof Checking of Structural Design and Drawings of 100 Bedded Hospital, Ladies Ghat,	2.32	Completed

			Block Public Health Unit and Community Hall		
49	Prof. Sarita Singla	M/s Janta Land Promoters Pvt. Ltd (JLPL) SCO - 39-42, Sec -82, Mohali	Consultancy for preparing Assessment Report for processing of Completion Certificate from GMADA for Project Tower L Falcon View	3.00	Completed
50	Prof. Kuldeep Kumar	Executive Engineer, MC, Kalka, District Panchkula, Haryana	Structure Design/Drawings of Retaining Wall of various Structures and Foot Overbridge	1.70	Completed
51	Prof. Arshdeep Singh	M/s Senior Manager, Quality Control, Trident Hills Pvt. Ltd, Panchkula	Concrete Mix Design M-30 Grade and M 30 Self-Compacting Concrete	1.00	Completed
52	Prof. Sarita Singla	SDE Construction Sub Division No. 6, PEC, Sector - 12, Chandigarh	Consultancy for Extension of Kurushetra Boys Hostel at PEF Chandigarh	10.79	Completed
53	Prof. Kuldeep Kumar	SDE Construction Sub Division No. 3, UT, Chandigarh	TPI for work Construction of New I.T Block b in Post Graduate	5.74	Completed
54	Prof. Kuldeep Kumar	M/s Om Sons Marketing Pvt. Ltd, Dabwali Road, Bathinda, Punjab	Regarding Vetting of Various Building Blocks of Om Sons Marketing Pvt. Ltd.	4.00	Completed
55	Prof. Kuldeep Kumar	M/s Mubarakpur Farming Company, Vill - Kakrali, Dera Bassi, Mohali, Pb.	Proof Checking of Structural Drawings and Design of Building	1.36	Completed
56	Prof. Kuldeep Kumar	JE (Civil), FCI, Divisional Office, Karnal, Haryana	Consultancy Work related to M-40 Mix Design for Improvement of Roads	1.50	Completed
57	Prof. Shakti Kumar	M/s 21st Century Enviro Engineers Pvt. Ltd, SCO-265, Sec-32, Chandigarh	Vetting of Design of Providing and Laying of Intercepting and Diversion Sewer	1.00	Completed
58	Prof. Sarita Singla	Executive Engineer (Civil) University Works Division (Drawing Branch) GJUS&T Hisar	Consultancy for Providing Canopy to the Statue of Guru Jambheshwar Ji Maharaj	1.00	Ongoing
59	Prof. S.K Singh	Sr. Executive Engineer, Civil Mtc. Division No. (PW) BBMB Ganguwal, Pb.	Deposit Work (Soil Bearing Capacity) for Shifting of 220 KV Tower No. 106	1.20	Completed
60	Prof. Pardeep Gupta	SDE Const. Sub Division No. 12, Sector -17 C, Chandigarh	Conditional Survey of Road from Jn. No. 1 to Khudda Alisher	1.25	Completed
61	Prof. Sarita Singla	Executive Engineer, C.P. Division No. 2 (R), U.T. Chandigarh	Regarding Consultancy Service of N-Choe	2.40	
62	Prof. Kuldeep	Asstt. Manager (Civil)	Consultancy Work Regarding	3.00	Completed

	Kumar	FCI, RO Jammu	Replacement of CGI Sheets		
63	Prof. Umesh Sharma	J.E (Civil), FCI, District Office, Chandigarh	Testing of Granular Sub Base Regd. for Special Repair of Roads	1.50	Completed
64	Prof. S.K Sharma	M/s Kailash Kumar Sharma, 189, Sector - 4, Jagrati Vihar, Meerut, UP	Vetting of Design Drawings of 09 Nos. Overhead Water Tanks	1.20	Completed
65	Prof. Sarita Singla	M/s J.C. Technocrats Pvt. Ltd., SCF-9, Vikas Vihar, Ambala City	Proof Consultancy for Checking of Structural Design and Drawings of various Government Buildings	1.39	
66	Prof. Umesh Sharma	Project Director, NHAI, Implementation Unit, Ludhiana, Punjab	Detailed Inspection and Quality Audit of Highway with Emphasis on Safety	3.00	Completed
67	Prof. S.K Verma	SDE, C-9, Sub Division Chandigarh	Third Party Tech. Post Audit Work for Construction of Bus Queue Shelters	14.64	Completed
68	Prof. Kuldeep Kumar	JE (Civil), FCI, Divisional Office, Karnal, Haryana	Consultancy Work related to Conversion of Twin Type Valley Gutter Godowns in Single Span Godown	1.50	Completed
69	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 360K Wp Grid Connected Rooftop Power plant	1.72	Ongoing
70	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 360K Wp Grid Connected Rooftop Power plant	1.72	Ongoing
71	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 360K Wp Grid Connected Rooftop Power plant	1.72	Ongoing
72	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 300K Wp Grid Connected Rooftop Power plant	1.43	Ongoing
73	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec-19, Chandigarh	TPI work of Aggregate Capacity of 225K Wp Grid Connected Rooftop Power plant	1.07	Ongoing
74	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec- 19, Chandigarh	TPI work of Aggregate Capacity of 673K Wp Grid Connected Rooftop Power plant	2.84	Ongoing

75	Prof. Arshdeep Singh	SDE, HSAM Board, Kisan Bhawan, Sector - 14, Panchkula	Tests for Development of Ultra-Modern Apple, Fruit and Vegetable- Market	1.22	Completed
79	Prof. Sarita Singla	M/s Syal & Associates, F-91, Ind. Area, Phase - VII, Mohali	Vetting of Structural Design/Drawings of Various Haryana Government Buildings	2.90	Completed
77	Prof. Umesh Sharma	SDE, Road Sub Division No. 3, Additional Deluxe Building, Sec - 9, Chandigarh	Regarding Construction of Cement Concrete Pathway at Parade Ground	2.15	Completed
78	Prof. Kuldeep Kumar	Manager (Civil), FCI, Divisional Office, Patiala, Punjab	Consultancy Work related to M-30 Mix Design for Internal Repair of Roads	1.50	Completed
79	Prof. Kuldeep Kumar	M/s Aarav & Associates, Structural Engineers & Technical Advisor, Banur, Punjab	Vetting of Structural Design and Drawings relating to Jail Buildings	1.00	Completed
80	Prof. Sarita Singla	Xen/CMD-II, RGTPP, HPGCL, Khedar, Hisar	Vetting of detailed Abstract of Cost, Scope of Work, SOPs, Technical Specifications work of Retrofitting works of Residential Tower at RGTPP Colony	4.00	Completed
81	Prof. Sarita Singla	M/s Janta Land Promoters Pvt. Ltd (JLPL) SCO - 39-42, Sec -82, Mohali	Consultancy for Preparing Assessment Report for Processing of Completion Certificate for Tower V and W Falcon View	6.00	Completed
82	Prof. Ajay Kumar	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec- 19, Chandigarh	TPI work of Aggregate Capacity of 900K Wp Grid Connected Rooftop Power plant	3.44	Ongoing
83	Prof. Ajay Kumar	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec- 19, Chandigarh	TPI work of Aggregate Capacity of 816K Wp Grid Connected Rooftop Power plant	3.44	Ongoing
84	Prof. H.A.S. Sandhu	SDE Construction Sub Division No. 12, Sector - 17, Chandigarh	Consultancy work relating to Technical Opinion regarding the Feasibility and Viability for Widening of the exiting road	13.00	Completed
85	Prof. Kuldeep Kumar	M/s Sanjiv Oils & Fats, Village - Kahanpura, Amloh, Fatehgarh Sahib, Punjab	Proof Checking of Structural Design & Drawing of M.S. Tower Structure of Boilers	3.00	Completed

86	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec- 19, Chandigarh	TPI work of Aggregate Capacity of 225K Wp Grid Connected Rooftop Power plant	1.19	Ongoing
87	Prof. Kuldeep Kumar	M/s Lokinder Bansal & Associates, Shop No. 67, Jaitu, Faridkot, Punjab	Vetting of Structural Design and Drawings of GNA Axles Ltd.	1.05	Completed
88	Prof. Kuldeep Kumar	Manager (CE), FCI, Divisional Office, Panchkula, Haryana	Consultancy Work related to M-40 Mix Design for Improvement of Roads.	1.50	
89	Prof. Sarita Singla	M/s J.C. Technocrats Pvt. Ltd., SCF-9, Vikas Vihar, Ambala City	Proof Checking of Structural Design and Drawings of High-Level Bridge & Buttress Retaining Wall	1.50	Completed
90	Prof. Kuldeep Kumar	Executive Engineer, Srinagar, CPWD Srinagar	Vetting of Structure Drawings for Men Barrack at GC CRPF	1.38	Completed
91	Prof. Kuldeep Kumar	M/s LS Contractor, 1 Rojhan Designer Studio, Sector - 17 A, Chandigarh	Testing of Materials for Construction of Boundary Wall	1.25	Ongoing
92	Prof. Sarita Singla	M/s Bahl Builders Pvt. Ltd, Ludhiana C/o GM Projects CGEWHO Mohali	Mix Design M - 30 & M - 40 Grade for Construction of Residential Accommodation	1.00	Completed
93	Prof. S.K Singh	Executive Engineer, Civil Works Division, HVPNL, Panchkula	Regarding Soil Investigation for the Proposed 66 KV Sub Station	1.30	Completed
94	Prof. Pardeep Gupta	SDE Const. Sub Division No. 12, Sector -17 C, Chandigarh	Regarding Structural Assessment of Old Bridge HLB Khudda Lahora	3.00	Completed
95	Prof. Pardeep Gupta	SDE Const. Sub Division No. 10, Sector -9, Chandigarh	Testing of Madhya Marg Jn - 17 to Jn 43	3.50	Completed
96	Prof. Arshdeep Singh	Inspector, Anti-Corruption Bureau, Unit Panipat, Haryana	Testing of Samples of Cement Concrete Core	1.65	Completed
97	Prof. Arshdeep Singh	Inspector, Anti-Corruption Bureau, Unit Yamuna Nagar, Haryana	Testing of Samples of Cement Concrete Core	1.15	Completed
98	Prof. Kuldeep Kumar	Executive Engineer, CPWD, Sector 7B, Chandigarh	Vetting of Structural Design/Drawings of Office Building of Income Tax Department	1.20	Completed

99	Prof. Sarita Singla	Executive Engineer/CMD -1, HPGCL, Khedar, Hisar	Structural Health Assessment of Natural Draft Cooling Tower of Height 173 Mt.	2.61	Completed
100	Prof. Pardeep Gupta	SDE Const. Sub Division No. 12, Sector -17 C, Chandigarh	Regarding Conditional Survey of Road from Jn. No. 17 toward Jn. No. 15	5.50	Ongoing
101	Prof. T.S. Saggu	Punjab State Power Corporation Limited, B-I, Shakti Vihar, Patiala	Consultancy regarding Technical Specifications of 3 Phase Dry Type Transformers	2.00	Completed
102	Prof. T.S. Saggu	Punjab State Power Corporation Limited, B-I, Shakti Vihar, Patiala	Consultancy regarding Technical Specifications of Single-Phase Distribution Transformers	1.00	Completed
103	Prof. Umesh Sharma	M/s NKC Constructions Pvt. Ltd, Booth No. 53, Kitchlu Nagar, Ludhiana	Determination of Bitumen Content, Gradation and Thickness of BC	1.20	Completed
104	Prof. S.K. Verma	M/s Hipro Engineering Services, # 672, Industrial Plot, Mohali	Vetting of Steel Structure Truss Design of MS Pipe Line	1.00	Ongoing
105	Prof. Arshdeep Singh	SDE HSAM Board, Basement of Kisan Bhawan, Sector -14, Panchkula	Tests for Development of Ultra-Modern Apple, Fruit and Vegetable- Market	1.64	Ongoing
106	Prof. T.S. Saggu	Punjab State Power Corporation Limited, B-I, Shakti Vihar, Patiala	Consultancy regarding Technical Evaluation of Oil Type Distribution Transformers of above 500 kVA	1.00	Completed
107	Prof. Umesh Sharma	SDE HSAM Board, Basement of Kisan Bhawan, Sector -14, Panchkula	Tests for Development of Ultra-Modern Apple, Fruit and Vegetable- Market	3.00	Completed
108	Prof. Chander Kant	M/s Jindal Power Corporation, Plot No. 125, Industrial Area, Phase - 1, Chandigarh	Wind Tunnel Testing for High Mast Pole	4.27	Ongoing
109	Prof. Kuldeep Kumar	M/s Ankush Engineers & Contractors (Pvt.) Ltd, Kasauli, Solan, HP	Proof Checking of Structural Design/Drawings of various Bridges	1.10	Completed
110	Prof. S.K. Singh	Sub Divisional Engineer HSVP Sub Division No. VII, Panchkula	Soil Investigation and Design of RCC Road near Kaushalya Dam	4.19	
111	Prof. Arshdeep Singh	General Manager(E) Punjab State Cooperative Bank, SCO - 175, Sec - 34 A, Chandigarh	Structural Audit of Bank Staff Quarters in Sector - 30 A, Chandigarh	1.25	Completed

112	Prof. Kuldeep Kumar	M/s Campus Director, Baba Farid Vidyak Society, Bathinda, Punjab	Proof Checking of Structural Design/Drawings for Baba Farid College of Law, Engineering & Technology, Pharmacy and Multipurpose Hall	4.11	Completed
113	Prof. Manohar Singh	CEO, CREST Chandigarh, First Floor, Paryavaran Bhawan, Sec- 19, Chandigarh	TPI work of Aggregate Capacity of 501 K Wp Grid Connected Rooftop Power plant	1.53	Completed
114	Prof. Kuldeep Kumar	M/s Jindal Structural Consultants, M.C. Road, Zirakpur, Punjab	Vetting of Structure Design and Drawings of Showroom	1.00	Ongoing
115	Prof. Kuldeep Kumar	M/s C&E Consultancy, Shimla, Himachal Pradesh	Proof Checking of Structural Drawings and Design of Type II Quarter, New Ramp, Lift, and Staircase in IGMCI Shimla	1.00	Completed
116	Prof. Pardeep Gupta	SDE Const. Sub Division No. 12, Sector - 17, Chandigarh	Regarding Conditional Survey of Road from Bhaskar Chowk to Mullanpur Chowk	8.00	Completed
117	Prof. Kuldeep Kumar	M/s S. Kumar & Associates, B-33, 2nd Floor, Shivalik, New Delhi	Structure Vetting of Sheds & Buildings at RCF Kapurthala	1.83	Completed
118	Prof. Shakti Kumar	M/s Hydrotech Paryavaran (India) Pvt. Ltd., F- 31, Industrial Area, Ph- VIII, Mohali	Vetting of Design & Drawings for Punjab Water Supply and Sanitation Board at Jandiala Guru, Punjab	1.00	Completed
119	Prof. Umesh Sharma	Sub Divisional Engineer, Const. Sub Division No. 8, Chandigarh	Third Party Technical Post Audit Work for Construction of Proposed Multilevel Parking	28.32	Completed
120	Prof. Kuldeep Kumar	M/s Walia Creative Architects, Passy Road, Patiala	Vetting of Structural Drawings/Details for Hotel Building	1.25	Ongoing
121	Prof. Kuldeep Kumar	Sub Divisional Engineer, Const. Sub Division No. 6, Chandigarh	Third Party Technical Post Audit Work for the Extension of Kurukshetra Boys Hostel	19.20	Completed
122	Prof. Kuldeep Kumar	Manager (Civil), FCI, Divisional Office, Patiala, Punjab	Testing of Material for the Work related to Internal Repair of Roads	1.49	Ongoing
123	Prof. Manohar Singh	M/s Hiranmaya Energy Limited (HMEL) Plot No. XI -2 & 3, Saltlake, Kolkata	Audit of Electrical Protection Scheme	5.21	Completed

124	Prof. Kuldeep Kumar	Hospital Engineer (Civil -I), PGIMER, Chandigarh	Consultancy Services for Conducting Structural Audit and Non-Destructive Test for Building of Research Block A & B PGIMER	16.25	Ongoing
125	Prof. Shakti Kumar	M/s Hydrotech Paryavaran (India) Pvt. Ltd., F- 31, Industrial Area, Ph- VIII, Mohali	Vetting of Design & Drawings for Tripura Urban Development Authority of Design, Build and Operate of Sewage Treatment Plants	1.50	Ongoing
126	Prof. Kuldeep Kumar	Manager (Civil), FCI, Divisional Office, Patiala, Punjab	Testing of Cubes for the Work related to Internal Repair of Roads	1.32	Completed
127	Prof. Umesh Sharma	Sub Divisional Engineer, Const. Sub Division No. 8, Chandigarh	Technical Audit of 02 Nos. HL Bridges on NH - 05	4.00	Ongoing
128	Prof. Umesh Sharma	SDE Secretariat Sub Division Sector - 17, Chandigarh	Technical Post Audits of 03 Nos Construction of New Judges Houses	4.18	Ongoing
129	Prof. H.A.S. Sandhu	GM (Admin) Mahatma Gandhi State Institute of Public Administration Punjab	Two Day Training Program on Rover (CORS Supported) and Total Station for Government Officers	1.50	Completed
130	Prof. Umesh Sharma	SDE Secretariat Sub Division Sector - 17, Chandigarh	Testing of Material for the Work related to construction of 03 Nos Construction of New Judges Houses	7.38	Ongoing
131	Prof. S.K. Verma	Sub Divisional Engineer, Maintenance Sub Division No. 2, Chandigarh	Assessment of Structural Stability of Single-Story Rack/Portion of Additional Deluxe Building	1.50	Ongoing
132	Prof. Pardeep Gupta	Executive Engineer Const. Division - 1, PMDA, Panchkula	Regarding the Crust Design and other Measures for Improving the Riding Quality of various Sector Dividing /External Road	4.00	Ongoing
133	Prof. Sarita Singla	SDE, HSVP, Sub Division No. VI Panchkula, Haryana	Vetting of Structural Design Drawings of Construction of HL Bridge, 3 Nos Span	2.00	Ongoing
134	Prof. Sarita Singla	M/s Abhinav Infratech Pvt. Ltd, A/195-199, Street # 23, Chattarpur Enclave Ph. II, New Delhi	Vetting of Design of Two Overhead Water Tanks at Chandrapur (MH)	1.00	Ongoing

135	Prof. S.K. Verma	Sub Divisional Engineer, Const. Sub Division No. 6, Chandigarh	Third Party Technical Post Audit Work for proposed 4th CTU Bus Depot cum Workshop at Raipur Kalan, Industrial Area, Ph. III, Chandigarh	42.00	Ongoing
136	Prof. H.A.S. Sandhu	Regional Director, Central Pollution Control Board, Regional Directorate Chandigarh	Offer for Analysis of Satellite Imagery for Ascertaining the extent of Mining	2.10	Ongoing
137	Prof. Sarita Singla	Professor In-Charge (UWD), Guru Jambheshwar University of Science & Technology, Hisar	Inspection Work of Boundary Wall & Interlocking Concrete Paver Blocks Road in GJU S&T Hisar	1.00	Ongoing
138	Prof. Sarita Singla	SDE, HSVP, Sub Division No. V Panchkula, Haryana	Vetting of Structural Drawings for Channelization of Rainy Nallah	1.00	Ongoing
139	Prof. Sarita Singla	Executive Engineer Punjab Police Housing Corporation Ltd, Civil Division, Police Complex, Phase - VII, SAS Nagar, Mohali	Consultancy for Construction of Police Station Building	3.00	Ongoing
140	Prof. Umesh Sharma	SDE Construction Sub Division No. 2, Sector - 9, Chandigarh	Third Party Technical Post Audit Work for construction of 25 Nos. Porta Cabins at North Campus of IRB Complex Sarangpur	2.75	Ongoing
141	Prof. Arshdeep Singh	Police Station, Anti-Corruption Bureau, Hisar, Haryana	Testing of Samples for Special Checking for the Remodeling of Jandwala Canal	1.00	Ongoing
142	Prof. H.A.S. Sandhu	GM (Admin) Mahatma Gandhi State Institute of Public Administration Punjab	Two Day Training Program on Rover (CORS Supported) and Total Station for Government Officers	1.50	Ongoing
143	Prof. Kuldeep Kumar	Hindustan Petroleum Corporation Ltd. (HPCL), Bathinda, Punjab	Vetting of Structure Design & Drawings of HPCL Residential Housing Project	1.75	Ongoing
144	Prof. Sarita Singla	SE Civil Construction Circle, UHBVN, Panchkula	Providing of Structural Design of 11M & 9M high PCC Poles	4.00	Ongoing
145	Prof. Sarita Singla	DG Naval Projects, O/o of Brig DDG & CE,	Vetting of Design/Drawings and Corresponding Reports for Building	3.50	Ongoing

		Naval Base, Visakhapatnam			
146	Prof. Sarita Singla	M/s Janta Land Promoters Pvt. Ltd (JLPL) SCO - 39-42, Sec -82, Mohali	Consultancy for preparing Assessment Report for processing of Completion Certificate from GMADA	1.80	Ongoing
147	Prof. Sarita Singla	SDE Const. Sub Division No. 13, Chandigarh	Supply of Structural Drawings for the Construction Work IT Park Police Station	2.52	Ongoing
148	Prof. Kuldeep Kumar	M/s CU International Educational Trust, Vill-Gorinda Parsandan, Unnao, UP	Vetting of Structural Design/Drawings of Academic and Hostel Blocks of Chandigarh University, Unnao	16.36	Ongoing

सम्मान

डॉ. सोमनाथ को दी गई डॉक्टर ऑफ साइंस (ऑनोरिस कॉज़ा)

पेक ने पूर्व इसरो अध्यक्ष डॉ. एस. सोमनाथ को किया

सतीश धवन की स्मृति में स्मारक पट्टिका का किया अनावरण

जगमार्ग न्यूज

चंडीगढ़। पंजाब इंजीनियरिंग कॉलेज (डीमंड टू बी यूनिवर्सिटी), चंडीगढ़ ने एक भव्य समारोह में भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) के पूर्व अध्यक्ष और विख्यात वैज्ञानिक डॉ. एस. सोमनाथ को विज्ञान और प्रौद्योगिकी के क्षेत्र में उनके अद्वितीय योगदान के लिए



डॉ. सोमनाथ ने सतीश धवन को किया याद

पेक निदेशक प्रो. राजेश कुमार भाटिया ने डॉ. सोमनाथ का स्वागत करते हुए कहा कि यह संस्थान, जिसने डॉ. कल्पना चावला और डॉ. सतीश धवन जैसे महान वैज्ञानिकों को शिक्षा दी, के लिए अत्यंत गर्व की बात है कि वह भारत के अंतरिक्ष इतिहास को नई दिशा देने वाले महान

गणमान्य गरिमान को डॉक्टर ऑफ साइंस (ऑनोरिस कॉज़ा) दी गई, जिसे राजेश धवन से प्रदान किया गया।

POWERGRID, PEC



SHASHI PAL JAIN CHANDIGARH: Chief Secretary, UT Chandigarh, Shri Rajeev Verma, grand the MoU signing ceremony between Power Grid Corporation of India Limited (POWERGRID) and Punjab Engineering College (Deemed to be University), Chandigarh, as the Chief Guest.

डॉ. हरअमृत सिंह संधू एएससीई के अंतर्राष्ट्रीय विशिष्ट सेवा मेडल से सम्मानित

चंडीगढ़, लोकसत्ता। सिविल इंजीनियरों की वैश्विक संस्था दी अमेरिकन सोसाइटी ऑफ सिविल इंजीनियर्स (एएससीई) ने अपने प्रतिष्ठित विशिष्ट



सेवा मेडल - रीजन 10 के विजेताओं को घोषणा कर दी है। यह सम्मान उन प्रोफेशनल्स को दिया जाता है, जो सिविल इंजीनियरिंग के क्षेत्र में उल्लेखनीय सेवाएं देते हैं, और रीजन 10 में विश्वभर के लगभग 170 देशों के सदस्य शामिल हैं। इस साल भारत के लिए यह एक गर्व का क्षण है, क्योंकि पंजाब इंजीनियरिंग कॉलेज (पेक), चंडीगढ़ के सिविल इंजीनियरिंग विभाग के फैकल्टी सदस्य और एएससीई इंडिया सेक्शन के मौजूदा अध्यक्ष डॉ. हर अमृत सिंह संधू को यह सम्मान प्रदान किया गया है। डॉ. संधू को यह पुरस्कार एएससीई के मिशन को आगे बढ़ाने, सिविल

सरीरक ते मानसिक तनाव तें बचाओ लष्टी रोज़ करे योग आसतः प्रो. डाटोआ



करते रहें सटाइ मैथर।

21 जून (श्रीन): पंजाब का कालज (पेक) दिने 11वां इतिहास नाल मनाएआ

सैमन करवाए। एएस 'च' दैध-दैंध आसतः, साध लैट दीआ कसरत आदि रागीं सरीरक ते मानसिक तेंदुरुस्ती बटाए

हरियाली की ओर एक कदम: पेक ने मनाया वन महोत्सव 2025



चंडीगढ़ डा रमेश देहराज सम्पादक उजाला आज तक चंडीगढ़: 05 जुलाई 2025: पंजाब इंजीनियरिंग कॉलेज (डीमंड

जी ने, जो इस पहल के मुख्य प्रेरणास्रोत भी रहे। कार्यक्रम की शुरुआत उन्होंने अनेक पाम का पौधा लगाकर की, जिसमें पेक के

विभाग की अगुवाई पर पौधारोपण किया जा एक ही दिन में ज्यादा पौधे लगाना।

पेक में आईसीटी ट्रेनिंग प्रोग्राम का समापन डिजिटल स्किल्स से पुलिसिंग और गवर्नेंस मजबूती मिलेगी: प्रो. मंगले



पेक में ओरिएंटेशन सप्ताह हुआ संपन्न



पेक में ओरिएंटेशन सप्ताह के समापन पर मौजूद अतिथि। - स्नेह भाविक

चंडीगढ़। पंजाब इंजीनियरिंग कॉलेज ने वीकेंड बैच 2025-29 के लिए ओरिएंटेशन प्रोग्राम का आयोजन किया गया। यह एक सप्ताह तक चला। इसके समापन समारोह में छात्रों के बलबों और सोसाइटी की रंगारंग प्रस्तुति के साथ हुआ। इस मौके पर पद्मश्री राजेंद्र गुप्ता, चैयरमैन, बोर्ड ऑफ गवर्नर्स पीएचडी एवं रीसर्चएक टाइटल गप दे संबोधन

The Tribune

(20.06.2025)

Punjab Engineering College students bag ₹61L package

5% students in Software Development Engineering get placements



The National Institute of Punjab Engineering College (NPEC) has secured a package of ₹61 Lakh for its students.

In the recent tendering by Government of India, the Punjab Engineering College (PEC) has secured a package of ₹61 Lakh for its students. The package is for the Software Development Engineering (SDE) course. The package is for 5% of the students in the SDE course. The package is for the year 2025-26.

The package is for the Software Development Engineering (SDE) course. The package is for 5% of the students in the SDE course. The package is for the year 2025-26.

Dainik Bhaskar

(18.09.2025)

पेक की टीम सेमिकॉन इंडिया में हुई शामिल

दिल्ली में हुई सेमीकंडक्टर कॉन्फ्रेंस में 48 देशों के प्रतिनिधि पहुंचे

एजुकेशनरिपोर्टर | चंडीगढ़

पंजाब इंजीनियरिंग कॉलेज (डीमड टू बी यूनिवर्सिटी) की टीम ने नई दिल्ली में आयोजित देश की सबसे बड़ी सेमीकंडक्टर कॉन्फ्रेंस सेमिकॉन इंडिया 2025 में भाग लिया। यह आयोजन 2 से 4 सितंबर तक यशोभूमि (इंडिया इंटरनेशनल कन्वेंशन एंड एक्सपोजे सेंटर) में हुआ। पीईसी से प्रो. अरुण कुमार सिंह (हेड, इलेक्ट्रॉनिक्स एंड कम्युनिकेशन), प्रो. संजीव कुमार (हेड, फिजिक्स), प्रो. संदीप कुमार (फिजिक्स डिपार्टमेंट), साथ ही पीजी और डॉक्टोरल स्टूडेंट्स ने प्रतिनिधित्व किया। कॉन्फ्रेंस का उद्घाटन प्रधानमंत्री नरेंद्र मोदी ने किया।



(आईएसएम), मिनिस्ट्री ऑफ इलेक्ट्रॉनिक्स एंड आईटी (मैटी) और सेमी ने मिलकर किया। इसमें 350 से ज्यादा कंपनियों और 48 देशों के डेलीगेट्स ने हिस्सा लिया और ग्लोबल टेक्नोलॉजी शोकेस पेश किया। कॉन्फ्रेंस में डिजाइन, फेब्रिकेशन, डिस्ट्रीब्यूशन, पैकेजिंग और आरएंडडी जैसे अहम

Industry-Academia Wk: PEC student get exposure to pollution-free tech

TIMES NEWS NETWORK

Chandigarh: The third day of the Industry-Academia Expert Lecture Week at Punjab Engineering College (Deemed to be University), Chandigarh, brought together experts from diverse fields who shared insights with stu-

technology, and civil engineering, reflecting the institute's aim of exposing students to real-world challenges and opportunities.

The first session featured Amit Singh, senior programme manager at the Wadhwa-

highlighted the role of innovation in shaping business. Singh explained how artificial intelligence can support entrepreneurs in analysing markets and scaling solutions. In the second session, the department of chemis-

पेक में भी कंप्यूटर साइंस में हाईएस्ट रैकिंग पर हुआ दाखिला

एरोस्पेस रहा दूसरे नंबर पर, अब तक छह राउंड की काउंसलिंग हुई पूरी

चंडीगढ़, 17 जुलाई (रश्मि हंस): 17512 व अदर स्टेट की 10498 रही यह कटऑफ छठे राउंड की

(08.08.2025)

पेक ने बीआईएस के साथ एमओयू पर किए हस्ताक्षर

मुम्बई पर वर्कशॉप आयोजित कर कोर्स और रिसर्च से जुड़ने की प्रक्रिया भी बनाए रखने का प्रयास किया।



Times of India 28.09.2025

PEC starts talk on sustainable tech for healthcare



The seminar drew participation from students, faculty and researchers from CRICK institutes

TIMES NEWS NETWORK

Chandigarh: PEC (Deemed to be University) held a seminar on emerging sustainable technologies for healthcare on Friday. It was conducted as part of SSR activities under the DST-PURSE grant received by PEC.

The seminar featured talks by experts from medical and scientific research fields. Dr Sidharth Sharma, orthopaedic surgeon at PRIMER

their clinical advantages and durability. He also pointed to the need for biocompatible alternatives that could reduce medical waste and environmental impact, along with the role of real-time sensors in monitoring fracture healing. Dr Kavushik Ghosh, scientist F at INST Mohali, highlighted the use of 3D materials, particularly graphene, in healthcare. He explained its application in real-time sensors for respiratory (disease)

PEC, MCM students donate ₹1-L, ration for flood-affected families in Punjab

CHANDIGARH : The National Service Scheme (NSS) and National Cadet Corps (NCC)

over to the mission for flood-affected families. Students of Mehr Chand Mahajan (MCM) DAV College for Women, Sector 36, also organised a voluntary help drive and collected essential supplies including paracetamol tablets, cotton

पेक ने इसरो के पूर्व अध्यक्ष डॉ. सोमनाथ को दी डॉक्टर ऑफ साइंस की उपाधि

डॉ. एस सोमनाथ ने उद्योग और अकादमिक जगत के बीच सहयोग की आवश्यकता पर बल दिया संवाद न्यूज एजेंसी

चंडीगढ़। भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) के पूर्व अध्यक्ष डॉ. एस. सोमनाथ सोमवार को पंजाब इंजीनियरिंग कॉलेज पहुंचे। उनके सम्मान में संस्थान में एक विशेष समारोह का आयोजन किया गया। डॉ. एस सोमनाथ को अंतरिक्ष विज्ञान एवं प्रौद्योगिकी के क्षेत्र में उनके विशेष योगदान के लिए संस्थान की ओर से डॉक्टर ऑफ साइंस (ऑनोरेस कांजा) की उपाधि प्रदान की गई। यह कार्यक्रम



पेक में आयोजित फेलिसिटेशन सोमनी में संबोधित करते इसरो के पूर्व फॉर्मर चैयरमैन डॉ. एस सोमनाथ। स्रोत: पेक



XV. EVENTS DURING 2024-25

Vigilance Awareness Week 2024

Chandigarh, 28th October 2024:

Punjab Engineering College (Deemed to be University), Chandigarh, marked the beginning of Vigilance Awareness Week - 2024 by taking the Integrity Pledge today, on 28th October 2024. The pledge was led by Prof. Rajesh Kumar Bhatia, Director, PEC, and was joined by Col. R.M. Joshi, Registrar, along with all the Heads of the Departments and the faculty members.

The Vigilance Awareness Week - 2024 centers around the theme, "Culture of Integrity for Nation's Prosperity," to be observed from 28th October to 3rd November 2024. This pledge reaffirmed PEC's commitment to uphold the highest standards of honesty, transparency, and integrity, encouraging vigilance and ethical practices among the faculty and staff.

To further promote the spirit of integrity, a signature campaign has been initiated across various locations on the campus, allowing participants to express their commitment to a corruption-free environment.

The event concluded with a vote of thanks delivered by Prof. Balwinder Singh, who acknowledged the collective efforts of all staff members in this essential initiative against corruption.



E-Summit 2025



E-Summit 2025, held on 22–23 March, was a vibrant celebration of entrepreneurial spirit and innovation. The event brought together students, start-ups, and industry experts in an engaging environment designed to inspire creativity and collaboration. Attendees explored a variety of competitions and interactive games that tested ingenuity and strategic thinking, while the startup expo showcased pioneering ideas and business solutions. Insightful speaker sessions offered valuable perspectives on entrepreneurship, market trends, and leadership.

With its blend of learning, networking, and experiential activities, E-Summit 2025 provided a stimulating platform for nurturing ideas, fostering innovation, and igniting the entrepreneurial drive among participants.

Spectrum 2025



Spectrum, organized by the Art and Photography Club (APC), was a captivating celebration of creativity and visual expression. The event brought together students with a passion for art and photography, providing them a platform to showcase their talent across a variety of competitions. From innovative artwork to striking photographic compositions, participants demonstrated skill, imagination, and aesthetic sensibility. Spectrum encouraged experimentation with different styles and techniques while fostering a sense of community among budding artists. The event not only highlighted individual creativity but also inspired appreciation for visual arts, making it a vibrant and enriching experience that celebrated the artistic spirit within the college.

Trivium XVI



Trivium XVI, organized by the Speaking and Debating Club (SAASC), was an engaging Asian Parliamentary debate competition that brought together articulate minds from diverse backgrounds. The event provided a platform for students to demonstrate critical thinking, persuasive communication, and analytical skills in a competitive yet intellectually stimulating environment. Participants engaged in thought-provoking debates on contemporary issues, honing their public speaking abilities and sharpening their reasoning. Trivium XVI not only celebrated the art of debate but also fostered collaboration, respect for differing perspectives, and confidence in expression. The event stood as a testament to the college's commitment to nurturing eloquence, intellect, and leadership among its students.

TED TALK



The **TED Talk**, organized by the TEDxPEC Society, was an inspiring platform for the exchange of ideas and thought-provoking insights. The event brought together speakers from diverse fields, each sharing unique perspectives on innovation, personal growth, social impact, and emerging trends. Attendees were encouraged to engage with new concepts, broaden their horizons, and reflect on ideas that challenge conventional thinking. Through compelling storytelling and impactful presentations, the TED Talk fostered curiosity, creativity, and meaningful dialogue within the college community. It served as a catalyst for learning and inspiration, leaving participants motivated to explore, innovate, and contribute positively to society.

ANNUAL SPORTS MEET 2024



The **Sports Meet** was a vibrant celebration of athleticism, teamwork, and sportsmanship, bringing together students across various disciplines to compete and showcase their physical abilities. The event featured a wide range of athletic competitions, including track and field events, team sports, and other engaging challenges that tested endurance, agility, and strategy. Beyond competition, the Sports Meet fostered camaraderie, mutual encouragement, and the spirit of fair play among participants. Spectators and athletes alike experienced an atmosphere of energy and enthusiasm, making the event both exhilarating and inspiring. It stood as a testament to the college's commitment to promoting health, fitness, and holistic development alongside academic excellence.

ASTRONOMIX 2025



Astronomix, organized by the Astronomy and Space Physics Society (ASPS), was an engaging event that celebrated curiosity and learning about space exploration. The program offered participants a unique blend of competitions and speaker sessions, encouraging both knowledge acquisition and creative problem-solving. Attendees explored the wonders of the cosmos through thought-provoking challenges, interactive activities, and insights from experts in astronomy and space sciences. The event fostered a spirit of inquiry, inspiring students to delve deeper into scientific concepts while appreciating the vastness and complexity of the universe. Astronomix provided an enriching platform to cultivate passion, critical thinking, and innovation in the field of space studies.

CDGC Open House 2025



PEC-CDGC hosted the 16th Open House 2025 with great enthusiasm, celebrating innovation and engineering excellence. The event invited school students from the tricity to experience the dynamic world of engineering through an immersive, guided campus tour. Participants explored PEC's cutting-edge laboratories, advanced

research centers, and state-of-the-art facilities across all departments, gaining firsthand insight into the creative and technological pursuits of PEC students. The Open House served as an inspiring platform that fostered curiosity, innovation, and a deeper understanding of the engineering ecosystem.

Bhangra-Theque, PECFEST 2024



Vibrant energy, infectious beats, and unmatched spirit filled the air as the Punjabi Editorial Board of PEC set the stage ablaze with their electrifying Bhangra performance at Bhangra Theque, PECFEST 2025. Dressed in

colorful traditional attire, the performers showcased the rich cultural heritage of Punjab through their powerful moves, rhythmic footwork, and boundless enthusiasm.

Blood Donation Camp 2025



The National Service Scheme (NSS) cell of Punjab Engineering in collaboration with Post Graduate Institute of Medical Education and Research, Chandigarh organized a Blood Donation Camp. This noble initiative aimed to raise awareness about the importance of blood donation, contributing to saving lives. A total of 100+ units of blood was collected, reflecting the spirit and community service amongst the various staff members, students, blood-donors and other volunteers of PEC.

GATE 2025 Achievements



Another milestone achievement for Punjab Engineering College (Deemed to be University), Chandigarh as three students of Aerospace Engineering Department had attained outstanding ranks in GATE Examination of 2025. Dipak Jana, Mehak Panwar and Yatish Taneja achieved remarkable All India Ranks (AIR) of 74 AE, 197 AE and 266 AE respectively, showcasing their dedication and academic excellence.

PEC Teams Bag ₹2 Lakh at SIH-2024



Students of **PEC** presented solutions for the challenging problem statements for the **7th edition of Smart India Hackathon-2024**. **03 teams from PEC** tackled problem statements in a **36-hour competition**, with solutions evaluated by jury members. Student teams led by **Yashita Bansal** and team members **Kabir Arora, Bhavya Pratap Singh, Arnav Bansal, Aryan Kaul** and **Dushyant Bhardwaj** implemented “**An Interactive Job and Internship Platform for Technical Education Department, Govt. of Rajasthan**”. Second team led by **Arnav Vikas Garg** along with team members **Garima Beniwal, Harmanmeet Kaur, Ansh Ravi, Lovish Garg, Aaditya Singh Tomar** developed “**an Artificial Intelligence (AI) based model for electricity demand projection including peak demand projection for Delhi Power system**”. Each Problem statement offered a prize of **INR 1 lakh per team**.

PEC Student Bhavtegh Singh Gill Shines as National Shooting Champion



Mr. Bhavtegh Singh Gill, a fourth-year Aerospace Engineering student, had won 3 Gold Medals and 1 Silver Medal as being the National Champion at the 67th National Shooting (Skeet Men) Championship-2024. The

prestigious event was held from 11th December to 25th December 2024 at the Dr. Karni Singh Shooting Range, New Delhi. Earlier this year, Mr. Bhavtegh Singh Gill represented India on the global stage at the ISSF Junior World Championship held in Lima, Peru, from 27th September to 7th December 2024. Prior to this, he also competed at the ISSF Junior World Cup Shotgun in Porpetto, Italy, securing a Silver Medal in the Skeet Men Individual event. His relentless dedication and talent have also brought glory to Punjab Engineering College at the FISU World University Championship in November 2024, where he was crowned World University Champion.

PEC Student Angad Ji Saggu Secures AIR 162 in UPSC Civil Services



Another proud moment for Punjab Engineering College (Deemed to be University), Chandigarh, as its recent alumnus **Mr. Angad Ji Saggu** has secured an distinguished **All India Rank (AIR) of 162 in UPSC Civil Service Examination 2024**. A graduate of the **Mechanical Engineering** batch of **2018–2022**, Angad Ji Saggu demonstrated academic excellence and all-round development throughout his four-year journey at PEC.

PEC Students performs in Flash Mob in anticipation of PECFEST



The Punjab Engineering College (Deemed to be University), Chandigarh campus came alive as PECFEST 2024, the annual techno-cultural fest, was inaugurated with a theme of “Retrograde Rebellion,” symbolizing a unique fusion of heritage and modernity. The event was marked by high energy and enthusiasm from students, faculty, alumni, and distinguished guests, making it a memorable celebration of PEC’s legacy and vibrant community.



PUNJAB ENGINEERING COLLEGE

गंजाब अभियांत्रिकी महाविद्यालय चंडीगढ़

(DEEMED TO BE UNIVERSITY)

Sector 12, Chandigarh -160012, India

tel fax: +91-172-2748197, 2745175

telephone : + 91-172-2753051, 2753055

Website: www.pec.ac.in