

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

Program Name : Computer Science and Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 11590	Date of Submission : 13-02-2026

PART A- Profile of the Institute

A1. Name of the Institute: Punjab Engineering College (Deemed to be University)	
Year of Establishment : 1921	Location of the Institute: Chandigarh
A2. Institute Address: PEC UNIVERSITY OF TECHNOLOGY	
City: Chandigarh	State: Chandigarh
Pin Code: 160012	Website: www.pec.ac.in
Email: REGISTRAR@PEC.AC.IN	Phone No (with STD Code): 0172-2753055
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Chandigarh
State : Chandigarh	Pin Code: 160012
A4. Type of the Institution: Deemed University	
A5. Ownership Status: Government Aided	

A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: **12**
- No. of PG programs: **13**

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Aerospace Engineering	1962	--	Aerospace Engineering
2	Engineering & Technology	PG	Aerospace Engineering	2022	--	Aerospace Engineering
3	Engineering & Technology	UG	Civil Engineering	1921	--	Civil Engineering
4	Engineering & Technology	PG	Computer Science & Information Security	2010	--	Cyber Security
5	Engineering & Technology	PG	Computer Science and Engineering	2001	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering	1988	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2023	--	Computer Science and Engineering
8	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2022	--	Computer Science and Engineering

9	Engineering & Technology	PG	Electrical Energy Systems	2022	2025	Electrical Engineering
10	Engineering & Technology	PG	Electrical Engineering	1957	--	Electrical Engineering
11	Engineering & Technology	UG	Electrical Engineering	1947	--	Electrical Engineering
12	Engineering & Technology	UG	Electronics & Communication Engineering	1963	--	Electronics and Communication Engineering
13	Engineering & Technology	UG	Electronics Engineering (VLSI Design and Technology)	2023	--	Electronics and Communication Engineering
14	Engineering & Technology	PG	Environmental Engineering	1989	--	Civil Engineering
15	Engineering & Technology	PG	Industrial Engineering and Management	1995	--	Production and Industrial Engineering
16	Engineering & Technology	PG	Material Science and Engineering	1963	--	Metallurgical and Materials Engineering
17	Engineering & Technology	UG	Mathematics & Computing	2024	--	Mathematics
18	Engineering & Technology	PG	Mechanical Engineering	1957	--	Mechanical Engineering
19	Engineering & Technology	UG	Mechanical Engineering	1921	--	Mechanical Engineering
20	Engineering & Technology	UG	Metallurgical & Materials Engineering	1963	--	Metallurgical and Materials Engineering
21	Engineering & Technology	UG	Production & Industrial Engineering	1967	--	Production and Industrial Engineering
22	Engineering & Technology	PG	Structural Engineering	1964	--	Civil Engineering
23	Engineering & Technology	PG	Transportation Engineering	1957	--	Civil Engineering
24	Engineering & Technology	PG	VLSI Design	2012	--	Electronics and Communication Engineering
25	Engineering & Technology	PG	Water Resource Engineering	1964	2023	Civil Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Electrical Engineering	No	Electrical Engineering	UG
Production and Industrial Engineering	No	Production & Industrial Engineering	UG
Computer Science and Engineering	No	Computer Science and Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Computer Science and Engineering	UG	1988 / --	120	No	NA	120	1988	1-2519066781	Granted accreditation for 3 years for the period (specify period)	2022	2025	3	4

List of the Allied Departments/Cluster and Programs:

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Ms.(Dr) Divya Bansal
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	120	120	120	121	121	121	108
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	0
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	6	11	15	7	7	4	17
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	126	131	135	128	128	125	125

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio $[(N1/N)*100]$
2025-26 (CAY)	120	120	6	105.00
2024-25 (CAYm1)	120	120	11	109.17
2023-24 (CAYm2)	120	120	15	112.50

$$\text{Average } [(ER1 + ER2 + ER3) / 3] = 108.89 \approx 100$$

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*=(No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	129.00	125.00	127.00
B=No. of students who graduated from the program in the stipulated course duration	123.00	120.00	120.00
Success Rate (SR)= (B/A) * 100	95.35	96.00	94.49

$$\text{Average SR of three batches } ((SR_1 + SR_2 + SR_3)/3): 95.28$$

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.71	7.40	7.15
Y=Total no. of successful students	130.00	134.00	126.00
Z=Total no. of students appeared in the examination	130.00	134.00	126.00
API $[X*(Y/Z)]$	7.71	7.40	7.15

$$\text{Average API} [(AP1+AP2+AP3)/3] : 7.42$$

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.40	7.36	7.48
Y=Total no. of successful students	134.00	126.00	127.00
Z=Total no. of students appeared in the examination	134.00	126.00	127.00
API $[X * (Y/Z)]$	7.40	7.36	7.48

$$\text{Average API } [(AP1 + AP2 + AP3)/3] : 7.41$$

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
----------------------	-----------------	-----------------	-----------------

X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.66	7.83	7.88
Y=Total no. of successful students	124.00	123.00	121.00
Z=Total no. of students appeared in the examination	126.00	127.00	121.00
API [X*(Y/Z)]:	7.54	7.58	7.88

Average API [(AP1 + AP2 + AP3)/3] : 7.67

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	123.00	121.00	121.00
X=No. of students placed	114.00	96.00	119.00
Y=No. of students admitted to higher studies	1.00	2.00	2.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	93.50	80.99	100.00

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 91.50 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments (Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr.S.K Sofat	XXXXXXXX53D	Ph.D	NIT, Kurukshetra	Information Security, Computer Vision & Image Processing, Social Media Analytics	03/08/1994	31.6	Assistant Professor	Professor	08/07/2005	Regular	Yes		No
2	Dr. Shailendra Singh	XXXXXXXX05N	Ph.D	Punjabi University, Patiala	Bioinformatics, Artificial Intelligence, Machine Learning, Soft Computing, Speech Technology	09/08/1997	28.6	Lecturer	Professor	11/02/2013	Regular	Yes		No

3	Ms.(Dr) Divya Bansal	XXXXXXXX03B	Ph.D	PEC, Chandigarh	AI/ ML for Cyber Security, Security in Distributed systems/ edge/ cyber physical system	24/01/2006	20	Assistant Professor	Professor	01/03/2016	Regular	Yes		Yes
4	Dr. Rajesh Kumar Bhatia	XXXXXXXX59E	Ph.D	Thapar Univesity, Patiala	SOFTWARE TESTING, SOFTWARE CLONE DETECTION, SOFTWARE ENGINEERING, SOFTWARE COMPONENT RETRIEVAL, INFO	03/04/2013	12.10	Professor	Professor	03/04/2013	Regular	Yes		No
5	Dr. Trilok Chand	XXXXXXXX34A	Ph.D	Panjab University, Chandigarh	Computer Networks, Wireless Sensor Networks, Mobile and Vehicular Adhoc Networks, Computational Inte	09/09/1998	27.5	Lecturer	Professor	22/09/2011	Regular	Yes		No
6	Dr.Padmavati	XXXXXXXX09G	Ph.D	PEC, Chandigarh	Wireless sensor networks, Deep Learning, Machine Learning	24/01/2006	20	Assistant Professor	Associate Professor	24/01/2019	Regular	Yes		No
7	Dr. Shilpa	XXXXXXXX86H	Ph.D	PEC, Chandigarh	Software Engineering, Machine learning; GNN, Recommender System	20/03/2013	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Dr. Sudesh Rani	XXXXXXXX07F	Ph.D	PEC, Chandigarh	Ad Hoc Networks, Wireless Networks	22/04/2013	12.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Rupali Verma	XXXXXXXX41A	Ph.D	Panjab University, Chandigarh	Cryptography, Data Analytics, Artificial Intelligence	31/03/2006	19.10	Lecturer	Assistant Professor		Regular	Yes		No
10	Dr. Alka Jindal	XXXXXXXX07K	Ph.D	Panjab University, Chandigarh	Image Processing, Security , Database Systems	28/03/2006	19.10	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Ms. (Dr.) Poonam Saini	XXXXXXXX64B	Ph.D	National Institute of Technology, Kurukshetra	Cloud Computing, Distributed Computing and BlockChain Technologies, Machine Learning and Big Data An	19/03/2013	12.10	Assistant Professor	Associate Professor	28/04/2023	Regular	Yes		No

12	Dr. Sandeep Kumar Harit	XXXXXXXX62M	Ph.D	Motilal Nehru National Institute of Technology, Allahabad	Network Security, Mobile Communication, ITS, Adhoc N/W, Computer Networks	27/05/2013	12.8	Assistant Professor	Associate Professor	06/08/2018	Regular	Yes		No
13	Sh. Mayank Gupta	XXXXXXXX87L	M.Tech	IIT, Bombay	Data Analysis, Machine Learning, Deep Learning	15/12/2017	8.2	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Dr. Manish Kumar	XXXXXXXX96B	Ph.D	PEC, Chandigarh	Information Retrieval, Web Crawling, Machine Learning	01/06/2018	7.8	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Ms. Amandeep Kaur	XXXXXXXX61P	M.Tech	Central University of Punjab, Bhatinda	Digital Image Processing, Machine Learning	04/06/2018	7.8	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Dr. Kanu Goel	XXXXXXXX10C	Ph.D	Thapar Univesity, Patiala	Machine Learning, Natural Language Processing	28/03/2023	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr. Mamta	XXXXXXXX32A	Ph.D	NIT, Kurukshetra	Information security and Applied cryptography	29/03/2023	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Dr. Nitin Kumar	XXXXXXXX81A	Ph.D	JNU, New Delhi	Biometrics, Pattern Recognition, Machine Learning, Salient Object Detention	09/05/2023	2.9	Associate Professor	Associate Professor	09/05/2023	Regular	Yes		No
19	Dr. Satnam Kaur	XXXXXXXX43B	Ph.D	Dr. B R Ambedkar NIT Jalandhar	IoT, Smart Cities, Wireless Sensors Network, Optimization and software Engineering	31/07/2023	2.6	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. Ramteke Mamta Ganpat	XXXXXXXX54C	Ph.D	PU, Chandigarh	Digital Image Processing	31/07/2023	2.6	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
21	Dr. Suraj Srivastava	XXXXXXXX88Q	Ph.D	IKGPTU Jalandhar	WSN, Machine Learning, AI	31/07/2023	2.6	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
22	Dr. Ashpreet	XXXXXXXX64G	Ph.D	NIT, Kurukshetra	Image Processing, Soft Computing, Deep Learning, Machine Learning	31/07/2023	2.6	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
23	Dr. Atul Kumar	XXXXXXXX16N	Ph.D	NIT, Kurukshetra	Security, Image processing, Machine Learning, IOT	09/01/2024	2.1	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
24	Ms. Renu Verma	XXXXXXXX70J	Ph.D	NIT, Jalandhar	Software Engineering	13/08/2024	1.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	19/12/2025	No

25	Dr. Manpreet Singh	XXXXXXXX62M	Ph.D	NIT, Kurukshetra	Machine Learning	12/08/2024	1.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	24/09/2025	No
26	Sh. Syed Tufael Nabi	XXXXXXXX85J	M.Tech	Central University of Punjab, Bhatinda	AI, ML, Deep Learning, Pattern Recognition and Image Processing	12/08/2024	1.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	25/04/2025	No
27	Dr. Sabrina	XXXXXXXX98M	Ph.D	PU, Chandigarh	Medical Image Analysis, Machine Learning & Deep Learning	09/08/2024	1.6	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
28	Dr. Akashdeep Kaur	XXXXXXXX60K	Ph.D	Thapar Univesity, Patiala	Cloud Computing, Osmotic Computing	09/01/2025	1.1	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
29	Dr. Abhilasha Rangra	XXXXXXXX35J	Ph.D	Jaypee University, Solan	Social Internet of things: their trustworthiness, Node Rank and Embeddings Management	01/08/2023	1.2	Assistant Professor	Assistant Professor		Contractual Fulltime	No	18/10/2024	No
30	Dr. Armaan Garg	XXXXXXXX46H	Ph.D	IIT, Ropar	Robotics, Autonomous Agents, Multi-agent systems, Reinforcement Learning	08/01/2024	2.1	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/12/2024	No
31	Ms.Jasleen Kaur	XXXXXXXX27H	M.Tech	Thapar Univesity, Patiala	Blockchain Technologies, Data Science and Machine Learning	22/08/2023	2.5	Assistant Professor	Assistant Professor		Contractual Parttime	No	25/10/2024	No
32	Ms.Palak Goyal	XXXXXXXX79E	M.Tech	PEC, Chandigarh	Deep Learning, Machine Learning & Image Processing	08/01/2024	2.1	Assistant Professor	Assistant Professor		Contractual Parttime	No	18/06/2025	No
33	Ms. Neeraj	XXXXXXXX38A	M.Tech	BPSMV, Khanpur, Kalan, Sonapat	Blockchain, IOT, Cloud Computing	19/08/2025	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (SFR) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department3 No. of PG Programs in the Department1

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	60	60	60
UG1.C	60	60	0
UG1.D	60	0	0
UG1: Computer Science and Engineering (Data Science)	180	120	60
UG2.B	30	30	0
UG2.C	30	0	0
UG2.D	0	0	0
UG2: Computer Science and Engineering (Artificial Intelligence)	60	30	0
UG3.B	120	120	120
UG3.C	120	120	120
UG3.D	120	120	120
UG3: Computer Science and Engineering	360	360	360
PG1.A	25	25	25
PG1.B	25	25	25
PG1: Computer Science and Engineering	50	50	50
DS=Total no. of students in all UG and PG programs in the Department	650	560	470
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 650	S2= 560	S3= 470
DF=Total no. of faculty members in the Department	26	26	23
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 26	F2= 26	F3= 23
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 27.08	SFR2= 23.33	SFR3= 22.38
Average SFR for 3 years	SFR= 24.26		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 * [(10X + 4Y)/RF]$ where

- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF]
2025-26(CAY)	23	3	32.00	18.91
2024-25(CAYm1)	23	3	27.00	22.41
2023-24(CAYm2)	20	3	23.00	23.04

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = 1/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
- RF2= No. of Associate Professors required = 2/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- RF3= No. of Assistant Professors required = 6/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	5.00	7.00	4.00	21.00	10.00
2024-25	3.00	5.00	6.00	4.00	18.00	10.00
2023-24	2.00	5.00	5.00	4.00	15.00	10.00
Average	RF1=2.67	AF1=5.00	RF2=6.00	AF2=4.00	RF2=18.00	AF2=10.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

(CAYm2)

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	19	33	9
2	No. of peer reviewed conference papers published	22	19	8

3	No. of books/book chapters published	1	12	5
---	--------------------------------------	---	----	---

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Trilok Chand, Dr. Padmavati, Dr Sudesh		CSE	Development of Machine Learning based Prediction Models for Automated Detection of Laryngeal Cancers using Measures of Aerodynamics, Voice and Acoustic Voice Quality Index (AVQI)	Indian Council of Medical Research (ICMR)	2024-2027 (Ongoing)	25.57
Dr. Rajesh Bhatia, Dr. Manish Kumar		CSE	CHAKSHU Wikipedia for Blind and Visually Impaired	Department of Science and Technology (DST), New Delhi	2024 – 2026 (Ongoing)	34.97
Dr. Rajesh Bhatia, Dr. Manish Kumar		CSE	National S&T survey for Higher Education Sector	Department of Science and Technology (DST), New Delhi	2024 – 2025 (Ongoing)	29.92
Dr. Divya Bansal, Dr. Sanjeev Sofat, Dr. Mamta Dabra, Dr. Satnam Kaur		CSE	Machine Learning Anomaly and Fraud Detection Systems for Next-Generation Telecom Networks	DoT through Telecom Centres of Excellence India	2024-2027 (Ongoing)	112.26
						Amount received (Rs.):202.72

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Divya Dhawan (ECE)	Dr. Padmavati	CSE	Predictive Maintenance and efficiency analysis of Solar Panels	Department of Science & Technology & Renewable Energy, Chandigarh Administration, Chandigarh	2023-2024 (Completed)	0.50
Dr. Rajesh Bhatia		CSE	Developing Low-Cost teaching Aids and Promoting Sustainable Waste Management- Swachh Bharat Paradigms	Department of Science and Technology (DST), New Delhi	2023-2024 (Completed)	19.90
Dr. Padmavati	Prof. Mayank Gupta	CSE	Development of software for FDR data analysis using machine learning techniques for health monitoring of MLH Aero-engines	3BRD Air Force, Chandigarh	2023-2024 (Completed)	20.00
Dr. Poonam Saini		CSE	Artificial Intelligence for Safety-Critical Applications in Defense	TBRL, DRDO	2023-2024 (Completed)	147.00
Dr. Aastha Takkar Kapila (PGIMER)	Prof. Amandeep Kaur and Dr. Manish Kumar	PGIMER Chandigarh	Digitally monitored customized weight loss intervention in patients of idiopathic intracranial hypertension (IIH)	Indian Council of Medical Research (ICMR)	2023-2026 (Ongoing)	27.62
						Amount received (Rs.):215.02

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Rajesh Kumar Bhatia		CSE	Early Warning system for Flood Prediction in Indian River Basins	Ministry of Electronics and Information Technology (MeiTY)	2019-2023 (Completed)	13.56
Dr. Divya Bansal	Dr. Sanjeev Sofat	CSRC	Framework for Generating Actionable Intelligence from Cyber Space Computational Techniques & Analysis	Department of Science and Technology, New Delhi	2019-2022	69.90
Dr. Divya Bansal	Dr. Manvjeet Kaur	CSRC	Theme Coordination Project	Department of Science and Technology, New Delhi	2019-2022	73.48
						Amount received (Rs.):156.94

Total Amount (Lacs) Received for the Past 3 Years: 574.68

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Divya Bansal	Dr. Sushil	CSRC	Advance Executive Programme - Certificate Course for UT Police Chandigarh	UT Police	3 Months	8.00
						Amount received (Rs.):8.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Divya Bansal	NA	CSRC	Development of digital content for the company on Digital Technology, Social platforms and the spread of misinformation and disinformation	Logically.AI	2 years	3.25
						Amount received (Rs.):3.25

Total amount (Lacs) received for the past 3 years: 11.25

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Nitin Kumar	Single sample face recognition with applications in terrorist identification	2024-2026	4.00	3.90	2 SCIE journals and 2 conference publications
Satnam Kaur	Strengthening Maritime Security	2024-2026	4.00	3.00	2 research papers
			Amount received (Rs.): 8.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
			Amount received (Rs.): 0		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
			Amount received (Rs.): 0		

Total amount (Lacs) received for the past 3 years : 8.00

PART D: Laboratory Infrastructure in the Department (Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Networking and Cyber-Physical Systems Lab 301, NAB	25	HP Server on DGS HPC Server Thin Clients	Computer Netv	Mr. Rahul	Computer Attendant	10+2
2	Data Structures and Computational Systems Lab 303, NAB	25	Linux based server, Thin Clients, HP printer	Data Structure:	Mr. Rahul	Computer Attendant	10+2
3	Distributed and High-Performance Computing Lab 304, NAB	25	Dell System :09 Canon printer: 01 Vertiv 3KVA UPS	IoT, Soft Com	Ms. Sunita Rani	Junior Lab Technician	Graduate
4	AI-driven Analytics and Machine Learning Lab 306, NAB	25	NVIDIA DGX A100 (Personal AI Super Computer) Dell Precision 5820 Tower workstations HP Z600	SE, DL, ATDS	Mr. Surjit S. Banga	Technician Category – IV	ITI

5	Advanced Research and Innovation lab 307, NAB	25	HP Laser Jet P1007 Printers	PhD Research	Ms. Rimpi	Senior Lab Attendant	Masters in Sociology
6	Computing Project Studio 401, NAB	25	Apple iMac Workstations	ADSA, AAI	Mr. Surjit S. Banga	Technician Category – IV	ITI
7	Collab Lab 402, NAB	25	Apple iMac Workstations Emerson UPS 6KVA	Minor and Majr	Mr. Surjit S. Banga	Technician Category – IV	ITI
8	Computer Vision and Biometrics Lab CL14, Old IT Block	25	Apple Desktops, HP Desktops, Vertiv 3KVA UPS	CV, DIP, DBM:	Mr. Bimaljeet Singh	Senior Lab Attendant	10+2
9	Programing and Problem-Solving Lab CL13, Old IT Block	25	HP PC LENOVO PC Vertiv 3KVA UPS	STMWN, Objec	Mr. Bimaljeet Singh	Senior Lab Attendant	10+2
10	Advanced Systems and Software Engineering Lab CL5, CSRC B	25	Apple iMAC Pro Server Apple iMac Workstation iMac Workstation Vertiv 3KVA UPS	AIDA, OS, DL,	Ms. Sunita Rani	Junior Lab Technician	Graduate
11	Data Science and Computing Lab Old SPIC Block	120	Dell OptiPlex 7450 HP Compaq Elite 8300 Micro Tower HP Pro 3090 MT Desktop	ITCP, DL, DSM	Ms. Rimpi	Senior Lab Attendant	Masters in Sociology

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Networking and Cyber-Physical Systems Lab 301, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
2	Data Structures and Computational Systems Lab 303, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
3	Distributed and High-Performance Computing Lab 304, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
4	AI-driven Analytics and Machine Learning Lab 306, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
5	Advanced Research and Innovation lab 307, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.

6	Computing Project Studio 401, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
7	Collab Lab 402, NAB	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
8	Computer Vision and Biometrics Lab CL14, Old IT Block	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
9	Programming and Problem-Solving Lab CL13, Old IT Block	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
10	Advanced Systems and Software Engineering Lab CL5, CSRC B	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.
11	Data Science and Computing Lab Old SPIC Block	1. Strict prohibition of eating, drinking, or using mobile phones inside labs. 2. Immediate reporting of accidents, spills, or damaged equipment to lab supervisors. 3. Installation of fire extinguishers at accessible locations. 4. Proper grounding of electrical equipment. 5. Regular inspection and maintenance of wiring and lab instruments. 6. Well-equipped first aid kits are available in each lab. 7. Antivirus and firewall protection for system security. 8. Regular data backup and cybersecurity measures. 9. Adequate ventilation to prevent system overheating.

D3. Project Laboratory/Research Laboratory

Cyber Security Research Centre (CSRC)

The **Cyber Security Research Centre** has been established at PEC in collaboration with Chandigarh Administration and NASSCOM with an initial funding of Rs 3 crores. The centre has been set up with the mission to encourage, promote, facilitate and execute interdisciplinary research in areas of Information Security. The Cyber Security Research Centre has been established with the primary focus to conduct applied Research & Development on cyber threats and countermeasures, secure multi-level information sharing, resilient command and control network architectures, social media and data analytics.

The Centre also aims to run educational programmes and perform outreach activities and contribute towards framing of standards and guidelines, policies, metrics and practices to protect our nation's information and communication systems. The centre closely collaborates with Industry, Government, Academia and other International Forums to foster research in the area. Drawing on the strengths from Computer Science & Engineering, the Center 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 research Centre engages itself in carrying out real time studies to collect data, conduct surveys and research, which contribute towards understanding of the problems and issues affecting users. The aim is to create a technology rich environment conducive to constructive discussions and evolving thoughts, which will lead to innovative ideas in unwiring and digitizing the world securely at affordable costs.

Advanced Research and Innovation Lab (ARIL)

The Advanced Research and Innovation Lab focuses on cutting-edge research, emerging technologies, and experimental development. It supports faculty, researchers, and students working on advanced topics such as artificial intelligence, data science, cybersecurity, robotics, IoT, and other next-generation computing fields. The lab typically provides high-performance computing resources, research tools, and collaboration opportunities for innovation-driven projects, publications, and industry partnerships.

Computing Project Studio

The Computing Project Studio is a hands-on development space designed for building and implementing computing projects. It supports software development, application design and system prototyping. Students use this studio to apply theoretical knowledge to real-world problems through coding, testing, debugging, and deploying solutions. The studio encourages teamwork, agile development practices, and project-based learning.

Collab Lab (Collaboration Lab)

The Collab Lab is a collaborative workspace that promotes teamwork, interdisciplinary projects, and creative problem-solving. It is equipped with modern communication tools, flexible seating, brainstorming boards, and digital presentation systems. The lab is designed to facilitate group discussions, innovation workshops, hackathons, and collaborative research between students, faculty, and industry partners.

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2023-24(CAYm2)	120	6	10	0	133

2024-25(CAYm1)	120	6	11	0	147
2025-26(CAY)	120	6	8	0	107

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	350	301.67	439	388.73	660.00	535.18	386.64	360.33
Library	80	38.81	206	183.37	250	133.09	280	278.52
Laboratory equipment	2132.16	341.91	656.90	136.54	930.00	108.54	519	327.94
Teaching and non-teaching staff salary	6520	5436.32	6290	6243.95	6860.00	5836.31	5798.31	5695.81
Outreach Programs	0	0	0	0	0	0	0	0
R&D	100	41.41	80	56.37	300	0	1	0.48
Training, Placement and Industry linkage	35	29.56	30	13.22	25	26.82	32	20.85
SDGs	0	0	0	0	0	0	0	0
Entrepreneurship	8	6.71	5	3.59	6	3.95	25	4.71
Others, specify	6098	4337.49	6043.96	5260.24	5211.08	4558.45	5413.62	5001.57
Total	15323.16	10533.88	13750.86	12286.01	14242.08	11202.34	12455.57	11690.21

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	450	0	3.90	0	20	0	18	0
Software	0	0	0	0	0	0	0	0
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	19	2.18	20.42	20.42	19	2.79	16	1.22

R & D	0	0	0	0	0	0	0	0
Industrial Training, Industry expert, Internship	10.20	0.63	3.30	2.45	2.00	1.84	4.18	0.24
Miscellaneous Expenses*	3	2.65	2.50	1.29	2.00	1.28	4	0.90
Total	482.20	5.46	30.12	24.16	43.00	5.91	42.18	2.36