

ORIENTATION OF BATCH OF FALL 2024

WELCOME ON BOARD!

Congratulations! You have been admitted to a program of your choice.

HISTORY OF FCIT				
FACULTY OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY (FCIT)				Year
Department of Computer Science	Department of Software Engineering	Department of Information Technology	Department of Data Science	2021
PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY (PUCIT)				2000
DEPARTMENT OF COMPUTER SCIENCE				1991
CENTRE OF COMPUTER SCIENCE				1988

QUICK FACTS ABOUT FCIT	
QS Subject Ranking 2024: 451 – 500	Full-time Faculty: 64 PhD Faculty: 42 Teacher Student Ratio: 31.25
Unique Applicants: 10,000+ Acceptance Rate: 4.5% Student Body: ~2,000	Publications: 521+ Patents: 4 Books: 10
Student Societies: 8 Campus Events: 44 in year 2023	Alumni: 11500+
Departments: 4 Covered Area (SQFT): 150,000 New Campus: 60,000 Old Campus: 90,000	Undergraduate Programs: 4 Graduate Programs: 6
Computer at New Campus: 200+ Old Campus: 300+ Student to Computer Ratio: ~3.5	Semester Fee (PKR): 75,000 (Morning) 135,000 (Self-support) Student Financial Support: 252 Million Year 2018 – 2023 Scholarships: 1 in 3
Books: 13000+ New Campus: 4,500+ Old Campus: 8,500+ Books to Student Ratio: ~6.5	Average Starting Salary (PKR): 125,000

ADVICE TO FRESHERS IN COMPUTER SCIENCE

Discipline your self to persistently work hard

Absolutely, diving into computer science can be exciting and challenging. Here's some advice for freshers in the field:

Master the Fundamentals: Focus on building a strong foundation in core areas such as algorithms, data structures, and computer systems. These concepts are crucial for understanding more advanced topics and will help you solve problems more effectively.

1. **Hands-On Practice:** Theory is important, but practice is where you truly learn. Work on coding projects, contribute to open-source projects, or participate in coding challenges and hackathons to apply what you've learned and build a portfolio.
2. **Learn Multiple Programming Languages:** While it's beneficial to become proficient in one language, having experience with multiple languages can give you a broader perspective and make you more versatile. Start with one language, then branch out to others as you progress.
3. **Understand the Tools:** Familiarize yourself with development tools and environments, such as version control systems (like Git), debugging tools, and integrated development environments (IDEs). These tools are essential for modern software development.
4. **Focus on Problem-Solving Skills:** Computer science is not just about writing code, but also about solving problems. Practice solving problems through platforms like LeetCode, HackerRank, or CodeSignal to sharpen your problem-solving and analytical skills.
5. **Stay Curious and Utilize University Resources for Keep Learning:** The tech field evolves rapidly, so staying current with new technologies, frameworks, and best practices is crucial. Follow industry news, read technical blogs, and take online courses to keep your skills up-to-date. Take advantage of the resources available at FCIT, such as the library, computer labs, and online databases. These can provide additional learning materials and tools that will aid your studies.
6. **Seek Help and Collaborate:** Don't hesitate to ask for help when you're stuck. Join study groups, participate in forums, and collaborate with peers. Learning from others can provide new insights and accelerate your growth.
7. **Develop Soft Skills:** While technical skills are crucial, soft skills such as communication, teamwork, and problem-solving are equally important. Participate in group projects, presentations, and workshops to build these skills. Being able to clearly explain your ideas and solutions is important, whether you're writing documentation, presenting to a team, or discussing a problem with colleagues. Good communication skills can set you apart.
8. **Build a Network:** Connect with professors, professionals, and peers in the field. FCIT boasts a team of knowledgeable professors and researchers. Don't hesitate to seek their guidance and mentorship. Networking can open doors to internships, job opportunities, and mentorship that can be invaluable early in your career.
9. **Take Care of Yourself and Enjoy the Journey:** Balancing your studies with personal well-being is essential. Make sure to manage your time effectively, take breaks, and engage in activities that help you relax and recharge. Finally, make sure to enjoy your time at FCIT. University is not just about studying but also about growing as an individual. Make the most of the opportunities available to you and create memorable well-rounded experiences.
10. **Explore Different Areas:** Computer science is a broad field with various specializations like Internet-of-things (IoT), web development, machine learning, cybersecurity, and more. Don't be afraid to explore different areas to find what you're most passionate about.
11. **Prepare for the Job Market:** Start building your resume early, seek internships, and work on projects that showcase your skills. The more practical experience you have, the better prepared you'll be for job applications and interviews. Attend career fairs, workshops on resume writing, and interview preparation sessions offered by FCIT.

Embrace the journey, and remember that learning is a continuous process. Good luck!

ORGANOGRAM			
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BS COMPUTER SCIENCE		
Web: www.pucit.edu.pk/bs-computer-science/		
Accredited by National Computing Education Accreditation Council (NCEAC) Higher Education Commission (HEC) of Pakistan Web: www.nceac.org.pk		
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GOALS OF THE PROGRAM		
An ideal graduate should have the following skills and attributes		
<ul style="list-style-type: none"> • Core Computer Science Knowledge • Software Development Skills 	<ul style="list-style-type: none"> • Professional and ethical responsibility • Life-long learning • Problem Solving Skills 	

<ul style="list-style-type: none"> Mathematical and Theoretical Understanding 	<ul style="list-style-type: none"> Effective Communication Graduate studies and industry readiness
<ul style="list-style-type: none"> Research and Innovation 	

DEGREE REQUIREMENTS

<ul style="list-style-type: none"> Total Credit Hours: 134 Minimum Degree Time: 4 years, 8 Semesters Graduating CGPA: 2.0 / 4.0, approximately 65% marks 	Credit Hour Theory course: One (1) contact-hour per week Lab course: Three (3) contact-hour per week
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CURRICULUM National Computing Education Accreditation Council (NCEAC) Curriculum 2023 Web: www.pucit.edu.pk/approved-curriculum/	Code	Category	Courses	Credit Hours
	MD	Math Deficiency	2	6* (6*, 0) (non-credited)
	CC	Computing Core	19	46 (30, 16)
	DC	Computer Science Core	6	18 (13, 5)
	EC	Computer Science Elective	7	21 (14, 7)
	MS	Mathematics & Supporting Courses	4	12 (12, 0)
	GE	General Education Courses	12	30 (28, 2)
	UE	Elective Supporting Courses	1	3 (3, 0)
	HQ	Quran Translation	8	4 (4, 0)
	Total:			59

LIST OF COURSES

Semester – I

Sr. No.	Code		Pre-Requisite	Domain	Cr. Hrs.	
1.	MD-001	Math Deficiency – I		MD	3*	(3, 0)*
2.	MS-251	Probability & Statistics		MS	3	(3, 0)
3.	GE-160	Applications of Information & Communication Technologies		GE	3	(2, 1)
4.	GE-169	Applied Physics		GE	3	(2, 1)
5.	GE-167	Discrete Structures		GE	3	(3, 0)
6.	HQ-001	Quran Translation – I		HQ	0.5	(0.5, 0)
7.	GE-190	Functional English		GE	3	3, 0)
Credit Hours (Semester – I)					15.5	(13.5, 2)

SCHOLARSHIPS

Web: <https://pucit.edu.pk/scholarships/>

ACADEMIC CALENDAR

Web: <https://pucit.edu.pk/academic-calender/>

TIME TABLE

Web: www.pucit.edu.pk/timetable/

SEMESTER RULES AND REGULATIONS
Web: www.w.pucit.edu.pk/academic-regulations/

SEMESTER RULES AND REGULATIONS

Web: www.pucit.edu.pk/academic-regulations/

SECTION 9: CLASS ATTENDANCE

1. A student must have attended at least 75% of the classes held in a course in order to be allowed to sit in the mid term and final examination. In the case of short attendance up to the mid term, the student will be allowed provisionally to appear in the mid term exam but he will have to meet the minimum attendance requirement till final term exam. The concerned HoD can award 5% relaxation in attendance on student's request. The student availing this attendance relaxation, will have to pay absent fine amounting Rs. 2,000/- per short attendance course with maximum absent fine of Rs. 5,000/- per semester.
2. There is maximum 25% absent allowance (not in a stretch). At any stage in a semester (2nd semester and onwards) if a student has availed this maximum absent allowance, then the student will be awarded FW grade in low-attendance courses. The student having class attendance less than 75% in a particular course will be required to repeat the course when it is offered again. The student will be awarded grade FW i.e. forced withdrawal and will not be counted towards calculation of GPA/CGPA. The students will pay the course(s) fee and the examination fee while repeating the FW courses with junior sessions to complete all the formal requirements of the degree.
3. In case of Hajj / maternity, the maximum 25% absent allowance can be availed in a stretch with the prior approval of HoD.

SECTION 10: EVALUATION SYSTEM

1. The teacher is responsible for the evaluation of work/performance of the students of his class and for the award of grades to them on the basis of such evaluation:
2. The number and nature of tests and assignments depends on the nature of course. However, in case of taught course there will be at least one home assignment, sessional works and two examinations (Mid and final term examinations of each semester) in each course with the Weightage as under:-

A.	Sessional activities	25%
B.	Mid term examination	35%
C.	Final term examination	40%

It is mandatory to appear in both examination (i.e. Mid term and Final term) and also to complete the sessional activities. To pass a course, student must obtain 'D' grade (50% marks) cumulative in mid term, final term examinations and sessional activities.

3. The Mid term examination shall be held after eight weeks of the commencement of the semester. The final examination shall be held at the end of 17th week i.e. during 18th week. The Mid term and Final term examinations date sheet will be notified by the Chairman / Director / Principal.
4. In view of the weightage for the various examinations the minimum duration of the papers will be as follows:
 - i. Mid term Examination: One and half hour
 - ii. Final term Examination: Two hours
5. Home assignments shall be submitted to the concerned teacher as scheduled by the teacher.
6. There shall be no choice in questions in the mid term and final term examination papers.
7. Examination should be held on consecutive days excluding holidays. The schedule of papers showing to the students shall be displayed along with the examination date sheet. This paper showing activity should be performed within one week according to the schedule announced along with the examination date sheet.
8. The scripts of each activity (as mentioned in A, B and C of point (2) above) shall be shown to the students by the concerned teachers. After paper showing, the scripts will be immediately collected back from the students. The scripts of the mid-term and final-term examinations will be submitted to the department exam or concerned office after the result declaration.

SECTION 11: GRADING SYSTEM

1. Letter grading should only be used for representing the individual courses and not for semester Grade Point Average (GPA) or Cumulative Grade Point Average (CGPA).
2. Equivalence in numerical grades, letter grades and grade points is as follows:

Percent Marks	Letter Grade	Grade Points
85 & above	A	4.00
80 - 84	A-	3.70
75 - 79	B+	3.30
70 - 74	B	3.00
65 - 69	B-	2.70
61 - 64	C+	2.30
58 - 60	C	2.00
55 - 57	C-	1.70
50 - 54	D	1.00
Below 50 or Absent	F	0.00
Withdrawal	W	Not counted in GPA / CGPA calculation and not shown in FT

Forced Withdrawal	FW	Not counted in GPA / CGPA calculation, however will be reflected in the FT
Incomplete	I	Incomplete grade will be awarded in case of absence from exam. But this must be completed (special exam) within one month of the conduct of exam, otherwise 0 marks will be awarded in the in such exam.

3. Maximum possible GPA is 4.00.
4. For the award of 4 / 5 years Bachelors degree, the minimum required CGPA is 2.00.
5. A fraction of mark in a course is to be counted as '1' mark e.g. 64.1 or 64.9 is to be shown as 65.
6. Letter Grade and Grade Point for a course will be awarded according to the above table.

Example:

Examination	Weightage	Marks Obtained
Mid term	35%	20.0
Assignment	25%	16.4
Final Examination	40%	35.0
Total:	100%	71.4

The score will be rounded to 72.

Letter Grade in this case will be 'B'

Grade Point in this case will be 3.00

7. In order to calculate the GPA, multiply the GP of the course with its Credit Hours to obtain total grade points. Add up the grade points of all the courses to obtain Cumulative Grade Points and divide by the total number of Credit Hours of that semester to get the GPA for the semester.

RE-REGISTRATION OF F AND D GRADE COURSES

The students with F and D grade courses will have to re-register with juniors (if required conditions are satisfied) for improvement of grades.

Example No. 1:

In case of equal credit hour courses:

Course No.	Credit Hours	Grade Point		Weighted Grade Points
531	3	3.00	(3.00 x 3 =)	9
534	3	2.30	(2.30 x 3 =)	6.9

547	3	4.00	(4.00 x 3 =)	12
550	3	3.70	(3.70 x 3 =)	11.1
571	3	Zero	(0.00 x 3 =)	0
572	3	1.70	(1.70 x 3 =)	5.1
Total	18			44.1

$$\text{GPA} = \frac{44.1}{18} = 2.45$$

Example No. 2:

In case of unequal credit hour courses:

Course No.	Credit Hours	Grade Point		Weighted Grade Points
510	4	3.00	(3.00 x 4 =)	12.00
511	3	3.70	(3.70 x 3 =)	11.10
512	4	2.30	(2.30 x 4 =)	9.20
550	2	4.0	(4.00 x 2 =)	8.00
575	2	2.0	(2.00 x 2 =)	4.00
Total	15			44.3

$$\text{Grade Point average} = \frac{44.3}{15} = 2.94$$

Course with 'F' will be counted as 'Zero' Grade Point for calculation of semester Grade Point Average.

Calculation of CGPA

The CGPA will be calculated as the weighted average of all the courses the students has been enrolled and evaluated. The credit hours of a course will be used as weight for this purpose.

$$CGPA = \frac{\sum_{i=1}^n c_i * GP_i}{\sum_{i=1}^n c_i}$$

where c_i is credits of the i_{th} course and GP_i is grade point obtained in i_{th} course and n is total subject studied in degree e.g.,

Semester	Course Code	Credit Hours (CH)	Obtained Marks	GP	CH x GP	Weighted GPs
I	103	3	67	2.7	(3 x 2.7 =)	8.1
	107	3	98	4.0	(3 x 4.0 =)	12
	105	3	76	3.3	(3 x 3.3 =)	9.9

	102	3	89	4.0	(3 x 4.0 =)	12
	108	4	60	2.0	(4 x 2.0 =)	8
II	201	3	55	1.7	(3 x 1.7 =)	5.1
	202	3	63	2.3	(3 x 2.3 =)	6.9
	206	3	78	3.3	(3 x 3.3 =)	9.9
	207	2	65	2.7	(2 x 2.7 =)	5.4
	205	4	85	4.0	(4 x 4.0 =)	16
Total		31				93.3

$$\text{CGPA} = \frac{93.3}{31} = 3.01$$

Overall CGPA should be directly computed from the individual courses GPs and not from the GPAs of semester.

SECTION 12: RULES FOR PROMOTION

4-years Bachelors

	Promotion	Probation	Dropout
1st Semester	GPA > 2.00	1.50 <= GPA < 2.00	GPA < 1.50
2nd Semester onwards	CGPA > 2.00	1.70 <= CGPA < 2.00	CGPA < 1.70

- It will be mandatory for the students to obtain a minimum Cumulative Grade Point average (CGPA) of 2.00 to be promoted to the next semester.
- In case a student is able to obtain GPA of 1.70 or more but less than 2.00 except first semester where GPA of 1.50 or more but less than 2.0, he/she will be promoted to the next semester on probation (1st Probation). If the student does not achieve desired CGPA 2.0 but obtain CGPA greater than or equal to 1.7 then he will be on 2nd which is the last probation. The candidate, who fails to secure 1.50 GPA in the first semester or 1.70 CGPA in the subsequent semester/s shall stand automatically dropped from the rolls.
- A student has to obtain CGPA 2.00 in the last semester for the award of degree.
- A student will be required to repeat Grade F (mandatory) and Grade D (mandatory if CGPA is less than minimum requirement) courses of previous semesters with immediate junior session/s. If the student is still in his/her regular session then the student will have to pay the courses tuition fee (calculated proportionally on the basis of credit hours) in addition to the semester full examination fee. If the student is on extension then the student will have to pay the full semester fee and dues to repeat the courses (D or F grade).

5. A student, who completes all the courses and has not been required to repeat any course(s), obtains CGPA less than 2.00 at the end of last semester degree program may be allowed to repeat maximum 16 credit hour courses (D or C-), in order to improve the CGPA so as to obtain the minimum of 2.00 CGPA failing which he / she shall not be awarded degree and removed from the rolls of the Department / Centre/ Institute / College.
6. In case a student repeats the course(s) for the improvement of grade(s) which he/ she has already taken, the better of the two grades of the course(s) will be counted for CGPA calculations.

SECTION 13: PROBATION

The promotion of a student on probation will be allowed twice in all the programs given at Section-1 (a, b, c). If a student in the first semester obtains a GPA less than 2.0 and greater than or equal to 1.5 will be considered on probation but in the subsequent semesters the student will be considered on probation if he / she scores CGPA less than 2.0 and greater than or equal to 1.70. In case a student does not achieve minimum desired CGPA. 2.0 in any semester after availing opportunity of two probations, he / she shall be dropped from the rolls of the Department / Centre / Institute / College / School and cannot be re-admitted in any case by any of the Department / Centre / Institute / College / School at the same level program.

Note: Improvement of grades in a semester with probation does not remove the probation count.

DRESS CODE

Web: www.pucit.edu.pk/academic-regulations/

The following dress code for students **must be observed on both campuses at all times:**

DRESS CODE FOR MALE STUDENTS

- Shorts of any kind must not be part of the attire.
- Clothes should not be skin-tight.
- Loose-neck shirts are prohibited.
- Low-hung (hanging below waistline) pants are not allowed.
- Sunglasses or p-caps must not be worn in classrooms.
- Slippers are not allowed.
- Shirts with pictures or text printed on front or back are not allowed. However, shirts with small logos or emblems are acceptable.

DRESS CODE FOR FEMALE STUDENTS

- Dupatta must be part of the attire.
- Shirts should not be over-fitted, or see-through.
- Shirt length should at least knee-length or longer.
- Length of sleeves must be three quarters or more.
- Necklines must be non-revealing.
- Fitted trousers, choori-dar pajamas, or tights must be accompanied by calf-length (half-way between knees and ankles) or longer length shirts without slits.
- Trousers must be ankle-length or longer.
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PENALTY FOR DRESS CODE VIOLATION

- For a first offense, the student will be called by the respective dress code supervisor and will be given a verbal warning.
- For a second offense, the student will be fined an amount of Rs. 3000.
- For a third offense, the case will be forwarded to DC.

USEFUL CONTACT INFORMATION

Web: www.pucit.edu.pk

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