



University of Central Punjab
The centre of your future

Faculty of
**Information Technology &
Computer Science**



2022-23

www.ucp.edu.pk

INTRODUCTION

The **Faculty of Information Technology & Computer Science (FOITCS)**, established in 2002, has a trustworthy reputation and partnerships in education. With a world-class faculty of 16 PhDs, impactful research publications, and strong alumni, FOITCS has undoubtedly achieved the materialization of its vision to make Pakistan a leader in Computer Science and Software Development. The research and development are further underpinned by Game Centre, Centre for Applied Data Analytics, Centre for Learning Design and Robotics Centre, collectively adding another dimension to learning. The curricula taught at FOITCS are geared towards the high-tech industry and current trends, offering well-balanced theoretical and practical courses. The dynamic field at FOITCS provides an array of opportunities to our students to see them excelling as data scientists, data analysts, computer service technicians, cybersecurity specialists and software developers. Each career opportunity requires a distinctive set of skills and personal traits as almost all IT jobs depend on strong technical knowledge, which FOITCS at UCP imparts in its students.



BS Computer Science

Explore the breadths of theoretical foundations of information and computing and choose a practical approach to computation and its applications as a profession.

Eligibility Criteria: At least 50% marks in F.Sc. Pre-Engineering/Pre-Medical/ICS or equivalent. All applicants are required to pass the UCP admission test. Pre-Medical students must study and pass additional 2 courses of Mathematics in 1st year.

BS Computer Science-Post ADP

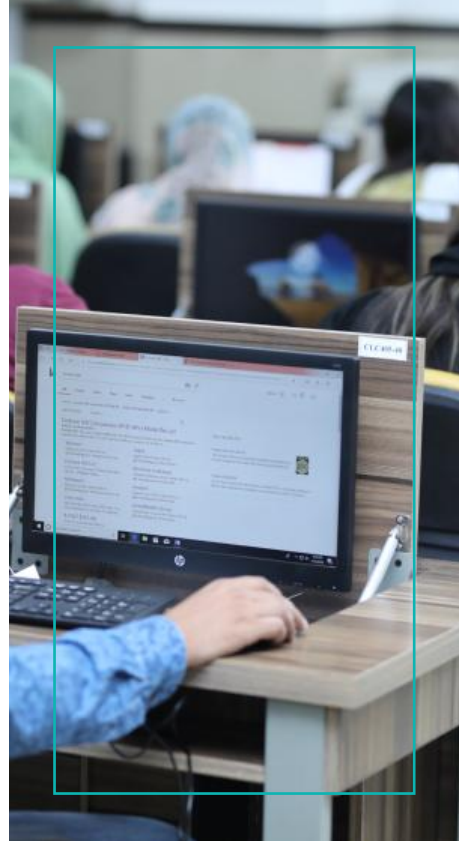
Gain additional theoretical foundations of computing to top-up qualifications and extend skillset or continue pursuing an area of interest.

Eligibility Criteria: At least 50% marks in F.Sc. Pre-Engineering/Pre-Medical/ICS or equivalent, and at least 45% marks (in ADP annual system) or 2.00/4.00 CGPA in ADP Computer Science or equivalent. All applicants are required to pass the UCP admission test.

BS Software Engineering

Explore the breadths of theoretical foundations of Software Engineering and choose a practical approach to software designing and development as a profession.

Eligibility Criteria: At least 50% marks in F.Sc. Pre-Engineering/Pre-Medical/ICS or equivalent. All applicants are required to pass the UCP admission test. Pre-Medical students must study and pass additional 2 courses of Mathematics in 1st year.



BS Data Science

This course seeks to address the chronic shortage of suitably qualified data science and artificial intelligence specialists and, at the same time, prepare the student for a fulfilling and varied career in this fast-growing IT, financial, healthcare, automotive and real estate sector.

Eligibility Criteria: At least 50% marks in F.Sc. Pre-Engineering/Pre-Medical/ICS or equivalent. All applicants are required to pass the UCP admission test. Pre-Medical students must study and pass additional 2 courses of Mathematics in 1st year.

BS Artificial Intelligence

The Bachelor of Artificial Intelligence (AI) will equip students with the knowledge and skills necessary to design, develop, and evolve software solutions that harness the latest advances in artificial intelligence (AI). The BS AI program enables students to get hands-on experience, developing AI-driven software solutions with the support of state-of-the-art research labs under the guidance of world-class faculty. We transform students into leaders who accept challenges, solve complex problems, fulfill industry expectations and yield a cross-cutting research environment. The curriculum of the BS(AI) program includes coursework in computing, mathematics, automated reasoning, computational modeling, machine learning, vision, artificial intelligence, case studies, knowledge representation, reasoning, artificial neural networks, and natural language processing. The BS AI program enables our students to solve problems in society, the healthcare domain, agriculture, business, better governance, transportation, e-commerce, and education.

Eligibility Criteria: At least 50% marks in F.Sc. Pre-Engineering/Pre-Medical/ICS or equivalent. All applicants are required to pass the UCP admission test. Pre-Medical students must study and pass additional 2 courses of Mathematics in 1st year.

MS Computer Science

Gain in-depth knowledge of the theoretical foundations of computing and embrace impactful scientific and research-oriented opportunities as professionals and academics

Eligibility Criteria: At least 2.00/4.00 CGPA or 50% marks from an annual system in BS Computer Science/Software Engineering/Information Technology or equivalent. All applicants are required to pass the UCP admission test and interview.

MS Data Science

MS in Data Science will provide you with a thorough grounding in the analysis and use of large data sets and the experience of conducting a substantial development or research project focused on Data Science techniques, preparing you for responsible positions in the Big Data and IT industries.

Eligibility Criteria: At least 2.00/4.00 CGPA or 50% marks from an annual system in BS in Computer Science/Information Technology/Software Engineering or equivalent. All applicants are required to pass the UCP admission test and interview.

PhD Computer Science

Systematically discover novel methodical processes and models of theoretical foundations of computing and then structure, express and contribute these to the body of knowledge.

Eligibility Criteria: At least 3.00/4.00 CGPA in MS Computer Science or equivalent. All applicants are required to pass the UCP admission test and interview.

Fee Structure of Faculty of Information Technology & Computer Science

Programme	Total Credit Hours	Admission Fee (PKR)	Per Credit Hour Fee (PKR)	Total Fee (PKR)
BS Computer Science	133	25,000	12,000	1,621,000
BS Computer Science-Post ADP	76	25,000	12,000	937,000
MS Computer Science	30	25,000	16,000	505,000
PhD Computer Science	48	25,000	8,000	409,000
BS Software Engineering	133	25,000	11,000	1,488,000
BS Artificial Intelligence	133	25,000	8,800	1,195,400
BS Data Science	133	25,000	8,800	1,195,400
MS Data Science	30	25,000	10,000	325,000

UCP Merit and Other Scholarships

The current scholarship policy and maintenance criteria is available on our official website <https://www.ucp.edu.pk/ucp-scholarships/> . Currently, we have 9 different types of scholarship to offer to new and on-going students.

Sr. No	Scholarship Type	Programmes Applicable
1	Merit Scholarship	All undergraduate and graduate programmes
2	PGC Scholarship	All undergraduate programmes
3	UCP Alumni Scholarship	All graduate programmes (MS/M.Phil.)
4	Legacy Scholarship	All undergraduate and graduate programmes
5	Scholarship for Differently-abled students	All undergraduate and graduate programmes
6	Need-Based Scholarship a) Financial Need Scholarship (At the time of admission) b) Scholarship for Students with Deceased Parents/Guardian (Only for existing students)	Only for undergraduate programmes

7	Talent-Based Scholarship	All undergraduate and graduate programmes
8	Sports Scholarship	All undergraduate and graduate programmes
9	Faculty/Staff Development Scholarship	Only for MS/M.Phil. programmes

The details of available scholarships are as follows:

Merit Scholarship for Undergraduate Students		
Academic Marks (Intermediate)	Scholarship	Continuation CGPA
85% Marks	100%	3.85 or higher
80% Marks	75%	3.70 or higher
75% Marks	50%	3.50 or higher
70% Marks	25%	3.25 or higher
N/A at the time of admission	12.5%	3.00 or higher
Merit Scholarship for Graduate Students (MS/M.Phil. Programmes)		
CGPA	Scholarship	Continuation CGPA
3.80 CGPA in 16 years degree	75%	3.90 or higher
3.60 CGPA in 16 years degree	50%	From 3.75 to 3.89
N/A at the time of admission	25%	From 3.50 to 3.74
PGC Scholarship for Undergraduate Students		
Category	Available Scholarship	Continuation CGPA
PGC Students (At the time of admission)	25%	3.15 or higher
N/A at the time of admission	15%	3.00 or higher
UCP Alumni Scholarship for Graduate Programmes		
CGPA	Available Scholarship	Continuation CGPA
3.50 CGPA (50% admission fee shall be charged)	50%	3.50 or higher
3.00 CGPA (50% admission fee shall be charged)	25%	From 3.00 to 3.49
N/A at the time of admission	12.5%	From 2.50 to 2.99
Other Available Scholarships for Undergraduate Programmes		
Category	Scholarship	Continuation CGPA
Need-based Scholarship(case evaluation by the committee)	25-100%	3.00 or higher
Scholarship for students with Deceased Parent/ Guardian (Applicable only for current students)	50%	3.00 or higher

Talent-based Scholarship Case evaluation by the committee)	25-100%	2.00 or higher
Sports Scholarship (Case evaluation by the committee)	Full or Partial	2.00 or higher
Legacy Scholarship (For siblings of UCP existing students or children of UCP graduates)	25%	3.00 or higher
Scholarship for Differently-abled Students (official disability certificate by the Govt. of Pakistan & committee assessment)	25-100%	2.50 or higher
Other Available Scholarships for Graduate Programmes		
Category	Category	Continuation CGPA
Talent-based Scholarship Case evaluation by the committee)	25-100%	2.50 or higher
Sports Scholarship (Case evaluation by the committee)	Full or Partial	2.00 or higher
Legacy Scholarship (For siblings of UCP existing students or children of UCP graduates)	25%	3.00 or higher
Scholarship for Differently-abled Students (official disability certificate by the Govt. of Pakistan & committee assessment)	25-75%	2.50 or higher
Faculty/Staff Development Scholarship (only for MS/M.Phil. students)-4 years satisfactory service	50%	3.00 or higher
Faculty & staff members (only for MS/M.Phil. students)-3 years satisfactory service	25%	3.00 or higher

Note:

- PGC scholarship, need-based scholarship, talent-based scholarship, sports scholarship, scholarship for differently-abled students are for the first 2 semesters and will be reevaluated on the above mentioned continuation CGPA upon their performance post the second semester
- The details of all the above mentioned scholarships is available on the university website <https://www.ucp.edu.pk/ucp-scholarships/>.
- Students who are not eligible for scholarships at the time of admission can apply for scholarships based on their CGPA after the completion of the first semester
- The recipients of all scholarships shall adhere to all university rules, policies and procedures with no exception as outlined in the student handbook. The university withholds the right to revoke any of the scholarships in case of breach of any disciplinary rules and regulations.

STUDENT RESOURCE CENTRES



Career Services Office

- Guidance and support from career professionals
- Career Labs prepares UCP students for the job market by helping them internalise professional and business skills
- Access to internships, jobs, scholarships, and exchange programmes



English Language Centre

- A blended learning approach to help students read and analyse complex texts and convey comprehensive ideas
- Provides support with the knowledge of grammar and vocabulary
- Aims to enhance students' critical thinking skills to enable them to cope with the course material in English across disciplines



Department of Student Affairs

- DSA manages student societies and clubs in the domains of performing arts, public speaking, science and community service
- Engages and provides the student with various co-curricular activities and opportunities



Student Service Centre

- Facilitates students in course registrations, add/drop of courses and virtual learning



State-of-the-Art Facilities



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Labs designated for FOITCS students



Over 67,000 resources available



For virtual meetings and conferences



Centre for all activities and events



Swimming Pool

A 25 yard, 4 lane, temperature controlled swimming pool



Sports Complex

Male & female gym with top-of-the-line training equipment



Cafeteria

Variety of food options with comfortable ambiance



Production House

Bringing scripts and ideas to life



Amphitheatre

Training ground for our young performers



Common Room

A shared lounge for students



In-house business incubator



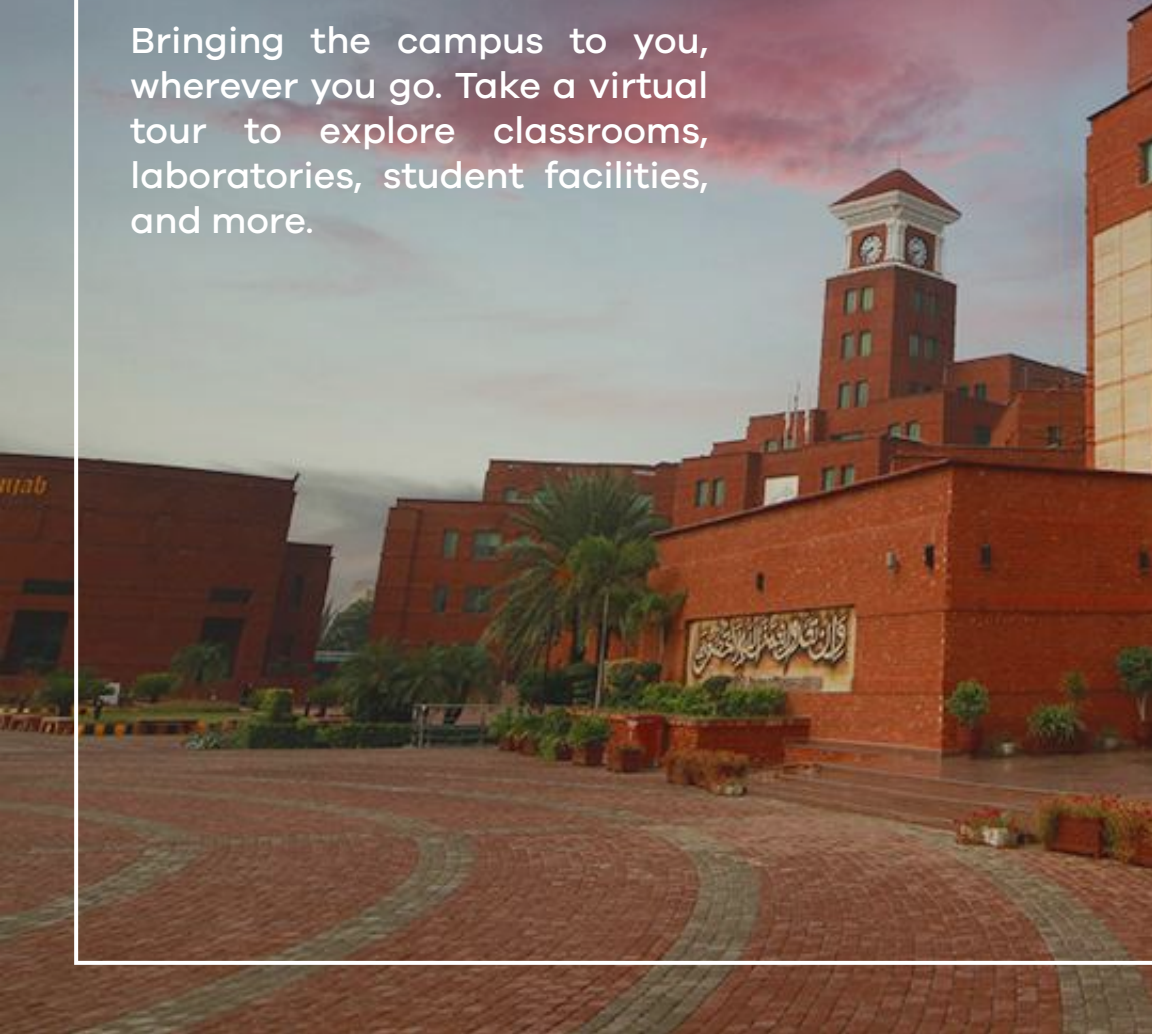
For meetings and brainstorming sessions



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In the Name of God the Most Gracious, the Most Merciful
Created



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