



University of Central Punjab
The centre of your future

Faculty of
Engineering


2022-23

www.ucp.edu.pk



INTRODUCTION

The **Faculty of Engineering** (FOE), established in 2002 at the University of Central Punjab, takes fair pride in the quality of its programmes both at undergraduate and graduate levels. Our research-led teaching ensures that we incorporate the latest advances in innovative engineering research, thus producing graduates with practical experience and highly desirable skills to meet the demands of the engineering industry. FOE has a world-class faculty with 20 PhD members and more than 50 master's degree holders who have obtained their post-graduate education from renowned institutions all over the world. Pakistan Engineering Council (PEC) and Higher Education Commission (HEC) recognise the unprecedented steps taken by the faculty for the students to learn through problem-solving and activity-based teaching. Our undergraduate programmes have obtained Washington Accord accreditation that enables our graduates to become part of the global engineering workforce in contemporary technologies. We deliver engaging and innovative learning that instils an ethos of curiosity, responsible leadership, and citizenship. Our Outcome Based Education System (OBE) produces graduate engineers who harness the benefits of innovative engineering with sustainable principles in a framework that promotes economic development and supports enhanced health and well-being. At FOE, we aim to fulfil our objective through targeted strategic investment in people, research, and teaching.



To this end, various initiatives are taken by FOE to improve the learning and capacity building of our graduates as listed below:

- i. Accredited at Level – II on Outcome Based Education (OBE) by Pakistan Engineering Council (PEC)
- ii. Foreign qualified PhD & Industrial experienced Faculty
- iii. Industrial visits and tours
- iv. Industry funded projects
- v. Inter-university extra-curricular activities and competitions
- vi. Semester exchange programs
- vii. Supervised industrial trainings and internships
- viii. Job Placement/ Career Fair through Career Services Office (CSO)
- ix. Career counseling, guidance and seminars
- x. Participation in Engineering competitions at National & International level

B.Sc. Electrical Engineering

The programme in Electrical Engineering gives in-depth knowledge to the students about key principles that are responsible for the latest advancements in Telecommunication, Automation, Power, Electronics, Computing and Robotics. These sub-fields play a crucial role in the growth of our industries and economy. This programme is accredited by Pakistan Engineering Council (PEC) on level – II Outcome based Education (OBE).

Eligibility Criteria: At least 60% marks in F.Sc. Pre-Engineering/A levels with (Maths, Physics & Chemistry)/DAE in Electrical/Electronic Technology or equivalent. All applicants are required to pass the UCP admission test.



B.Sc. Mechanical Engineering

This undergraduate degree provides students with the opportunity to develop essential knowledge and skills in Science, Technology, Design, Manufacturing, and Management to help prepare them for a career across a broad range of engineering industries upon graduation.

Eligibility Criteria: At least 60% marks in F.Sc. Pre-Engineering/A levels with (Maths, Physics & Chemistry)/DAE in Mechanical Technology or equivalent. All applicants are required to pass the UCP admission test.

B.Sc. Civil Engineering

Students will learn to engineer energy-efficient buildings using the latest techniques and design and develop sustainable and resilient infrastructures.

Eligibility Criteria: At least 60% marks in F.Sc. Pre-Engineering/A levels with (Maths, Physics & Chemistry)/DAE in Civil Technology or equivalent. All applicants are required to pass the UCP admission test.

M.Sc. Electrical Engineering

Being formally approved by HEC, this programme provides high-quality education and research opportunities in advanced areas of power systems engineering.

M.Sc. Mechanical Engineering

Being formally approved by HEC, this programme train students to become experts in advanced concepts, technologies and research areas from generating initial ideas to design and analyse onward to developing products, processes, systems, and maintenance.

M.Sc. Civil Engineering

Being formally approved by HEC, this programme is providing advanced knowledge and opportunities to research the state-of-the-art in civil engineering.

Eligibility Criteria: To apply for M.Sc. Electrical, Mechanical and Civil Engineering, a candidate must have at least 2.00/4.00 CGPA or 50% marks from an annual system in a relevant engineering programme or equivalent. All applicants are required to pass the UCP admission test and interview.

PhD Electrical Engineering

This programme provides a dynamic research environment with 5 HEC approved PhD supervisors in power systems and Control and a well-equipped dedicated research lab.

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

Fee Structure of Faculty of Engineering

Programme	Total Credit Hours	Admission Fee (PKR)	Per Credit Hour Fee (PKR)	Total Fee (PKR)
B.Sc. Electrical Engineering	136	25,000	10,200	1,412,200
B.Sc. Mechanical Engineering	135	25,000	12,000	1,645,000
B.Sc. Civil Engineering	133	25,000	12,500	1,687,500
M.Sc. Electrical Engineering	30	25,000	12,000	385,000
M.Sc. Mechanical Engineering	30	25,000	12,000	385,000
M.Sc. Civil Engineering	30	25,000	12,000	385,000
PhD Electrical Engineering	48	25,000	8,000	409,000

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
Merit Scholarship for Graduate 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 Programmes		
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 (MS/M.Phil)		
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	Scholarship	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 FOE students



Library

Over 67,000 resources available



Webinar Room

Designated hall for virtual meetings and conferences



Auditorium

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



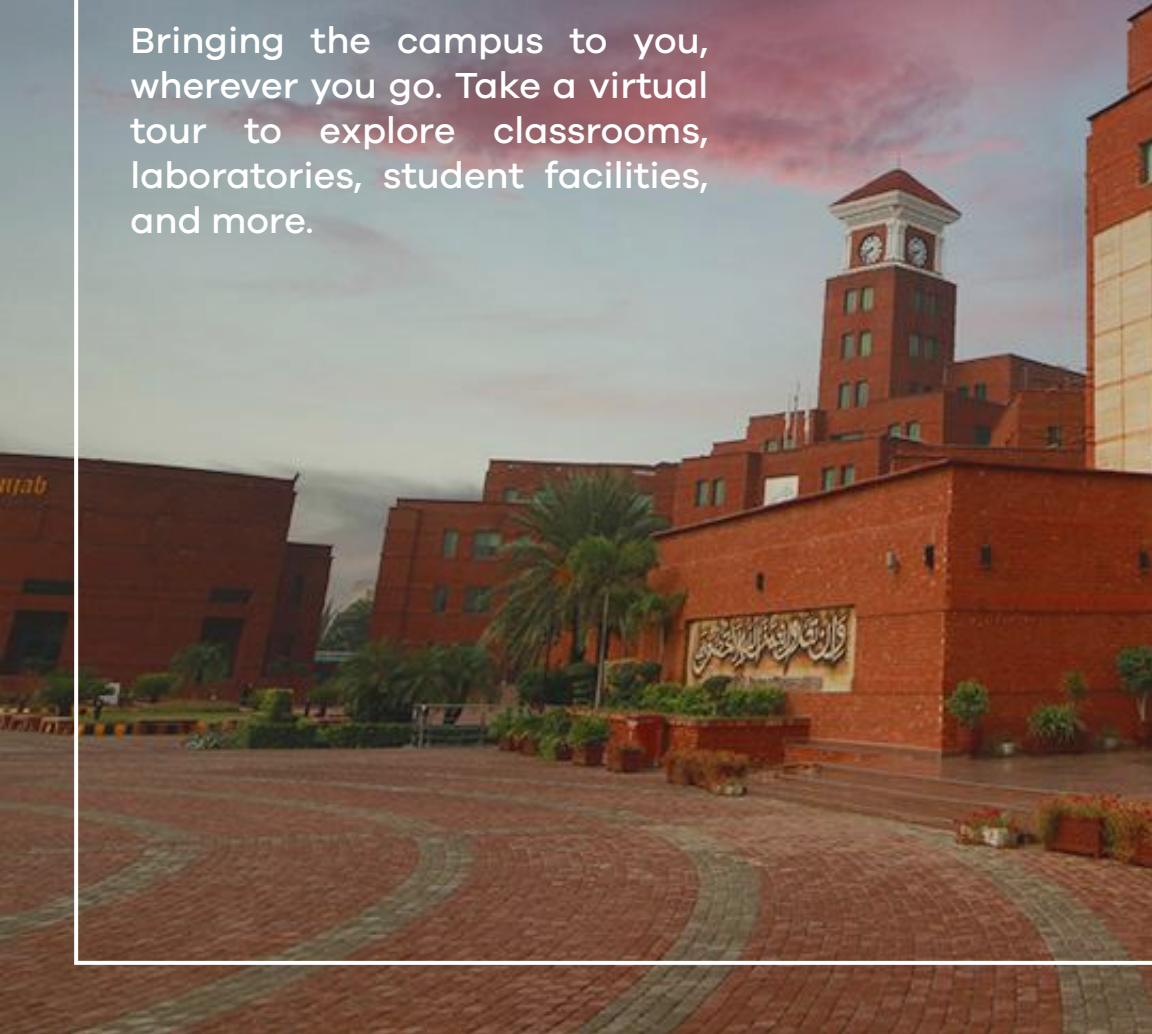
For meetings and brainstorming sessions



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