



FSC PRE-ENGINEERING

PROGRAM FACTSHEET

A strong foundation in Mathematics, Physics & Chemistry for a successful future in engineering and technology.



DESCRIPTION

FSc Pre-Engineering at CAS is a two-year intermediate program designed for students who aspire to pursue careers in engineering, technology, mathematics and other scientific fields. The program develops a strong academic foundation in Mathematics, Physics and Chemistry while enhancing analytical thinking, problem-solving abilities and conceptual understanding.



ELIGIBILITY

- Completed Matriculation / SSC or an equivalent qualification.
- Studied a suitable science-based curriculum at the secondary level.
- Strong academic foundation and interest in Mathematics and Science.
- Interest in pursuing higher education in engineering, technology or related fields.



COURSE STRUCTURE

Duration: 2 Years

The program is divided into:

FSc Part-I
First Year

FSc Part-II
Second Year

Core Subjects



Mathematics



Physics



Chemistry

Compulsory Subjects



English



Urdu



Islamic Studies /
Ethics



Pakistan
Studies

*Subject structure is as per the relevant Board curriculum.



CAREER & PROGRESSION

Higher Education Pathways

After FSc Pre-Engineering, students can pursue a wide range of degree programs, including:

- ✓ Civil Engineering
- ✓ Electrical Engineering
- ✓ Mechanical Engineering
- ✓ Computer Engineering
- ✓ Software Engineering
- ✓ Computer Science
- ✓ Information Technology
- ✓ Chemical Engineering
- ✓ Aerospace Engineering
- ✓ Mechatronics Engineering
- ✓ Architecture
- ✓ Mathematics
- ✓ Physics
- ✓ Data Science
- ✓ Artificial Intelligence
- ✓ And many more...



FUTURE CAREER OPPORTUNITIES

Graduates can build successful careers in engineering industries, technology companies, research & development, IT sector, construction, manufacturing, energy, innovation and many other fields.



ADMISSION REQUIREMENTS

- Completed admission application form
- Matric / SSC result or academic transcript
- Detailed Marks Certificate (DMC), where applicable
- Recent passport-size photographs
- CNIC / B-Form
- Parent / Guardian CNIC copy, where required
- Equivalency certificate for foreign / other board students
- Any additional documents requested by Admissions

*Students awaiting their final results may apply as per CAS policy.



WHY CHOOSE CAS?

- ✓ **Strong Academic Foundation** – Build essential knowledge in Mathematics, Physics & Chemistry.
- ✓ **Analytical Skills** – Enhance logical thinking and problem-solving abilities.
- ✓ **Experienced Faculty** – Learn from dedicated and qualified teachers.
- ✓ **Focus on Conceptual Learning** – Understand deeply, perform confidently.
- ✓ **Pathways to Success** – Prepare for top engineering and technology universities.
- ✓ **Supportive Environment** – Modern facilities and student support services for overall development.

BUILD TODAY ENGINEER TOMORROW

Your journey towards innovation and a brighter future starts here.

APPLY NOW

Take the first step towards a successful future in Engineering and Technology.



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www.cas-pak.edu.pk