

ASSOCIATE DEGREE PROGRAMS

The Associate Degree Program (ADP) is a two-year post-Intermediate (or equivalent qualification with twelve years of schooling) degree program that is offered at un-graduated level and is approved by the Higher Education Commission (HEC). The ADP program is structured to be conducted over four regular semesters in two years and consists of 72 credit hours. Department of Computer Science at Capital University of Science & Technology (CUST), Islamabad is offering ADP in Computer Science (ACS). It is approximately equivalent to the first two years of the four-year BS(CS) degree. The primary purpose of ACS is to fulfill the requirements of industry and to produce a young workforce that can join practical life at the earliest possible stage after being equipped with industry-oriented Computer/IT skills. It

also offers affordability for students who are financially incapacitated. The curriculum of ACS is especially developed in close consultation with experts from the industry. The courses of ACS can be broadly categorized as follows:

1. General Courses
2. Foundation Courses
3. Technology Oriented Course

Students holding ACS are also eligible for enrollment in the fifth semester of the four-year BS(CS) program by transferring their earned credits.



Associate Degree Program in Computer Science

(ii) CUST Admission Test / HEC Approved Test.

■ Admission Requirements

- (i) Higher Secondary School Certificate or equivalent securing at least 45% marks in aggregate.

■ Degree Requirements

The candidate is required to complete 72 Cr. Hrs. as per following details:

Area	Cr. Hrs.
a) General Education	34
b) Major Courses	28
c) Elective Courses	07
d) Internship	03
Total	72

■ General Education (30 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies/Ethics	ACSG1012	2
Functional English	ACSG1113	3
Sociology	ACSG1412	2
Calculus and Analytical Geometry	ACSG1513	3
Applied Physics	ACSG1313	3
Ideology and Constitution of Pakistan	ACSG1022	2
Expository Writing	ACSG1123	3
Discrete Structures	ACSG1573	3
Entrepreneurship	ACSG2712	2
Civics and Professional Ethics	ACSG2812	2
Personal Grooming	ACSG2212	2
Application of Information & Communication Technologies	ACSG1612	2
Application of Information & Communication Technologies Lab	ACSG1611	1
Fehm-ul-Quran I	ACSG1021	1
Fehm-ul-Quran II	ACSG1031	1
Pakistan Studies	ACSG1032	2

SCHEME OF STUDIES

ADP Computer Science

□ Semester-I (15 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ACSG1113	Functional English	3
ACSG1513	Calculus and Analytical Geometry	3
ACSG1312	Applied Physics	2
ACSG1311	Applied Physics Lab	1
ACS1133	Introduction to Programming	3
ACS1131	Introduction to Programming Lab	1
ACSG1022	Ideology and Constitution of Pakistan	2

□ Semester-II (18 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ACSG1123	Expository Writing	3
ACSG1412	Sociology	2
ACSG1012	Islamic Studies/Ethics	2
ACSG1612	Application of Information & Communication Technologies	2
ACSG1611	Application of Information & Communication Technologies Lab	1
ACSG1021	Fehm-ul-Quran I	1
ACSG1573	Discrete Structures	3
ACS1143	Object Oriented Programming	3
ACS1141	Object Oriented Programming Lab	1

□ Semester-III (18 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ACS2143	Data Structures	3
ACS2141	Data Structures Lab	1
ACS2313	Introduction to Database Systems	3
ACS2311	Introduction to Database Systems Lab	1

■ Major Courses (28 Cr.Hrs.)

Course Title	Code	Cr. Hrs.
Introduction to Programming	ACS1133	3
Introduction to Programming lab	ACS1131	1
Object Oriented Programming	ACS1143	3
Object Oriented Programming Lab	ACS1141	1
Data Structures	ACS2143	3
Data Structures Lab	ACS2141	1
Introduction to Database Systems	ACS2313	3
Introduction to Database Systems Lab	ACS2311	1
Software Engineering	ACS2223	3
Operating Systems	ACS2233	3
Computer Networks	ACS2243	3
Linear Algebra	ACS2033	3

■ Elective Courses (07 Cr.Hrs.)

Course Title	Code	Cr. Hrs.
Web Application Development	ACS2413	3
Web Application Development Lab	ACS2411	1
Information Security & Forensics	ACS2323	3

■ Internship

It is mandatory for every student to participate in a 8 weeks summer internship program following their 4th semester.

Course Title	Code	Cr. Hrs.
Internship	AD4003	3

■ Program Duration

This is a two-year degree program comprising of 4 semesters. There will be a Fall and Spring semester each year. The maximum duration to complete the ADP (Computer Science) is 3 years.

■ CGPA Requirement

A student is required to earn a minimum 2.00/4.00 CGPA on the completion of degree requirements.

ACSG2212	Personal Grooming	2
ACSG2712	Entrepreneurship	2
ACS2033	Linear Algebra	3
ACSG1031	Fehm-ul-Quran II	1
ACSG1032	Pakistan Studies	2

□ Semester-IV (18 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ACS2223	Software Engineering	3
ACS2233	Operating Systems	3
ACS2323	Information Security & Forensics	3
ACS2413	Web Application Development	3
ACS2411	Web Application Development Lab	1
ACS2243	Computer Networks	3
ACSG2812	Civics and Professional Ethics	2





Disclaimer

Utmost efforts have been made to ensure the accuracy of the information provided in this publication, but the University reserves the right, to make changes, after the due process, in regulations, courses, fees, etc at any time.

In case of any ambiguity or nonexistence of policy for certain situations, the final authority for interpretation and provision shall rest with the University whose decision shall be binding and conclusive for all parties concerned.

PROSPECTUS

C.U.S.T.

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2025-26

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