ASSOCIATE DEGREE PROGRAMS

The Department of Associate Degree Programs offers the 2-year Associate Degree in Business Administration, Accounting & Finance, Commerce and Computing. All of the above programs are accredited by the Higher Education Commission of Pakistan. These programs are equal to 14 years of education and are open to post intermediate entrants. These programs are intended to be conducted in four semesters over a period of two years. The Associate Degree Programs offered at CUST are designed in close consultation with industry and field experts with the aim to develop a work force capable of fulfilling the gap between industry needs and skilled manpower. The curriculum ensures that the graduates possess communication, interpersonal and occupational skills suitable for the needs of the industry. It includes 66 to 68 credit hours of studies further enhanced by hands on practical training through an industrial internship, all of which are essential for completion of degree requirements.

The Associate Degree Programs offer some unique advantages as compared to other undergraduate degrees. On completion of an Associate Degree students can join practical life at the earliest possible stage as they are now part of a young work force fully equipped with industry-oriented skills. Additionally, these programs offer an affordable path towards an early profession for the financially incapacitated. Further, as the Associate Degree is approximately equal to the first two years of the corresponding 4-year Bachelor Degree, hence, students who have completed the Associate Degree can seek direct enrollment in the 5th semester of the relevant 4 year Bachelor Degree Program.

Associate Degree in Business Administration

The Associate Degree Program (ADP) is designed to fill the gap between industry needs and the skilled manpower. The two-year ADP program will prepare the HSSC graduates for the job market in a short time. The courses are designed to develop student's communication, interpersonal and occupational skills. The courses cover diverse areas of business administration including accounting, management, finance, human resource management and marketing. This program will build a professional work force with high employment value. The graduates may continue the respective BS program in future with advance standing.

■ Admission Requirements

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

(ii) CUST Admission Test / HEC Approved Test.

■ Degree Requirements

The candidate is required to complete 66 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	30
b)	Major Courses	27
c)	Elective Courses	06
d)	Internship	03
	Total	**66**

■ General Education (30 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies/Ethics	ADPG1012	2
Functional English	ADPG1113	3
Introduction to Psychology	ADPG1422	2
Applications of Information & Communication Technologies	ADPG1612	2
Applications of Information & Communication Technologies Lab	ADPG1611	1
Mathematics	ADPG1353	3
Language-I	ADPG12x2	2
Expository Writing	ADPG1123	3
Analytical Reasoning	ADPG1583	3
Computing & Analytics	ADPG1553	3
Civic & Community Engagement	ADPG1812	2

Ideology and Constitution of Pakistan	ADPG1022	2
Entrepreneurship	ADPG2712	2

■ **Major Courses (27 Cr.Hrs.)**

Course Title	Code	Cr. Hrs.
Statistics & Probability	ADP1523	3
Principle of Marketing	ADP2013	3
Principle of Management	ADP2003	3
Principles of Accounting -I	ADP2113	3
Economics	ADP1223	3
Business Information Systems	ADP2203	3
Business Finance	ADP2103	3
Principles of Accounting-II	ADP2123	3
Introduction to HRM	ADP2023	3

■ **Elective Courses (06 Cr.Hrs.)**

Course Title	Code	Cr. Hrs.
E-Business	ADP2223	3
Business Communication & Report Writing	ADP2213	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

■ **Duration**

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

■ **CGPA Requirement**

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

SCHEME OF STUDIES
ADP Business Administration

☐ **Semester-I (15 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADPG1113	Functional English	3
ADPG1422	Introduction to Psychology	2
ADPG1353	Mathematics	3
ADPG1012	Islamic Studies/Ethics	2
ADPG12x2	Language-I	2
ADPG1612	Applications of Information & Communication Technologies	2
ADPG1611	Applications of Information & Communication Technologies Lab	1

☐ **Semester-II (16 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADPG1123	Expository Writing	3
ADPG1583	Analytical Reasoning	3
ADPG1022	Ideology and Constitution of Pakistan	2
ADP1523	Statistics & Probability	3
ADPG1553	Computing & Analytics	3
ADPG1812	Civic & Community Engagement	2

☐ **Semester-III (15 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADP2013	Principles of Marketing	3
ADP2003	Principles of Management	3
ADP2113	Principles of Accounting-I	3
ADP1223	Economics	3
ADP2203	Business Information Systems	3

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☐ **Semester-IV (17 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADP2103	Business Finance	3
ADP2123	Principles of Accounting-II	3
ADPG2712	Entrepreneurship	2
ADP2023	Introduction to HRM	3
ADP2223	E-Business	3
ADP2213	Business Communication & Report Writing	3

Associate Degree in Accounting and Finance

The Associate Degree in Accounting and Finance is a regular 2-year degree program which has been designed to equip the students with adequate knowledge and skills which would help them taking an early start of their professional career. The courses are designed to cover diverse areas from field of accounting and finance. This program will build professional work force for financial sector with high employment value. The graduates holding Associate Degree can continue future education towards respective BS 4-year degree program with advance standing.

■ Admission Requirements

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

(ii) CUST Admission Test / HEC Approved Test.

■ Degree Requirements

The candidate is required to complete 66 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	30
b)	Major Courses	27
c)	Elective Courses	06
d)	Internship	03
	Total	**66**

■ General Education (30 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies/Ethics	ADPG1012	2
Functional English	ADPG1113	3
Introduction to Psychology	ADPG1422	2
Applications of Information & Communication Technologies	ADPG1612	2
Applications of Information & Communication Technologies Lab	ADPG1611	1
Mathematics	ADPG1353	3
Language-I	ADPG12x2	2
Expository Writing	ADPG1123	3
Analytical Reasoning	ADPG1583	3
Computing & Analytics	ADPG1553	3
Civic & Community Engagement	ADPG1812	2

| Ideology and Constitution of Pakistan | ADPG1022 | 2 |
| Entrepreneurship | ADPG2712 | 2 |

■ **Major Courses (27 Cr.Hrs.)**

Course Title	Code	Cr. Hrs.
Statistics & Probability	ADP1523	3
Financial Reporting	ADP2163	3
Principle of Management	ADP2003	3
Principles of Accounting -I	ADP2113	3
Economics	ADP1223	3
Business Information Systems	ADP2203	3
Business Finance	ADP2103	3
Principles of Accounting-II	ADP2123	3
Introduction to HRM	ADP2023	3

■ **Elective Courses (06 Cr.Hrs.)**

Course Title	Code	Cr. Hrs.
Financial Management	ADP2183	3
Cost Accounting	ADP2153	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 a Spring semester each year. The maximum duration to complete the ADP (Accounting and Finance) is 4 years.

■ **CGPA Requirement**

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

SCHEME OF STUDIES
ADP Accounting and Finance

☐ **Semester-I (15 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADPG1113	Functional English	3
ADPG1422	Introduction to Psychology	2
ADPG1353	Mathematics	3
ADPG1012	Islamic Studies/Ethics	2
ADPG12x2	Language-I	2
ADPG1612	Applications of Information & Communication Technologies	2
ADPG1611	Applications of Information & Communication Technologies Lab	1

☐ **Semester-II (16 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADPG1123	Expository Writing	3
ADPG1583	Analytical Reasoning	3
ADPG1022	Ideology and Constitution of Pakistan	2
ADP1523	Statistics & Probability	3
ADPG1553	Computing & Analytics	3
ADPG1812	Civic & Community Engagement	2

☐ **Semester-III (15 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADP2163	Financial Reporting	3
ADP2003	Principles of Management	3
ADP2113	Principles of Accounting-I	3
ADP1223	Economics	3
ADP2203	Business Information Systems	3

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☐ Semester-IV (17 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ADP2103	Business Finance	3
ADP2123	Principles of Accounting-II	3
ADPG2712	Entrepreneurship	2
ADP2023	Introduction to HRM	3
ADP2183	Financial Management	3
ADP2153	Cost Accounting	3

Associate Degree in Commerce

The Associate Degree in Commerce is a regular 2-year degree program which has been designed to equip the students with adequate knowledge and skills which would help them taking an early start of their professional career. The courses are designed to cover diverse areas from field of commerce including accounting, finance, taxation, law auditing and E-Commerce. This program will build professional work force with high employment value. The graduates holding Associate Degree can continue towards respective BS 4-year degree program in future with advance standing.

■ Admission Requirements

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

(ii) CUST Admission Test / HEC Approved Test.

■ Degree Requirements

The candidate is required to complete 66 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	30
b)	Major Courses	27
c)	Elective Courses	06
d)	Internship	03
	Total	**66**

■ General Education (30 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies/Ethics	ADPG1012	2
Functional English	ADPG1113	3
Introduction to Psychology	ADPG1422	2
Applications of Information & Communication Technologies	ADPG1612	2
Applications of Information & Communication Technologies Lab	ADPG1611	1
Mathematics	ADPG1353	3
Language-I	ADPG12x2	2
Expository Writing	ADPG1123	3
Analytical Reasoning	ADPG1583	3
Computing & Analytics	ADPG1553	3
Civic & Community Engagement	ADPG1812	2
Ideology and Constitution of Pakistan	ADPG1022	2

| Entrepreneurship | ADPG2712 | 2 |

■ Major Courses (27 Cr.Hrs.)

Course Title	Code	Cr. Hrs.
Statistics & Probability	ADP1523	3
Principle of Marketing	ADP2013	3
Principle of Management	ADP2003	3
Principles of Accounting -I	ADP2113	3
Economics	ADP1223	3
Business Information Systems	ADP2203	3
Business Finance	ADP2103	3
Principles of Accounting-II	ADP2123	3
Introduction to HRM	ADP2023	3

■ Elective Courses (06 Cr.Hrs.)

Course Title	Code	Cr. Hrs.
E-Commerce	ADP2133	3
Taxation	ADP2173	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 a Spring semester each year. The maximum duration to complete the ADP (Commerce) is 4 years.

■ CGPA Requirement

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

SCHEME OF STUDIES
ADP Commerce

☐ Semester-I (15 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ADPG1113	Functional English	3
ADPG1422	Introduction to Psychology	2
ADPG1353	Mathematics	3
ADPG1012	Islamic Studies/Ethics	2
ADPG12x2	Language-I	2
ADPG1612	Applications of Information & Communication Technologies	2
ADPG1611	Applications of Information & Communication Technologies Lab	1

☐ Semester-II (16 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ADPG1123	Expository Writing	3
ADPG1583	Analytical Reasoning	3
ADPG1022	Ideology and Constitution of Pakistan	2
ADP1523	Statistics & Probability	3
ADPG1553	Computing & Analytics	3
ADPG1812	Civic & Community Engagement	2

☐ Semester-III (15 Cr. Hrs.)

Course Code	Course Title	Cr. Hrs.
ADP2013	Principles of Marketing	3
ADP2003	Principles of Management	3
ADP2113	Principles of Accounting-I	3
ADP1223	Economics	3
ADP2203	Business Information Systems	3

☐ **Semester-IV (17 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ADP2103	Business Finance	3
ADP2123	Principles of Accounting-II	3
ADPG2712	Entrepreneurship	2
ADP2023	Introduction to HRM	3
ADP2133	E-Commerce	3
ADP2173	Taxation	3

Associate Degree Program in Computer Science

The Associate Degree Program (ADP) is a two-year post-Intermediate (or equivalent qualifications with twelve years of schooling) degree program that is offered at undergraduate level and is approved by the Higher Education Commission (HEC). An ADP is structured to be conducted over four regular semesters in a two-years period and consists of 65 to 68 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 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 IT skills. It also maintains afford ability for students that are financially incapacitated. The curriculum of ACS is especially developed in close consultation with experts from industry. The courses of ACS can be broadly categorized into following:

a) General Courses

b) Foundation Courses

c) Technology-Oriented Courses

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

■ Admission Requirements

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

(ii) CUST Admission Test / HEC Approved Test.

■ Degree Requirements

The candidate is required to complete 68 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	30
b)	Major Courses	28
c)	Elective Courses	07
d)	Internship	03
	Total	**68**

■ 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

■ 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	ACS1033	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 4 years.

■ CGPA Requirement

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

SCHEME OF STUDIES
ADP Computer Science

☐ **Semester-I (18 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ACSG1113	Functional English	3
ACSG1022	Ideology and Constitution of Pakistan	2
ACSG1513	Calculus and Analytical Geometry	3
ACSG1313	Applied Physics	3
ACS1133	Introduction to Programming	3
ACS1131	Introduction to Programming Lab	1
ACSG1612	Application of Information & Communication Technologies	2
ACSG1611	Application of Information & Communication Technologies Lab	1

☐ **Semester-II (17 Cr. Hrs.)**

Course Code	Course Title	Cr. Hrs.
ACSG1123	Expository Writing	3
ACSG1412	Sociology	2
ACSG1012	Islamic Studies/Ethics	2
ACS1033	Linear Algebra	3
ACSG1573	Discrete Structures	3
ACS1143	Object Oriented programming	3
ACS1141	Object Oriented programming Lab	1

☐ **Semester-III (15 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
ACSG2212	Personal Grooming	2
ACSG2712	Entrepreneurship	2
ACS2243	Computer Networks	3

☐ **Semester-IV (15 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
ACSG2812	Civics and Professional Ethics	2

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