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 69 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	39
b)	Discipline Specific Requirements	–
	• Foundation Courses	21
	• Elective Courses	06
c)	Internship	03
	Total	**69**

■ General Education (39 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies	ADPG1013	3
English I	ADPG1113	3
Intro to Psychology	ADPG1213	3
Mathematics	ADPG1313	3
Introduction to Computing	ADPG1413	3
Language I	ADPG15x3	3
Pakistan Studies	ADPG1023	3
English II	ADPG1123	3
Economics	ADPG1223	3
Statistics and Probability	ADPG1323	3

Analytical Reasoning	ADPG1423	3
Language II	ADPG15x3	3
English III	ADPG2133	3

■ Discipline Specific Requirements

a)–Foundation Courses (21 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Principle of Management	ADP2003	3
Business Finance	ADP2103	3
Principles of Accounting	ADP2113	3
Business Information System	ADP2203	3
E Business	ADP2213	3
Business Communication	ADP2223	3
Entrepreneurship and Innovation	ADP2033	3

b)–Elective Courses (06 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Principles of Marketing	ADP2013	3
Human Resource Management	ADP2023	3

■ Internship(PY4000)

Students will have to complete a 9-week summer internship after they have completed their 4th semester.

■ 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 (18 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADPG1113	English I	General (En1)	3
ADPG1213	Intro to Psychology	General (SS1)	3
ADPG1313	Mathematics	General (NS1)	3
ADPG1413	Introduction to Computing	General (QR1)	3
ADPG15x3	Language I	General (AH1)	3
ADPG1013	Islamic Studies	General (CV1)	3

☐ **Semester-II (18 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADPG1123	English II	General (EN2)	3
ADPG1223	Economics	General (SS2)	3
ADPG1323	Statistics and Probability	General (NS2)	3
ADPG1423	Analytical Reasoning	General (QR2)	3
ADPG15x3	Language II	General (AH2)	3
ADPG1023	Pakistan Studies	General (CV2)	3

☐ **Semester-III (15 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADPG2133	English III	General (EN3)	3
ADP2003	Principle of Management	Major	3
ADP2103	Business Finance	Major	3
ADP2113	Principles of Accounting	Major	3
ADP2203	Business Information System	Major	3

☐ **Semester-IV (15 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADP2213	E Business	Major	3
ADP2223	Business Communication	Major	3
ADP2013	Principles of Marketing	Elective	3
ADP2023	Human Resource Management	Elective	3
ADP2033	Entrepreneurship and Innovation	Major	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 69 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	39
b)	Discipline Specific Requirements	-
	• Foundation Courses	21
	• Elective Courses	06
c)	Internship	03
	Total	**69**

■ General Education (39 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies	ADPG1013	3
English I	ADPG1113	3
Intro to Psychology	ADPG1213	3
Mathematics	ADPG1313	3
Introduction to Computing	ADPG1413	3
Language I	ADPG15x3	3
Pakistan Studies	ADPG1023	3
English II	ADPG1123	3
Economics	ADPG1223	3
Statistics and Probability	ADPG1323	3
Analytical Reasoning	ADPG1423	3

Language II	ADPG15x3	3
English III	ADPG2133	3

■ **Discipline Specific Requirements**

a)–Foundation Courses (21 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Principle of Management	ADP2003	3
Business Finance	ADP2103	3
Principles of Accounting	ADP2113	3
Business Information System	ADP2203	3
E Business	ADP2213	3
Business Communication	ADP2223	3
Entrepreneurship and Innovation	ADP2033	3

b–Elective Courses (06 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Principles of Accounting II	ADP2123	3
Money and Banking	ADP2143	3

■ **Internship(PY4000)**

Students will have to complete a 9-week summer internship after they have completed their 4th semester.

■ **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 (18 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADPG1113	English I	General (En1)	3
ADPG1213	Intro to Psychology	General (SS1)	3
ADPG1313	Mathematics	General (NS1)	3
ADPG1413	Introduction to Computing	General (QR1)	3
ADPG15x3	Language I	General (AH1)	3
ADPG1013	Islamic Studies	General (CV1)	3

☐ **Semester-II (18 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADPG1123	English II	General (EN2)	3
ADPG1223	Economics	General (SS2)	3
ADPG1323	Statistics and Probability	General (NS2)	3
ADPG1423	Analytical Reasoning	General (QR2)	3
ADPG15x3	Language II	General (AH2)	3
ADPG1023	Pakistan Studies	General (CV2)	3

☐ **Semester-III (15 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADPG2133	English III	General (EN3)	3
ADP2003	Principle of Management	Major	3
ADP2103	Business Finance	Major	3
ADP2113	Principles of Accounting	Major	3
ADP2203	Business Information System	Major	3

☐ **Semester-IV (15 Cr. Hrs.)**

Course Code	Course Title	Category	Cr. Hrs.
ADP2213	E Business	Major	3
ADP2223	Business Communication	Major	3
ADP2123	Principles of Accounting II	Elective	3
ADP2143	Money and Banking	Elective	3
ADP2033	Entrepreneurship and Innovation	Major	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 69 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	39
b)	Discipline Specific Requirements	-
	• Foundation Courses	21
	• Elective Courses	06
c)	Internship	03
	Total	**69**

■ General Education (39 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies	ADPG1013	3
English I	ADPG1113	3
Intro to Psychology	ADPG1213	3
Mathematics	ADPG1313	3
Introduction to Computing	ADPG1413	3
Language I	ADPG15x3	3
Pakistan Studies	ADPG1023	3
English II	ADPG1123	3
Economics	ADPG1223	3
Statistics and Probability	ADPG1323	3
Analytical Reasoning	ADPG1423	3
Language II	ADPG15x3	3

English III	ADPG2133	3

■ Discipline Specific Requirements

a)–Foundation Courses (21 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Principle of Management	ADP2003	3
Business Finance	ADP2103	3
Principles of Accounting	ADP2113	3
Business Information System	ADP2203	3
E Business	ADP2213	3
Business Communication	ADP2223	3
Entrepreneurship and Innovation	ADP2033	3

b–Elective Courses (06 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Cost Accounting	ADP2153	3
Business Law and Taxation	ADP2043	3

■ Internship(PY4000)

Students will have to complete a 9-week summer internship after they have completed their 4th semester.

■ 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 (18 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ADPG1113	English I	General (En1)	3
ADPG1213	Intro to Psychology	General (SS1)	3
ADPG1313	Mathematics	General (NS1)	3
ADPG1413	Introduction to Computing	General (QR1)	3
ADPG15x3	Language I	General (AH1)	3
ADPG1013	Islamic Studies	General (CV1)	3

☐ Semester-II (18 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ADPG1123	English II	General (EN2)	3
ADPG1223	Economics	General (SS2)	3
ADPG1323	Statistics and Probability	General (NS2)	3
ADPG1423	Analytical Reasoning	General (QR2)	3
ADPG15x3	Language II	General (AH2)	3
ADPG1023	Pakistan Studies	General (CV2)	3

☐ Semester-III (15 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ADPG2133	English III	General (EN3)	3
ADP2003	Principle of Management	Major	3
ADP2103	Business Finance	Major	3
ADP2113	Principles of Accounting	Major	3
ADP2203	Business Information System	Major	3

☐ Semester-IV (15 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ADP2213	E Business	Major	3
ADP2223	Business Communication	Major	3
ADP2153	Cost Accounting	Elective	3
ADP2043	Business Law and Taxation	Elective	3
ADP2033	Entrepreneurship and Innovation	Major	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 71 Cr. Hrs. as per following details:

	Area	Cr. Hrs.
a)	General Education	28
b)	Discipline Specific Requirements	–
	• Foundation Courses	28
	• Elective Courses	12
c)	Internship	03
	Total	**71**

■ General Education (28 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Islamic Studies	ACSG1012	2
English I	ACSG1113	3
Intro to Psychology	ACSG1213	3
Calculus and Analytical Geometry	ACSG1013	3

Applied Physics	ACSG1023	3
Linear Algebra	ACSG1033	3
Pakistan Studies	ACSG1022	2
English II	ACSG1123	3
Financial Accounting	ACSG2113	3
English III	ACSG2133	3

■ **Discipline Specific Requirements**

a)–Foundation 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
Discrete Structures	ACS1153	3
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

b–Elective Courses (12 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Web Application Development	ACS2413	3
Web Application Development Lab	ACS2411	1
Enterprise Application Development	ACS2423	3
Enterprise Application Development Lab	ACS2421	1
Mobile Application Development	ACS2433	3
Mobile Application Development Lab	ACS2431	1

■ **Internship PY4000 (3 Cr. Hrs.)**

Students will have to complete a 9-week summer internship after they have completed their 4th semester.

■ **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.

Capital University of Science and Technology

SCHEME OF STUDIES
ADP Computer Science

☐ Semester-I (15 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ACSG1113	English I	General	3
ACSG1013	Calculus and Analytical Geometry	General	3
ACSG1023	Applied Physics	General	3
ACSG1022	Pakistan Studies	General	2
ACS1133	Introduction to Programming	Foundation	3
ACS1131	Introduction to Programming Lab	Foundation	1

☐ Semester-II (18 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ACSG1123	English II	General	3
ACSG1033	Linear Algebra	General	3
ACSG1012	Islamic Studies/ Ethics	General	2
ACSG1213	Introduction to Psychology	General	3
ACS1153	Discrete Structures	Foundation	3
ACS1143	Object Oriented Programming	Foundation	3
ACS1141	Object Oriented Programming Lab	Foundation	1

☐ Semester-III (18 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ACSG2133	English III	General	3
ACSG2113	Financial Accounting	General	3
ACS2143	Data Structures	Foundation	3
ACS2141	Data StructuresLab	Foundation	1
ACS2313	Introduction to Database Systems	Foundation	3

ACS2311	Introduction to Database Systems Lab	Foundation	1
ACS2413	Web Application Development	Elective	3
ACS2411	Web Application Development Lab	Elective	1

☐ Semester-IV (17 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
ACS2223	Software Engineering	Foundation	3
ACS2233	Operating Systems	Foundation	3
ACS2243	Computer Networks	Foundation	3
ACS2423	Enterprise Application Development	Elective	3
ACS2421	Enterprise Application Development Lab	Elective	1
ACS2433	Mobile Application Development	Elective	3
ACS2431	Mobile Application Development Lab	Elective	1