



# The MIIM VIRTUAL UNIVERSITY Islamabad

Study Center # CTISB-007



## UNDER-GRADUATE PROGRAMS

Sr. No.	Programs	Pages
1	<b>ADE</b> (Associate Degree in Education)	2
2	<b>BS (CS)</b>	3 to 7
3	<b>BS (BA)</b>	8 to 13
4	<b>BS (SE)</b>	14 to 17
5	<b>BBS</b>	18 to 19



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## Associate Degree in Education Associate Degree in Education/B. Ed (In-service Students)

<b>Program Name</b>	Associate Degree in Education/B.Ed
<b>Eligibility</b>	12 years schooling (2nd Division or Equivalent) 1 year professional training CT or 18 months Diploma in Education Minimum 3 year teaching experience
<b>Semesters</b>	3
<b>Number of years</b>	One and a Half year ( 18 Months)
<b>Credit hours</b>	38 (Minimum)

### Department Of Education

Department of Education has come up with most advanced and highly in demand program i.e. Associate Degree in Education. The programs is offered for both In-service and Pre-service candidates and also for people continuing their education.

### Associate Degree in Education

#### Program Introduction

Associate Degree in Education (ADE) is a 18 month degree program structured on three semesters and 38 credit hours. It is equivalent to a 14-year Bachelor (Pass) degree and designed for elementary, primary and higher school teachers to further enhance and develop their teaching skills, content of knowledge and expertise.

#### Program Objective

The primary objective of this program is to move a step closer towards delivering quality education across Pakistan through an effort to ensure that elementary level teachers are facilitated, knowledgeable and are able to maintain a decorum in the institutions they teach in not only in the large metropolitan cities of the country but also rural where a vast majority is delivering education through means and methods that are not only questionable but also the faculty's competencies vary greatly.

#### Employment Perspective

The field of education and teaching can be a rewarding career choice for those who wish to work and contribute for the society and help shape lives. There are a variety of career options available in the education sector and ADE is a step up the ladder for those already in service and for those just starting their careers.

## BS COMPUTER SCIENCE

<b>Program Name</b>	BS(CS)
<b>Eligibility</b>	Intermediate or equivalent with minimum 50% marks, from an accredited institution. NTS as per CIIT policy.
<b>Session</b>	Fall and Spring
<b>Semesters</b>	8
<b>Number of years</b>	4 years
<b>Credit hours</b>	134

The program focuses on instilling comprehensive computer science knowledge among students and exposing them to issues involved in the development of scientific, educational and commercial applications of computer science. The degree lays emphasis on an integrated approach to meet the hardware and software needs of the industry.

The purpose of this program is to produce graduates with a sound knowledge of computer science, contemporary technologies, and professional skills. It is a four years program of eight semesters, each semester running for sixteen weeks. The degree is awarded to students on the successful completion of a minimum 134 credit hours, including six credits for the project, with a minimum cGpA of 2.0/4.0

### Structure

#### Semester 1

Course Code	Course Title	Credit Hours
HUM110	Islamic Studies	3(3, 0)
HUM100	English Comprehension and Composition	3(3, 0)
EEE121 I	Electric Circuits Analysis	4(3, 1)
MTH104	Calculus and Analytic Geometry	3(3, 0)
CSC103	Introduction to Computers and Programming	4(3, 1)
MGT101	Introduction to Management	3(3,0)

## Semester 2

Course Code	Course Title	Credit Hours
CSC241	Object Oriented Programming	4(1, 0)
HUM111	Pakistan Studies	3(3, 0)
MTH105	Multivariable Calculus	3(3, 0)
CSC102	Discrete Structures	3(3, 0)
HUM102	Report Writing Skills	3(3, 0)
EEE231	Electronics I	4(3,1)

## Semester 3

Course Code	Course Title	Credit Hours
HUM103	Communication Skills	3(3, 0)
CSC271	Database Systems	4(3, 1)
EEE241	Digital Logic Design	4(3, 1)
MTH242	Differential Equations	3(3, 0)
CSC211	Data Structures	4(3, 1)

## Semester 4

Course Code	Course Title	Credit Hours
CSC291	Software Engineering I	3(3, 0)
CSC221	Computer Organization and Assembly Language	4(3, 1)
MTH262	Statistics and Probability Theory	3(3, 0)
MTH231	Linear Algebra	3(3, 0)
CSC201	Design and Analysis of Algorithms	3(3, 0)

## Semester 5

Course Code	Course Title	Credit Hours
CSC253	Computer Graphics	3(2, 1)
CSC322	Operating Systems Concepts	3(3, 0)
CSC392	Software Engineering II	3(3, 0)
EEE440	Computer Architecture	3(3, 0)
CSC339	Computer Communication and Networks	4(3, 1)

## Semester 6

Course Code	Course Title	Credit Hours
CSC336	Web Engineering	4(3, 1)
CSC312	Automata Theory	3(3, 0)
MGT131	Financial Accounting	3(3, 0)
****	*Elective I	3(3, 0)
MTH375	Numerical Computations	3(3, 0)

## Semester 7

Course Code	Course Title	Credit Hours
CSC462	Artificial Intelligence	3(2, 1)
CSC441	Compiler Construction	4(3, 1)
CSC456	Human Computer Interaction	3(3, 0)
****	*Elective II	3(3, 0)
CSC499	Project*	2(0, 2)

## Semester 8

Course Code	Course Title	Credit Hours
HUM220	Introduction to Psychology	3(3, 0)
*****	Elective Institutional I	3(3, 0)
*****	Elective Institutional II	3(3, 0)
****	*Elective I	3(3, 0)
CSC499	Project	4(0, 4)

## BSCS Electives

Course Code	Course Title	Credit Hours
CSC302	Multimedia Authoring	3(3, 0)
CSC304	Multimedia Entertainment and Gaming	3(3, 0)
CSC306	Media Theory, DVD and Compositing	3(3, 0)
CSC308	Advanced Website Authoring	3(3, 0)
CSC310	Entertainment and Interactive Technologies	3(3, 0)
CSC330	E Commerce	4(3, 1)
CSC331	Digital Image Processing	3(3, 0)
CSC332	Network Security	3(3, 0)
CSC333	Applied Networking	3(1, 2)
CSC334	Distributed Computing	4(3, 1)
CSC536	Web Technologies and Programming	3(2, 1)
CSC341	Network Programming	4(3, 1)
CSC343	Network Design and Implementation	3(3, 0)
CSC344	Wireless and Mobile Computing	3(3, 0)
CSC345	Ubiquities and Pervasive Computing	3(3, 0)
CSC350	Learning Management Systems	3(3, 0)
CSC347	Problem Solving Techniques	3(3, 0)
CSC348	Information Systems Modeling and Design	3(3, 0)
CSC349	Open Source Server Administration	3(3, 0)
CSC361	IS Physical Design and Implementation	4(3, 1)

CSC373	Management Information Systems	3(2, 1)
CSC402	E Commerce Policy and Practices	3(3, 0)
CSC412	Cryptography	3(3, 0)
CSC421	Systems Programming	3(3, 0)
CSC442	Principles of Programming Languages	3(3, 0)
CSC443	Scripting Languages	3(3, 0)
CSC444	Visual Programming	3(3, 0)
CSC445	Modern Programming Languages	3(3, 0)
CSC446	Advanced Object Oriented Programming	3(3, 0)
CSC451	Multimedia and Hypermedia Systems	3(3, 0)
CSC452	Virtual Reality	3(3, 0)
CSC454	Computer Animations	3(3, 0)
CSC455	Computer Vision	3(3, 0)
CSC461	Neural Networks	3(3, 0)
CSC471	Distributed Database Systems	3(3, 0)
CSC482	Computer Law	3(3, 0)
CSC494	Software Project Management	3(3, 0)
CSC495	Enterprise Resource Planning	3(3, 0)
CSC496	Business Process Reengineering	3(3, 0)
CSC552	Virtual Reality for Entrepreneurship	3(3, 0)
CSC559	Mobile Database Systems	3(3, 0)
CSC571	Distributed Database Systems for Business	3(3, 0)
CSC573	Business Management Information Systems	3(3, 0)
CSC581	Business System Development	3(3, 0)
CSC582	Legal Framework for IT businesses	3(3, 0)
CSC593	Information Systems Engineering	3(3, 0)
CSC595	Business Enterprise Resource Planning	3(3, 0)
CSC596	Software Requirement Engineering	3(3, 0)
CSC303	Multimedia Documents and Publishing	3(3, 0)

## Note:

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## BS Business Administration

<b>Program Name</b>	BS (BA)
<b>Eligibility</b>	Intermediate or equivalent with minimum 50% marks, from an accredited educational institution. NTS as per CIIT policy.
<b>Session</b>	Fall and Spring
<b>Semesters</b>	8
<b>Number of years</b>	4 years
<b>Credit hours</b>	133

### Structure

#### Semester 1

Course Code	Course Title	Credit Hours
HUM100	English Comprehension and Composition	3(3, 0)
MTH108	Business Mathematics I	3(3, 0)
CSC101	Introduction to Computing	3(2, 1)
ECO100	Micro Economics	3(3, 0)
HUM110	Islamic Studies	3(3, 0)
MGT100	Introduction to Business	3(3, 0)

#### Semester 2

Course Code	Course Title	Credit Hours
MGT101	Introduction to Management	3(3, 0)
ECO101	Macro Economics	3(3, 0)
MTH109	Business Mathematics II	3(3, 0)
MGT130	Accounting I	3(3, 0)
HUM102	Report Writing Skills	3(3, 0)
HUM111	Pakistan Studies	3(3, 0)





## Semester 3

Course Code	Course Title	Credit Hours
MTH161	Introduction to Statistics	3(3, 0)
MGT230	Accounting II	3(3, 0)
MGT210	Fundamentals of Marketing	3(3, 0)
ECO200	Introduction to Development Economics	3(3, 0)
****	Humanities Elective I	3(3, 0)
HUM200	Business Communication Workshop	3(3, 0)

## Semester 4

Course Code	Course Title	Credit Hours
MGT232	Business Finance	3(3, 0)
MGT200	Management Practices	3(3, 0)
CSC373	Management Information Systems	3(2, 1)
MGT231	Cost Accounting	3(3, 0)
MTH264	Statistical Inference	3(3, 0)

## Semester 5

Course Code	Course Title	Credit Hours
LAW300	Corporate Law	3(3, 0)
MGT330	Financial Management	3(3, 0)
MGT300	Organizational Behavior	3(3, 0)
MGT301	Research Tools and Techniques	3(3, 0)
MGT310	Marketing Management	3(3, 0)



## Semester 6

Course Code	Course Title	Credit Hours
MGT362	Production and Operation Management	3(3, 0)
CSC330	E-Commerce	4(3, 1)
MGT350	Human Resource Management	3(3, 0)
MGT380	Global Business Management	3(3, 0)
****	Humanities Elective II	3(3, 0)

## Summer Semester

Course Code	Course Title	Credit Hours
MGT500	Internship	3(3, 0)

## Semester 7

Course Code	Course Title	Credit Hours
****	Language Elective	3(3, 0)
MGT403	Entrepreneurship	3(3, 0)
MGT463	Productivity and Quality Management	3(3, 0)
****	Specialization Elective I	3(3, 0)
****	Specialization Elective II	3(3, 0)

## Semester 8

Course Code	Course Title	Credit Hours
MGT433	Financial Institutions	3(3, 0)
MGT501	Strategic Management	3(3, 0)
MGT461	Project Management	3(3, 0)
****	Specialization Elective III	3(3, 0)
****	Specialization Elective IV	3(3, 0)

## Language Electives

Course Code	Course Title	Credit Hours
HUM430	French	3(3, 0)
HUM432	Arabic	3(3, 0)
HUM433	Persian	3(3, 0)
HUM431	German	3(3, 0)

## Humanities Elective I and II

Course Code	Course Title	Credit Hours
HUM220	Introduction to Psychology	3(3, 0)
HUM221	International Relations	3(3, 0)
HUM223	Introduction to Philosophy 3(3, 0)	3(3, 0)
HUM320	Introduction to Sociology	3(3, 0)
HUM310	Islamic History	3(3, 0)

## Marketing Specialization

Course Code	Course Title	Credit Hours
MGT510	Consumer Behavior	3(3, 0)
MGT511	International Marketing	3(3, 0)
MGT512	Cyber Marketing	3(3, 0)
MGT513	New Product Development	3(3, 0)
MGT514	Integrated Marketing Communications	3(3, 0)
MGT515	Brand Management	3(3, 0)
MGT516	Service Marketing	3(3, 0)
MGT517	Industrial Marketing	3(3, 0)
MGT518	Marketing Research	3(3, 0)
MGT519	Strategic Marketing	3(3, 0)
MGT520	Advertising and Event Management	3(3, 0)
MGT521	Sales Force Management	3(3, 0)
MGT522	Marketing of IT and Telecom Products	3(3, 0)

MGT523	Customer Relation Management	3(3, 0)
MGT524	Agriculture Marketing	3(3, 0)
MGT525	Seminar in Marketing	3(3, 0)

## Finance Specialization

Course Code	Course Title	Credit Hours
MGT526	Marketing Financial Services	3(3, 0)
MGT530	International Finance	3(3, 0)
MGT531	Investment and Portfolio Management	3(3, 0)
MGT532	Advanced Financial Management	3(3, 0)
MGT533	International Financial Institutions	3(3, 0)
MGT534	Credit Management	3(3, 0)
MGT535	Corporate Finance	3(3, 0)
MGT536	Commercial Banking	3(3, 0)
MGT537	Financial Statement Analysis	3(3, 0)
MGT538	Business Taxation	3(3, 0)
MGT539	Islamic Finance	3(3, 0)
MGT540	Seminar in Finance	3(3, 0)
MGT541	Real Estate Finance	3(3, 0)

## Human Resource Management Specialization

Course Code	Course Title	Credit Hours
MGT549	Leadership and Team Management	3(3, 0)
MGT550	Crisis and Conflict Management	3(3, 0)
MGT551	Human Resource Development	3(3, 0)
MGT552	Compensation Management	3(3, 0)
MGT553	Human Resource Information Management	3(3, 0)
MGT554	Organizational Development and Change Management	3(3, 0)
MGT555	Performance and Career Management	3(3, 0)
MGT556	International Human Resource Management	3(3, 0)

MGT557	Strategic Human Resource Management	3(3, 0)
MGT558	Employee Relation Management	3(3, 0)
MGT559	Seminar in Human Resource Management	3(3, 0)

## Information Technology Specialization

Course Code	Course Title	Credit Hours
CSC501	Seminars in IT for Businesses	3(3, 0)
CSC536	Web Technologies and Programming	3(3, 0)
CSC552	Virtual Reality for Entrepreneurship	3(3, 0)
CSC561	Knowledge Management and IT	3(3, 0)
CSC571	Distributed Database Systems for Business	3(3, 0)
CSC572	Managing Business Databases	3(3, 0)
CSC573	Business Management Information Systems	3(3, 0)
CSC581	Business System Development	3(3, 0)
CSC582	Legal Framework for IT Businesses	3(3, 0)
CSC591	Applied Software Engineering for Business	3(3, 0)
CSC595	Business Enterprise Resource Planning	3(3, 0)

### Note:

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For more details and updates, please visit CIIT Course Catalogue Portal

## Bachelors of Science in Software Engineering

<b>Program Name</b>	BS (SE)
<b>Eligibility</b>	Intermediate or equivalent with Mathematics, with minimum 50% marks from an accredited educational institution. NTS as per CIIT policy.
<b>Session</b>	Fall and Spring
<b>Semesters</b>	8
<b>Number of years</b>	4 years
<b>Credit hours</b>	139

Software Engineering bridges gap between computer science theory and its practical applications using different technologies and tools. SE discipline focuses on imparting the practical knowledge and technical training which should enable students to harmonize theory with practice, concepts with applications, and problems with solutions. a software engineering program in COMSATS Institute of Information technology will prepare professionals who have a mastery of software development principles, theory, practice, and process to develop high quality software applications. Software Engineering graduates prepared will have grounding in communication, mathematics, sciences, cultural, ethical, and social issues that influence and affect to the development of high quality software systems.

### Structure

#### Semester 1

Course Code	Course Title	Credit Hours
CSC103	Introduction to Computers and Programming	4(3, 1)
MTH104	Calculus and Analytic Geometry	3(3, 0)
EEE121	Electric Circuits Analysis I	4(3, 1)
HUM100	English Comprehension and Composition	3(3, 0)
HUM110	Islamic Studies	3(3, 0)

## Semester 2

Course Code	Course Title	Credit Hours
CSC244	Object Oriented Concepts and Programming	3(3, 0)
CSC245	Object Oriented Concepts and Programming-Lab	1(0, 1)
EEE241	Digital Logic Design	4(3, 1)
MGT101	Introduction to Management	3(3, 0)
	Supporting Science Elective I	3(3, 0)
HUM102	Report Writing Skills	3(3, 0)
HUM111	Pakistan Studies	3(3, 0)

## Semester 3

Course Code	Course Title	Credit Hours
CSC291	Software Engineering I	3(3, 0)
CSC114	Data Structures and Algorithms	3(3, 0)
CSC115	Data Structures and Algorithms-Lab	1(0, 1)
MTH231	Linear Algebra	3(3, 0)
CSC222	Computer Organization and Assembly Language	3(3, 0)
CSC223	Computer Organization and Assembly Language-Lab	1(0, 1)
HUM103	Communication skills	3(3, 0)

## Semester 4

Course Code	Course Title	Credit Hours
CSC322	Operating Systems Concepts	3(3, 0)
CSE300	Software Construction	2(2, 0)
CSE301	Software Construction-Lab	1(0, 1)
EEE440	Computer Architecture	3(3, 0)
CSC110	Professional Practices IT	3(3, 0)
CSC272	Database Systems	3(3, 0)
CSC273	Database Systems-Lab	1(0, 1)

## Semester 5

Course Code	Course Title	Credit Hours
CSE305	Software Requirement Engineering	3(3, 0)
MTH262	Statistics and Probability Theory	3(3, 0)
CSC352	Computer Communication and Networks	3(3, 0)
CSC353	Computer Communication and Networks-Lab	1(0, 1)
	GE/ Institutional Elective I	3(3, 0)
CSE	SE Elective I *	3(3, 0)
HUM320	Introduction to Sociology	3(3, 0)

## Semester 6

Course Code	Course Title	Credit Hours
CSE302	Software Quality Engineering	3(3, 0)
CSE303	Software Design and Architecture	3(3, 0)
CSE304	Formal Methods in Software Engineering	3(3, 0)
	Supporting Science Elective II	3(3, 0)
CSE	SE Application Domain Elective I*	3(3, 0)

## Semester 7

Course Code	Course Title	Credit Hours
CSE499	Project *	2(0, 2)
CSC456	Human Computer Interaction	3(3, 0)
CSC494	Software Project Management	3(3, 0)
CSE354	Design Patterns	3(3, 0)
CSE	SE Application Domain Elective II	3(3, 0)





## Semester 8

Course Code	Course Title	Credit Hours
CSE499	Project	4(0, 4)
CSE362	Software Testing	3(2, 0)
CSE363	Software Testing-Lab	1(0, 1)
CSE	SE Elective II	3(3, 0)
CSE	SE Elective III	3(3, 0)

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## Bachelor in Business Studies

<b>Program Name</b>	BBS
<b>Eligibility</b>	Fourteen years of education in relevant field with minimum 2.0/4.0 CGPA or 50% marks (annual system) from an accredited educational institution. NTS as per CIIT policy
<b>Session</b>	Fall and Spring
<b>Semesters</b>	4
<b>Number of years</b>	2 years
<b>Credit hours</b>	66

### Structure

#### Semester 1

Course Code	Course Title	Credit Hours
MGT430	Financial Accounting and Reporting	3(3, 0)
MTH469	Business Mathematics and Statistics	3(3, 0)
MGT410	Marketing Theory and Practice	3(3, 0)
ECO400	Business Economics	3(3, 0)
MGT400	Drama – I Management Theory and Practice	3(3, 0)
CSC401	Computing for Management	3(2, 1)

#### Semester 2

Course Code	Course Title	Credit Hours
HUM400	Business Communication	3(3, 0)
MGT450	HRM Policies and Practices	3(3, 0)
MGT431	Managerial Accounting	3(3, 0)
MGT411	Marketing Planning and Implementation	3(3, 0)
MGT432	Financial Management and Policy	3(3, 0)

## Semester 3

Course Code	Course Title	Credit Hours
MGT401	Corporate Governance	3(3, 0)
MGT402	Research Methodology	3(3, 0)
MGT460	Operations Management	3(3, 0)
MGT480	International Business	3(3, 0)
MGT485	Electronic Business	3(3, 0)

## Semester 4

Course Code	Course Title	Credit Hours
MGT599	Business Policy and Strategy	3(3, 0)
MGT403	Entrepreneurship	3(3, 0)
XXXXXX	Elective I	3(3, 0)
XXXXXX	Elective II	3(3, 0)
XXXXXX	Elective III	3(3, 0)

## Summer Semester

Course Code	Course Title	Credit Hours
MGT500	Internship	3(3, 0)

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