

**EAST
WEST
UNIVERSITY**

1991



"A meaningful synthesis of
eastern culture and values
with western thought and
innovation"

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East West University

**Excellence in
Education**

**45-46, Mohakhali C.A.
Dhaka – 1212**

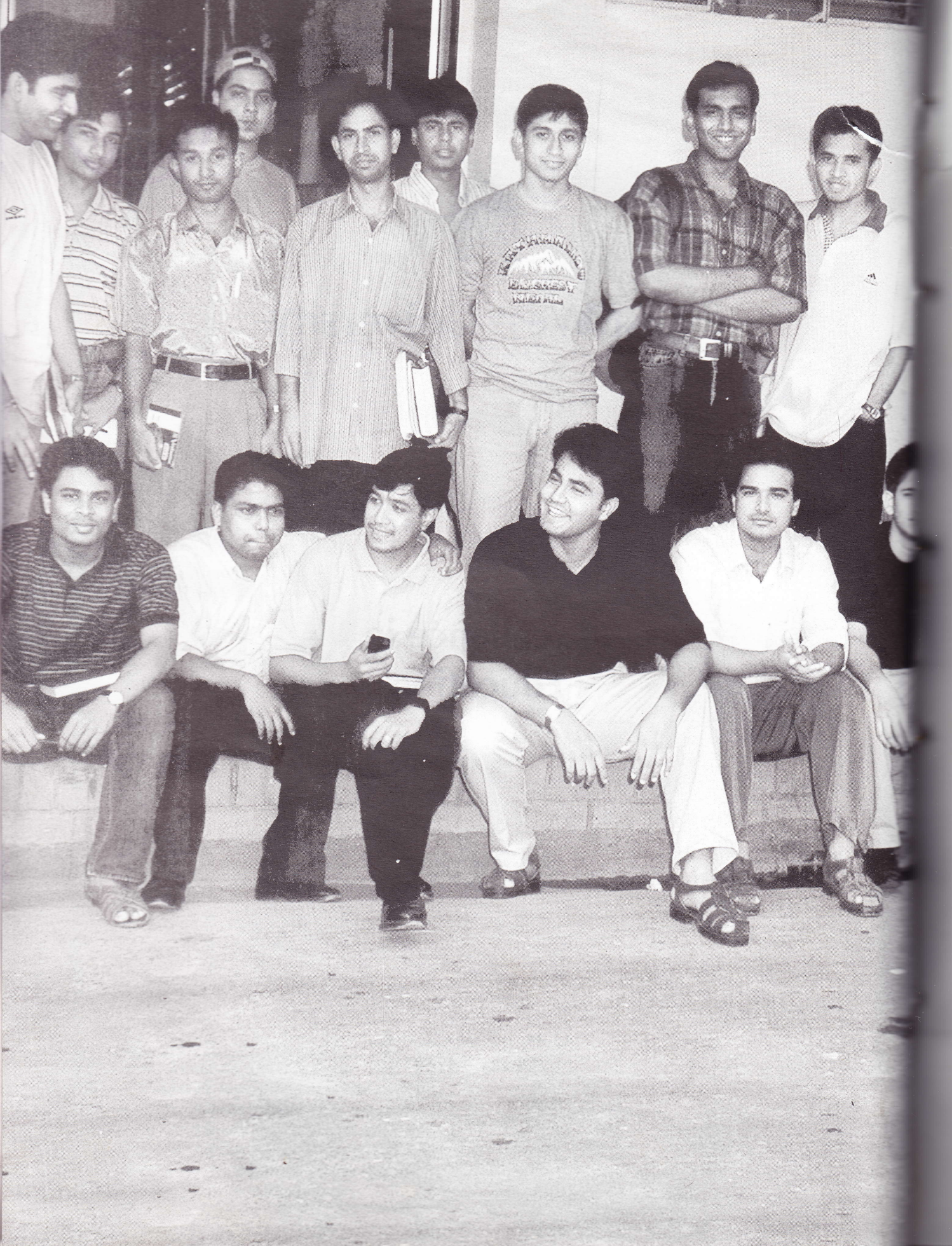


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UNIVERSITY PROFILE

Mission Statement

In keeping with its name, East West University (EWU) endeavors to synthesize the eastern culture and values with western thought and innovation. As an institution of higher learning that promotes and inculcates ethical standards, values and norms, East West University is committed to the ideals of equal opportunity, transparency, and non-discrimination.

The primary education mission of East West University is to provide, at a reasonable cost, post-secondary education characterized by academic excellence in a range of subjects that are particularly relevant to current and anticipated societal needs. Central to the University's mission is providing students with opportunities, resources and expertise to achieve academic, personal and career goals within a stimulating and supportive environment. East West University is striving not only to maintain high quality in both instruction and research, it is also rendering community service through dissemination of information, organization of training programs and other activities. Sensitive to the needs of its students and staff, East West University is committed to providing a humane, responsive and invigorating atmosphere for productive learning and innovative thinking.

History

The idea of establishing a private university to provide quality education at an affordable cost in Bangladesh was first mooted by a group of prominent academics, business leaders, professionals and education enthusiasts led by Dr. Mohammed Farashuddin. With this end in view, this group formed a non-profit, non-political, charitable organization called **Progoti Foundation for Education and Development** (PFED). EWU is its first major project. This Foundation is chaired by Syed Manzur Elahi, an Advisor in the Caretaker Government of Bangladesh 1996.

After being accorded permission by the Government under the provisions of the Private University Act (Act 34) of 1992, East West University (EWU), was launched in 1996. On 05 August, 1999 it organized a lively seminar on "Bangladesh Towards 21st Century : Development Options, Opportunities and Constraints" which was inaugurated by the Honorable Minister of Finance of the Government of the People's Republic of Bangladesh, Mr. Shah A.M.S. Kibria. Among the participants were a very distinguished group of thinkers, economists, donor representatives, academics, and policy-makers. The key note paper was presented by Professor Nurul Islam, the first Deputy Chairman (Minister) of the Bangladesh Planning Commission.

The first class started in September of 1996 with 6 (six) faculty members and 20 (twenty) students in the present campus at 45 Mohakhali Commercial Area.

Accreditation and Collaboration 3

East West University has been accredited by the Government of the People's Republic of Bangladesh, and its curricula as well as programs have been approved by the University Grants Commission of Bangladesh. The President of the People's Republic of Bangladesh is the Chancellor of EWU. The Vice-Chancellor, the Pro Vice-Chancellor, and the Treasurer of the University, are appointees of the President of the country in his capacity as the Chancellor of the University.

East West University has entered into formal collaboration agreements with some leading universities in the USA. They are as follows :

- Pace University (New York).
- Suffolk University (Boston).
- Southern Illinois University at Carbondale.

Academic Cooperation is currently being negotiated with a number of other well-known universities in the USA, UK, and Australia.



Degrees Offered ⁴

Currently, EWU offers the following four-year Bachelors degrees :

- B.A. in English
- B.B.A. (Majors in Accounting, Marketing, Finance, Management, International Business, and MIS)
- B.S.S. in Economics
- B.Sc. in Computer Science
- B.Sc. in Communication & Information Technology
- B.Sc. in Environment, Health and Population.

In future, four-year Bachelor's degrees will be offered in areas such as,

- Environmental Studies
- Management Information System (MIS)
- Population Sciences
- Health Management and
- Gender Issues.

East West University also has a Executive MBA Program.

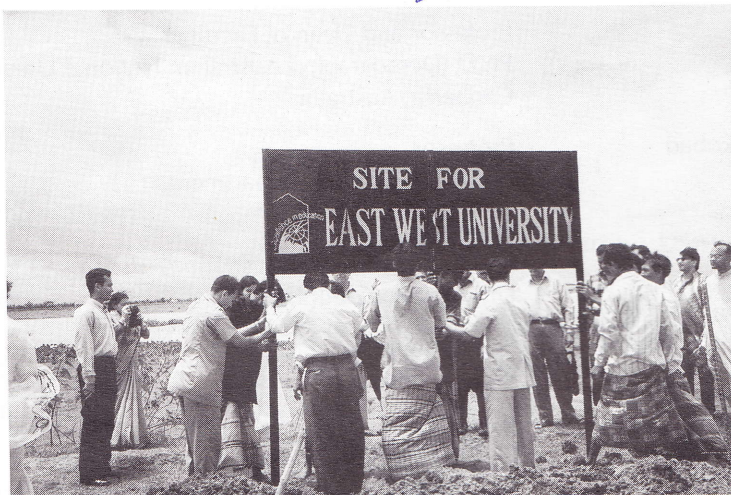
The medium of instruction is English in all programs offered by East West University.

Location ⁵

The temporary campus of the University is located at Mohakhali. It consists of 2 (two) six-storied adjacent buildings with 31,225 sft. of space. It is situated in the heart of the city and can be easily accessed by all modes of public transportation.

With a view to shifting to its own campus, East West University (EWU) has purchased 449.75 decimals of land at Mouja Vadham, P.S. Tongi, District- Gazipur. EWU has also received allotment of 10 (ten) kathas of land at Sector 8, Uttara from Rajuk.

The University expects to get possession of the land allotted by Rajuk by the end of 1999 and start construction immediately thereafter. The plan is to move to its own campus within the time frame provided for in the Private University Act, 1992.



Library

At present the Library has 7044 volumes of books. These include text books as well as reference books. It subscribes to thirty journals, magazines and newsletters.

- a) Students and Faculty members have full access to the library.
- b) A member of the Faculty can borrow related text (s) for a full semester and books at a time for a month.
- c) A student can borrow two books at a time for a period of four days.
- d) Members of the Academic Council enjoy facilities similar to Faculty members.
- e) The Library offers open access to its shelves. Books have a classified shelf arrangement. The Library utilizes CDS/ISIS, a software developed by UNESCO, to provide information about the collections of the Library.
- f) Current Awareness Services (CAS) are also provided from time to time to Faculty members and students.

Faculty

Faculty members are chosen through a rigorous selection process. Applications are first scrutinized at the department level, and then processed through an Appointments Committee of the University.

Acting on the recommendations of the Appointments Committee, the Board finally appoints Faculty members.

At the moment East West University has 29 full time Faculty members and 9 of them are women. In addition, there are 40 full time non-teaching staff and 22 of them are women.

EWU's highly qualified Faculty members, most of whom teach on a full-time basis, include :

Current EWU Faculty

Name	Academic Qualifications and Position
Dr. Mohammad Musa	Pro Vice-Chancellor & Professor of Finance Ph.D. University of Wisconsin-Milwaukee
Dr. Sultan Ahmad	Professor and Dean of Faculties Ph.D (Demography) Australian National University Canberra, Australia
Dr. Mohammad Kaykobad	Professor Computer Science Department.
Dr. M.A. Mannan	Professor Ph.D. (Business Administration) University of Delhi, India.
Dr. Abdul Musawwir Choudhury	Supernumerary Professor Ph.D. (London University)
Dr. Md. Mozammel Huq Azad Khan	Professor Ph.D. (Computer Science and Engineering) Bangladesh University of Engineering and Technology

Name	Academic Qualifications and Position
Mr. Syed Akther Hossain	Assistant Professor M.Sc (Applied Physics & Electronics Rajshahi University.
Mr. Khaled Hamid Chowdhury	Assistant Professor M.A. (Legal Studies), University of Newcastle – upon Tyne, U.K.
Mr. Gazi Mainul Hassan	Assistant Professor MA (Economics) University of Kent at Canterbury, U.K.
Dr. Golam Ahmed Faruqui	Assistant Professor Ph.D. (La Salle University, Mandeville), USA.
Mr. Mohammad Azizur Rehman	Assistant Professor MBA, Dhaka University
Dr. Asiya Hamid Rao	Assistant Professor Ph.D. (English), Jamia Mille Islamic University, New Delhi.
Dr. Nilima Choudhury	Assistant Professor Ph.D. (Psychology) Calcutta University, India.
Ms. Roksana Khurshid	Lecturer M.S.S. (Anthropology) University of Dhaka.
Ms. Aleya Siddika	Lecturer MA (Applied Linguistics & ELT) University of Dhaka.
Ms. Mamta Sinha Kishore	Lecturer MA (English) Ramchi University, India.
Ms. Anindita Paul	Lecturer MA (Mathematics) Jahangirnagar University.
Ms. Afsana Akhter	Lecturer (Marketing) MBA, IBA, Dhaka University.
Mr. Feroz Ahmed	Lecturer MBA, IBA, Dhaka University.
Mr. S. S. M. Sadrul Huda	Lecturer (Marketing) Master of Science Wagenijen Agricultural University, the Netherland.
Mr. Md. Ziaul Hoq	Lecturer MBA, European University.
Ms. Suraiyah Akbar	Lecturer (Marketing) M.Com, Dhaka University.

TUITION AND OTHER FEES 7.

Fees, presented below, are lower than most of the major private universities of comparable standard in Bangladesh.

The current fee schedule is as follows :

1. Admission Fee (one-time)	Taka 10,000
2. Course Fee	Taka 2,600 Per credit hour
3. Laboratory Fee	Taka 800 per semester for Computer Science, CIT.
	Taka 400 per semester for all other students.

Total fees for a typical student to graduate are delineated below :

	BBA	B.Sc.	Social Science Liberal Arts.
Admission Fee	10,000	10,000	10,000
Course Fee	3,12,000	3,12,000	3,12,000
Lab Fee	4,800	9,600	4,800
Total	3,26,800	3,31,600	3,26,800

The University also offers remedial (non credit) courses in English and Mathematics free of cost for one semester only. Passing these remedial courses is a prerequisite for continuing as a student. If a student fails in the remedial courses in the first attempt, he/she will have to pay regular course fees during subsequent registration.

Students must pay semester fees in full on the day they register. A late registration fee of Taka 500.00 is imposed on students who register or pay their fees after the regular registration period. A student's obligation to pay regularly assessed tuition and fees is not reduced by approval to defer payment. All dues are expected to be paid before the final examination.

Financial Aid 7(a)

The Private University Act of 1992 provides that private universities should extend scholarships to 5 (five) per cent of its poor but meritorious students. East West University firmly believes that nurturing talent is essential for establishing an equitable and exploitation free civil society in Bangladesh. The avowed policy of the University is to support meritorious students who need financial assistance. Anyone who has secured a place in the HSC examinations of that year or anyone with equivalent results (in O and A levels) is entitled to a full-tuition scholarship for thirty-credit academic year. From the second year onwards, at least the top ten percent of full-time students are awarded full-tuition scholarships for the next 30-credit academic year. A number of other merit scholarships are also available for needy students. For scholarship purposes, a full-time student is one who has completed at least 30-credit hours in three consecutive semesters.

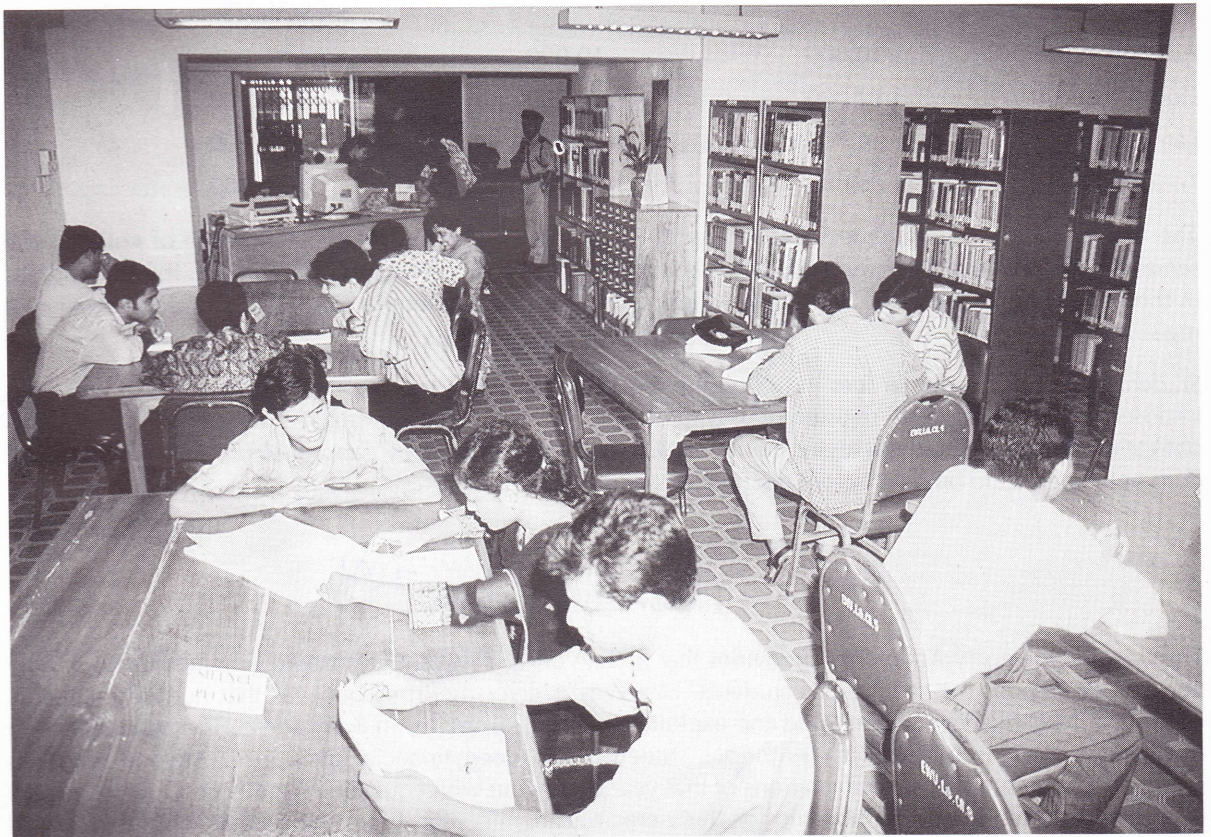
Refund Policy

Applications for withdrawal from the University or from a course after the registration period is over must be made in writing to the Registrar. Merely notifying an instructor will not do. In cases of authorized withdrawals, and changes in schedule/registration, (adds and drops) adjustment of semester tuition and fees will be made as per provisions mentioned in the academic calendar.

No refunds after three weeks of classes

No adjustment is authorized for the Admission fee or other assessed fee. Financial assistance will be projected on the same basis as the adjustment policy.

Withdrawal as a result of serious illness or disabling accident will be subject to review by the University for possible variations from the policy described above. Such events are considered on a case to case basis. No adjustment will be made for a student who is suspended, dismissed, or expelled for academic difficulties, or for breach of discipline.



UNDERGRADUATE STUDIES

Undergraduate Admission and Registration

Admission

Prospective students should obtain a EWU admission form by paying in cash or by sending a bank draft for Taka 300 or US\$ 10 to the Registrar's Office. The student should return the completed application form to the Registrar's Office within the stipulated time. All correspondence and inquiries concerning admission to the University should be addressed to this office.

Students seeking admission to EWU must pass an admission test. The date of the test is announced in major daily newspapers. Students are tested on English Language (structure, vocabulary, comprehension and composition) and Basic Mathematics. Those who want to study Computer Science are required to have competence in HSC-level Mathematics, while others are required to have reasonable proficiency in SSC-level Mathematics. Those who seek admission in BA (English) are exempted from the Math Test.

Results of Admission test are announced within 3 days of the test. A list of successful candidates is posted in the Bulletin Board of the University.

Registration

The Admission Office will notify newly accepted students about the time and place of their registration. Students are responsible for fulfilling all requirements of the degree program to which they are admitted. They should consult their advisors in planning their course schedules and be familiar with EWU policies and procedures related to registration and graduation requirements for their degrees. No registration is completed until all fees are paid.

A student may not register after the schedule date of registration mentioned in the academic calendar except by special permission of the Dean of Faculties. To avoid late fees (of taka 500.00) students must register during scheduled registration periods.

Admission Requirements

Minimum qualifications for admission to undergraduate programs are as follows :

Academic Qualifications :

- (a) At least a high second division in SSC and HSC examinations or University of London GCE "O"-Level in 5 subjects with at least 10 points in five subjects and "A"-Level in two major subjects. Applicants without A-Levels are generally required to complete six credit hours of additional course work at EWU to compensate for A-Level subjects.

or

- (b) A North American high school diploma or equivalent.
- (c) Acceptable scores in EWU's Admission Test or a minimum score of 1100 in the Scholastic Aptitude Test (SAT) and at least 550 in the Test of English as a Foreign Language (TOEFL).

Plus Course students or students with a two year Bachelor's degree from a recognized university can apply for admission into the four-year undergraduate program. However, EWU will consider applications for credits only in cases where previous academic work meets EWU degree requirements and the student has scored at least 50% marks.

Application forms are available for Tk. 300 at EWU Accounts, 45 Mohakhali, Dhaka 1212. To receive application forms by mail, write to the office of the Registrar along with a bank draft or money order for Tk. 300 in favour of East West University. Please print the name and address of the applicant. However, it is preferable to collect application forms personally.

Credit Transfer

Transfer applicants are considered for admission based on the result of the admission test and work completed at all public universities of Bangladesh, North South University, and Independent University of Bangladesh. Credit is generally transferable, provided that course work has been successfully completed and is equivalent to that offered at East West University.

Faculty members evaluate transfer work according to an established procedure, usually after students are enrolled and complete transfer records are on file. Courses taken at other institutions may satisfy the core curriculum requirements only if the courses are equivalent to EWU courses approved for the core curriculum and a grade of C or higher was earned. Course equivalencies are determined on the basis of contents, prerequisites, writing requirements, and level. Courses taken at other institutions that do not correspond to courses offered at the university may be transferred as elective credits. Such course may fulfil degree requirements at the discretion of the major department. Some transfer students may be required to sit for placement examinations to determine eligible for obtaining credit.

Academic Advising

Each student is assigned an academic advisor at the beginning of the school year who assists the student in defining educational goals to be reached; gives information regarding curricula, and graduate programs; and discuss personal problems the student may have especially those related to the student's academic progress and plans for subsequent pursuits. Students are expected to schedule appointments with their advisors during pre-registration and at other times throughout the semester as needed.

Students must inform their advisors of any special needs or deficiencies which might affect academic performance or selection of courses. Students are expected to know academic policies, procedures and degree requirements and must remain informed about their progress in meeting these requirements.

Students are encouraged to seek assistance as needed from the advisor and take advantage of student support services provided by the University.

Course Registration

Registration for any session of the University is contingent upon being eligible for registration. Thus advance registration, including the payment of tuition and fees, are considered to be invalid if the student is later declared to be ineligible to register due to scholastic reasons. The student may also be considered ineligible to register because of financial or disciplinary reasons. Detailed informations about dates and procedures for advisement and registration are given in each semester's academic calendar of the University, which is available in the admissions office of EWU.

Students should also be familiar with the following general points about Registration.

1. Registration for a semester is conducted under an academic calendar. Registration starts immediately preceding the start of classes and late registration continues till the second week of classes.
2. Transfer students are provided with the opportunity to advance register on specific new students registration days.
3. Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class. Students should complete the registration process before classes begin.
4. Enrollment changes to courses can only be made through the processing of an official registration form.

5. After the second week of the semester, the Office of Admissions and Records must process the Official Registration form.
6. Tuition and fees are payable in advance or by installments (with prior approval). A student shall not be enrolled until at least the first installment of tuition and fees have been paid or officially deferred.
7. Students may not drop a course merely by stopping attendance.

Late Registration

A student who seeks to register after the first day of the semester must have the permission of the Dean of Faculties. Those students who are given permission to register late must pay a late registration fee of Tk. 500.

Orientation

All new students are expected to participate in an orientation program. This takes place at the onset of each semester. The orientation program acquaints the student with University policies and the educational opportunities, facilities and services available at the University.

Student Identification Cards

All students will receive photo identification cards with their students numbers. These cards will be used for various purposes such as entering campus, attending classes, using the library, and in accessing computers.

Adding and Dropping Courses

Students who seek to add or drop courses should consult their advisors first. They must also obtain the signatures of the instructors of the relevant courses.

The last day for dropping a course with and without a record entry (i.e. "W") is mentioned in the semester academic calendar.

The instructor may drop students from a course after two weeks of the semester if they have neither attended any of the scheduled class meetings nor notified the instructor of their intent to take the course. For this purpose, registration and payment of tuition for course do not constitute sufficient notification of intent to take a course.

Students may add courses only within the date mentioned in the Academic Calendar if space is available and if they have the permission of their academic advisors.

Change of Degree Program

Any student who wishes to change his/her major has to apply to the Dean of Faculties for permission to do so within the first year (three consecutive semesters) of his/her admission. Once the permission is granted, the student concerned must fulfil the following requirements within six semesters of his/her date of admission. The specific requirements of transfer to the particular major are set out below:

1. **To change to Computer Science :**
The applicant must secure a minimum grade of 'B' in both MAT 100 or MAT 110 and MAT 101 within the specified period.
2. **To change to BBA :**
The applicant must secure a minimum grade of 'B' in both BUS 101 and MAT 100 or MAT 110 within the specified period.
3. **To change to English :**
The applicant must secure a minimum grade of 'B' in both ENG 101 and ENG 102 within the specified period.

4. **To change to Economics :**

The applicant must secure a minimum grade of 'B' in both MAT 100 or MAT 110 and ECO 101 within the specified period.

Alternatively, the applicant may appear in the subsequent admission test and qualify for the department to which (s)he wants to study. For appearing in the subsequent admission test, the applicant must inform the Registrar.

Class Hours

First Day of Semesters

Fall : Fourth Sunday of September
Spring : Fourth Sunday of January
Summer : Fourth Sunday of May

Classes are held from Sunday through Thursday. All undergraduate classes meet two times a week. If classes cannot be held due to unavoidable reasons, makeup classes are arranged as follows : classes of Sunday and Tuesday slots are held on Thursday, and classes of Monday and Wednesday slots are held on Saturday.

Grading and Performance Evaluation

A student may earn five letter grades on the basis of his/her performance in a course. The letter grades A, B, C, and D are considered passing grades. The grade F is the failing grade. The numerical equivalents of the grades are given below :

Numerical Scores	Letter Grade	Grade Point
90-100	A+	4.00
	A Excellent	4.00
	A-	3.7
80-85	B+	3.3
	B Good	3.0
	B-	2.7
70-75	C+	2.3
	C Satisfactory	2.0
	C-	1.7
60-65	D+ Poor	1.3
	D	1.0
	F* Failure	0.0
	I** Incomplete	0.0
	W** Withdrawal	0.0
	R** Repeat	0.0

* Credits for courses with this grade does not apply towards graduation.

** Credits for courses with these grades do not apply towards graduation and are not used for the calculation of the grade point average.

The exact cut off points for assigning letter grades is at the discretion of individual instructors. The same applies to the assignment of + or - after a letter grade. This is meant to give more flexibility so that shades of performance can be distinguished and rewarded with the + and - value of 0.3 grade point.

Grade Point Average (GPA)

Student's grade point average are numerical values obtained by dividing the total grade points earned by the credits attempted. Only courses graded A+, A, A-, B+, B, B-, C+, C, C-, D+, D, and F are used to determine credits attempted.

Incomplete (I)

The grade of "Incomplete" (I) may be used in special circumstance. The "Incomplete" may be given only at the end of a semester to a student who has completed all other requirements except the final examination without further class attendance. The instructor must file with the Registrar an Incomplete Grade Form describing the work to be completed.

The student has the responsibility to take the initiative in making up the Incomplete as specified by the instructor. If action is not taken within three weeks of commencement of the next semester, the "I" grade will automatically be converted to "F", otherwise the "I" grade will revert to the tentative final grade (the final grade becomes an "F" if no tentative grade was assigned). In the event where the instructor from whom a student received an incomplete grade is not available, the disposition of the case involving an incomplete grade resides with the Dean of Faculties.

Withdrawal (W)

The grade "Withdrawal" (W) is assigned when a student officially drops a course within the date mentioned in the academic calendar for the semester.

Repeat (R)

If a student fails to get a passing grade in a course, he/she will be awarded a "F" grade and will have to repeat the course. When the student gets a passing grade, then the grade "F" received at the first attempt will be converted to "R", but "F" at the subsequent attempts will remain and will be counted in calculating GPA. In these situations the original registration showing course, credits and the grade of the last attempt will be used to calculate the GPA to fulfil graduation requirements. Courses repeated by a student after earning a degree will not retroactively affect graduation requirements.



Academic Probation

Students whose CGPA will be between 1 and 2 after the first two semesters will be placed on probation for the next two semesters. If students placed on probation fail to raise their CGPA to at least 2 after the probation period they will face dismissal from the course. If a student's CGPA falls below 2 subsequently he/she will again be placed on probation.

Academic Dismissal

A student whose CGPA will be below 1 after the first two semesters will be automatically dismissed from the course. Students who fail to pass in remedial courses in two attempts will also be automatically dismissed from these courses. Students who fail to raise CGPA to satisfactory levels during the probation period will face dismissal from the course.

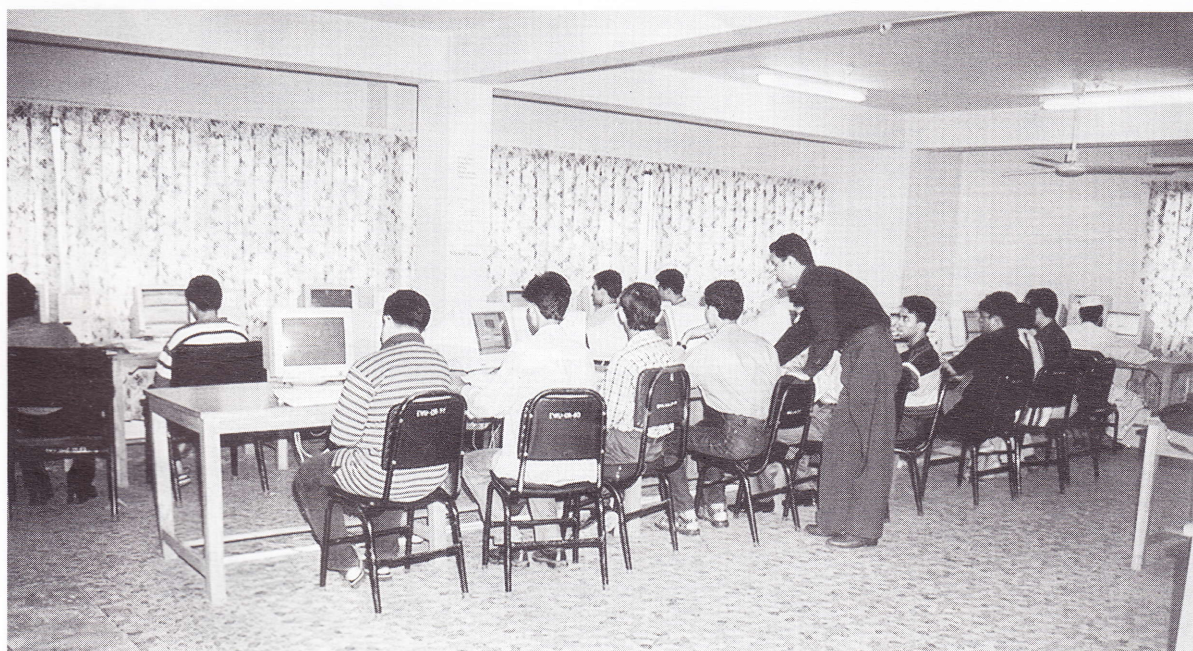
Once dismissed for scholastic failure, a student is ineligible to enroll in further courses, and re-admission to the University will not be allowed.

Leave of Absence

A leave of absence may be granted for up to three semesters to a student in good academic standing (not on academic probation or subject to dismissal). A student applying for a leave of absence must give a definite semester for re-registration and must register within three semesters of the date of leaving school. Only one leave of absence can be granted. A leave of absence is granted through the Dean of Faculties office. A student who does not return for re-registration at the specified semester will be classified as "Official withdrawal" and must apply for re-admission through the Admissions Office.

Grade Report

Grade reports are generated by the Registrar's Office and mailed to every registered student and also to his/her guardian soon after the conclusion of each semester. Students are solely responsible for their academic progress and should consult immediately with their academic advisors in the event their performance becomes unsatisfactory. Failure to maintain satisfactory progress can lead to loss of financial aid, academic probation, or dismissal, or other equally serious consequences.



8 Code of Conduct

EWU strives to maintain a healthy academic atmosphere on its campus. Students are expected to do their part in achieving this goal by attending classes regularly, making appropriate use of all campus resources in a way as to enhance their academic achievements, maintaining discipline, keeping the campus clean, and being good neighbours and models citizens.

Discipline Committee

Any act of indiscipline, offence, or grievance committed by a student may be reported to the Proctor of EWU in writing by a student or staff/faculty for necessary action subsequently.

A Discipline Committee formed by the Board of Directors of EWU will act independently to ascertain facts. Consequent to the findings of the Discipline Committee, existing EWU rules and policies will be enforced.

Academic Honesty

There is a zero tolerance policy on cheating. Any form of cheating, such as copying any document or another person's work, seeking or providing help to other students during tests, or adopting any other form of unfair means during exams, will constitute grounds for disciplinary action. Instructors are expected to use reasonably practical means of preventing and detecting cheating. Any student found to be cheating will be reported to the Dean of Faculties by the relevant faculty member for disciplinary action. The Discipline Committee will recommend necessary action to be taken as per University rules.

Graduation

Graduation Requirements

Meeting the graduation requirement is each student's responsibility. This includes the following :

1. A minimum of 120-135 credits for a bachelor's degree, of which at least half must have been earned at EWU in a degree program (residency requirement). Candidates for BA, BBA and BSS degree will be required to earn no more than 120 credits and B.Sc degree candidates majoring in Computer Science 129 credits.
2. Completion of all course requirements for the degree/major.
3. No outstanding financial obligation to EWU.

Fulfilment of the above conditions does not necessarily mean that a degree will be conferred on the student. The University reserves the right to refuse the awarding of a degree on disciplinary and similar grounds.

EMBA PROGRAM

The executive MBA Program of East West University Business School enables students to earn an MBA degree, which is designed according to the guidelines of the American Assembly of Collegiate School of Business (AACSB). The contemporary and innovative curriculum is fueled by a compelling philosophy of teaching that allows students to maximize their performance. The curriculum encourages students to sharpen both their analytical and communication skills-placing a balanced emphasis on quantitative and qualitative approaches. A range of a specialized and interdisciplinary courses focus on building leadership abilities as they teach students to manage strategically in a global, technologically advanced environment.

Mission

Enhancing a manager's capabilities across functional areas is the primary mission of the Executive MBA program of East West University Business School. The program intends to provide students' with an integrated understanding of how to manage organizations more effectively and in a socially responsible manner. This program also creates relevant and rigorous academic experiences, which serve the professional needs of its adult learners through an integration of practical, professional, and ethical components in an innovative and caring environment.

Objective

The program intends to develop managers who are not only technically competent but have a broader understanding of their roles as agents of change in solving the problems of society and improving social justice. It seeks to :

- Enhance the ability of students to identify business operations and resolve managerial problems.
- Help students understand the dynamics of business operations in an increasingly complex global environment and in responding to the management challenges and choices of the environment.
- Develop students' understanding of the functional areas of business and develop a general perspective of their interrelationship.
- Enhance critical thinking and develop communication interpersonal and leadership skills of students to work effectively with others and lead teams to accomplish objectives.

Length of Program

Students will normally complete the requirements for the executive MBA degree within two years of their admission. Students may complete the degree in one year and four months by enrolling in four consecutive semesters.

Course Load

Full and part-time status are defined as follows :

Full time = 8+ credits per semester

$\frac{3}{4}$ time = 6 - 7 credits per semester

$\frac{1}{2}$ time = 4 - 5 credits per semester

Academic Schedule

The academic year is divided into three semesters : Fall, Spring and Summer. Executive MBA Program is offered every semester. The duration for the semesters are : Summer – 11 weeks, Fall and Spring – 14 weeks. Fall semester starts in September, Spring starts in January, and Summer starts in May. Classes are conducted weekday evenings and on Fridays. Evening classes start from 7.00 PM. Friday classes start from 9.00 AM.

Admission Requirement

Students are admitted throughout the year. Admission to the EMBA program is selective. Admission forms are available in the Admission Office. All prospective students should submit completed application forms within the deadline for submission. To apply for admission, students must fulfil the following criteria :

- Successful completion of Bachelors degree from a reputed university.
- Must have at least 2nd division/class in all public exams/CGPA at least 2.50 in Bachelor degree.
- Must have at least 2 year work experience after graduation in an executive position.

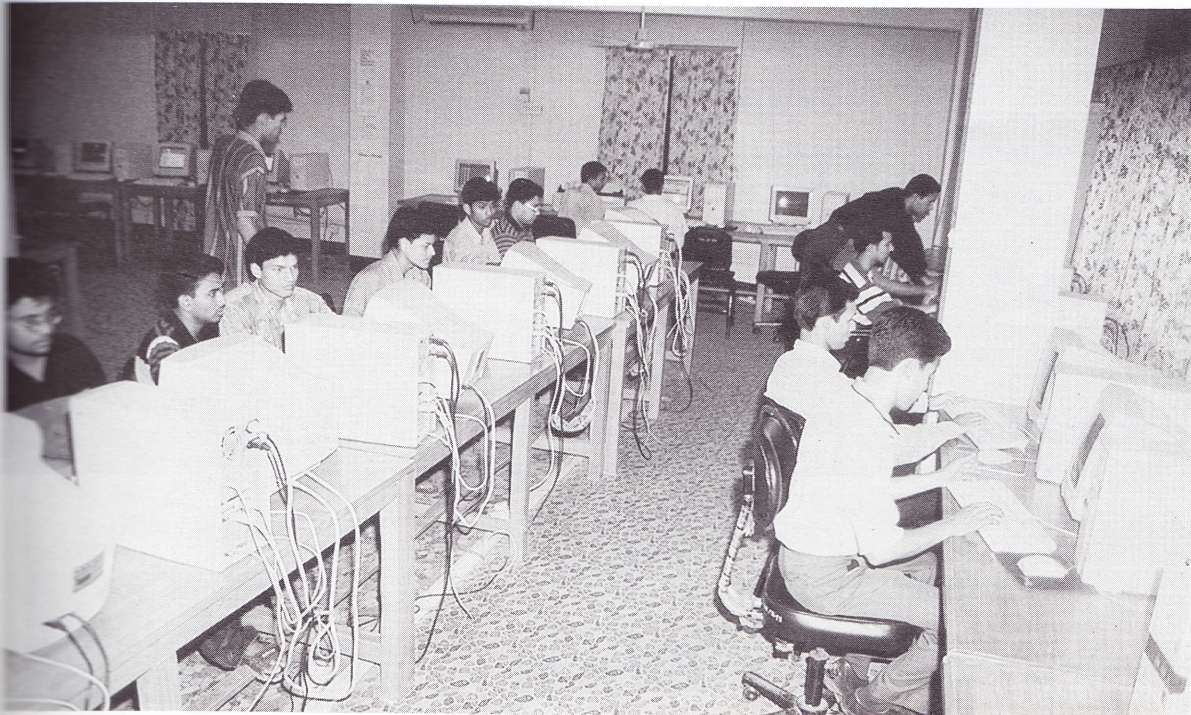
Application are evaluated on the basis of :

- Prior academic achievements
- Admission test scores
- Recommendation letters from employer/professors
- Interview before the admission committee

Admission test is waived for candidates who have 550 in TOEFL and 500 in GMAT.

Faculty

The faculty members teaching in the Executive MBA Program are among the best in the nation. All of them have Ph.D. from overseas universities. Courses will also be taught by highly qualified visiting professors from North America, Australia and UK.



STUDENT FACILITIES

Classes are held in clean and spacious air-conditioned rooms. There are two well-equipped computer laboratories exclusively for the use of students. The University tries to maintain a ratio of 10 computer science students to one computer. For the rest of the students the ratio is 15 students to a computer.

EWU is in the process of installing a Physics laboratory and a Digital laboratory. The Library contains more than 7 thousand volumes and subscribes to more than 30 current periodicals. Books are arranged on open shelves by Dewey Decimal classification using Anglo-American Cataloging Rules.

A doctor is present on campus and students are encouraged to consult him/her when necessary.

Besides, there is a card-phone booth, a prayer room, a cafeteria, a study room, and a separate games room with coloured TV for male and female students.

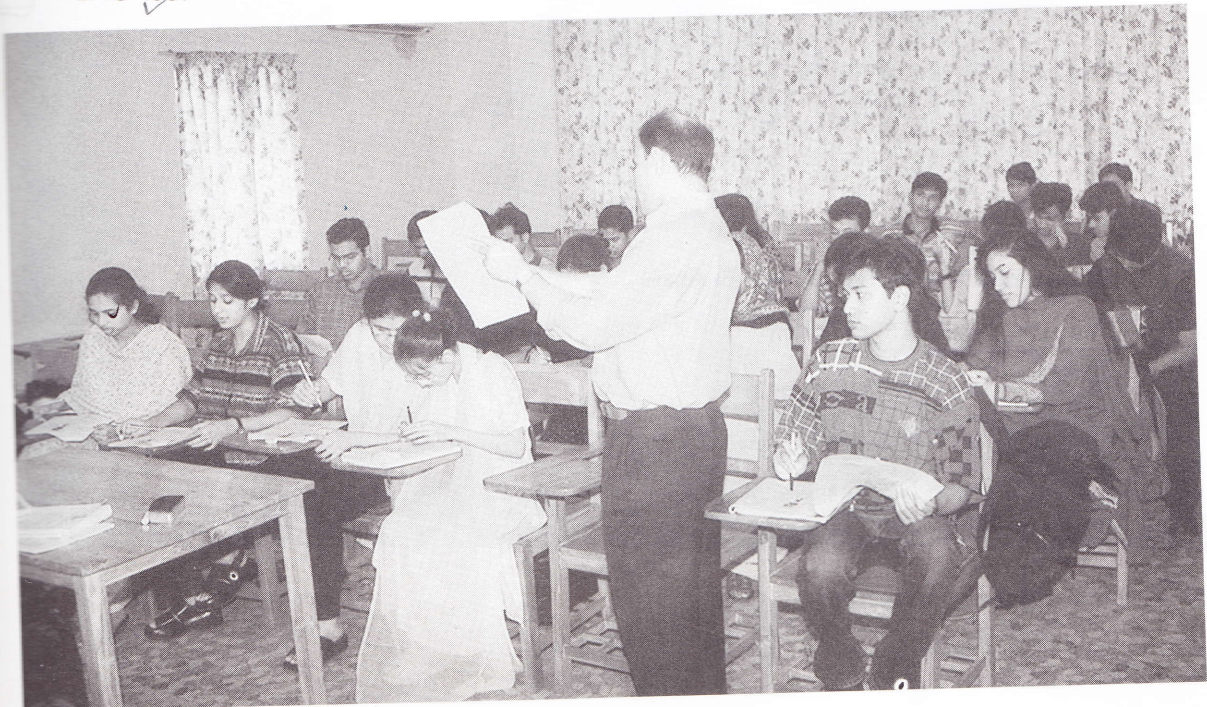


REQUIREMENTS FOR THE BACHELOR DEGREE

Requirements for the Degree of Bachelor of Arts (BA) in English

Total Requirements – 120 credits

1. **General Requirements** **30 Credits**
Compulsory General Education Courses **15 Credits**
BUS 101, CSC 101, ENG 101, ENG 102, GEN 201
Optional General Education Courses **15 Credits**
Choose Five Courses from
CSC 102, GEN 202, GEN 203, GEN 204, GEN 205, GEN 206, GEN 207
2. **Core Requirements** **60 Credits**
ENG 145, ENG 151, ENG 152, ENG 153, ENG 154, ENG 195, ENG 205,
ENG 207, ENG 208, ENG 215, ENG 220, ENG 301, ENG 305, ENG 306,
ENG 310, ENG 320, ENG 325, ENG 420, ENG 425, ENG 440.
3. **Elective Courses** **30 Credits**
Choose Ten Courses from
ENG 155, ENG 209, ENG 308, ENG 309, ENG 315, ENG 330, ENG 405,
ENG 406, ENG 407, ENG 408, ENG 409, ENG 410, ENG 411, ENG 430,
ENG 435.



Requirements for the Degree of Bachelor of Business Administration (BBA)

Total Requirements – 120 credits

Eng 100

1. General Requirements 30 Credits

Compulsory General Education Courses 21 Credits

BUS 101, CSC 101, ENG 101, ENG 102, GEN 201, MAT 110, STA 101.

Optional General Education Courses

Choose Three Courses from

CSC 102, GEN 202, GEN 203, GEN 204, GEN 205, GEN 206, GEN 207.

9 Credits

2. Core Requirements 60 Credits

ACT 101, ACT 201, BUS 231, BUS 361, ECO 101, ECO 102, FIN 101,
FIN 201, ITB 301, MAT 311, MGT 101, MGT 251, MGT 337, MGT 465,
MGT 480, MIS 101, MIS 402, MKT 101, MKT 201, STA 327.

3. Concentration Courses 18 Credits

Students may be allowed to do concentration in two areas.

(a) Concentration in Accounting

ACT 311, ACT 411, ACT 421, ACT 441 and

Choose two courses from

ACT 427, ACT 430, ACT 456, ACT 478

(b) Concentration in Finance

FIN 425, FIN 435, FIN 465 and

Choose three courses from

FIN 335, FIN 350, FIN 380, FIN 408, FIN 410, FIN 456, FIN 475.

(c) Concentration in International Business

ITB 401, ITB 428, ITB 465 and

Choose three courses from

ITB 445, ITB 450, ITB 455, ITB 460.

(d) Concentration in Management

MGT 402, MGT 409, MGT 421 and

Choose three courses from

MGT 405, MGT 410, MGT 425, MGT 437, MGT 448

Concentration in Management Information System

MIS 401, MIS 404, MIS 406 and

Choose three courses from

MIS 403, MIS 405, MIS 407, MIS 408, MIS 409

Concentration in Marketing

MKT 410, MKT 414, MKT 430 and

Choose three courses from

MKT 401, MKT 405, MKT 408, MKT 412, MKT 415, MKT 418, MKT 427

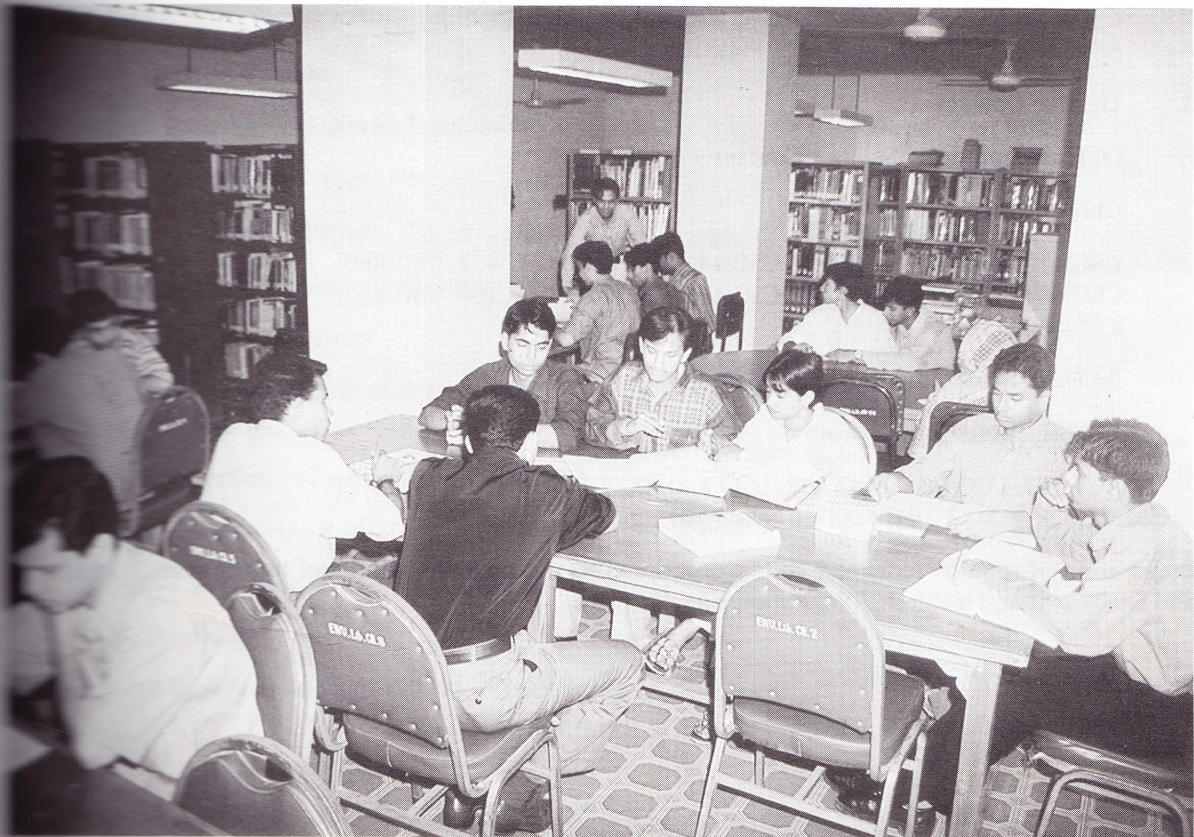
4. Internship or BUS 498

3 Credits

5. Open Electives

9 Credits

Choose three courses from 300 or 400 Levels.



Requirements for the Bachelor of Science (B.Sc.) Degree in Computer Science

Total Requirements – 129 credits

1. General Requirements 30 Credits

✓ Compulsory General Education Courses 21 Credits

BUS 101, CSC 101, ENG 101, ENG 102, GEN 201, MAT 100, STA 101.

Optional General Education Courses 9 Credits

Choose Three Courses from

CSC 102, GEN 202, GEN 203, GEN 204, GEN 205, GEN 206, GEN 207. Gen 209 //

2. Core Requirements 81 Credits

CSC 105, CSC 107, CSC 201, CSC 205, CSC 207, CSC 225, CSC 245,
CSC 275, CSC 285, CSC 301, CSC 305, CSC 315, CSC 335, CSC 360,
CSC 405, CSC 410, CSC 420, CSC 430, CSC 450, CSC 499, MAT 101,
MAT 102, MAT 201, PHY 101, PHY 102. 9

3. Elective Courses 18 Credits

(a) From Computer Science Courses 9 Credits 2 (3)

Choose 2 Courses from

CSC 412, CSC 415, CSC 440, CSC 442, CSC 444, CSC 452, CSC 460,
CSC 464, CSC 470, CSC 474, CSC 476, CSC 478, CSC 480, CSC 482,
CSC 484

(b) From Non Computer Science Courses 9 Credits 3 (3)

Choose Three Courses from

ACT 101, ECO 101, ECO 102, ECO 460, ECO 465, FIN 101, MGT 101,
MGT 337, MKT 101, MKT 201, MIS 101.

Preparation of requirements and course descriptions for Communication and Information Technology, and Environment, Health and Polulation is in progress.

Requirements for the Degree of Bachelor of Social Science (BSS) in Economics

Total Requirements – 120 credits

- | | |
|---|-------------------|
| 1. General Requirements | 30 Credits |
| Compulsory General Education Courses | 21 Credits |
| BUS 101, CSC 101, ENG 101, ENG 102, GEN 201, MAT 110, STA 101. | |
| Optional General Education Courses | 9 Credits |
| Choose Three Courses from | |
| CSC 102, GEN 202, GEN 203, GEN 204, GEN 205, GEN 206, GEN 207. | |
| 2. Core Requirements | 60 Credits |
| ECO 101, ECO 102, ECO 200, ECO 214, ECO 260, ECO 301, ECO 302,
ECO 310, ECO 328, ECO 349, ECO 360, ECO 450, ECO 460, ECO 465,
ECO 475, ECO 480, ECO 490, MAT 201, MAT 311, STA 327. | |
| 3. Concentration Courses | 15 Credits |
| (a) Concentration in Business Economics | |
| Choose Five Courses from | |
| ACT 101, FIN 425, FIN 465, ITB 301, MGT 101, MGT 337, MKT 101, MKT 408. | |
| (b) Concentration in Advanced Economic Theory | |
| Choose Five Courses from | |
| ECO 447, ECO 449, ECO 467, ECO 474, ECO 477, ECO 487, MAT 407,
MAT 470, STA 427. | |
| (c) Concentration in Trade and Development | |
| Choose Five Courses from | |
| ECO 329, ECO 353, ECO 406, ECO 414, ECO 433, ECO 443, FIN 465. | |
| 3. Open Electives | 15 Credits |
| Choose Five Courses from 300 or 400 Levels. | |

COURSE DESCRIPTIONS

Business Administration Course Descriptions

ACT 101 Financial Accounting-I:

Basic concepts, principles and techniques used in the generation of Accounting data for financial statement preparation. Asset, liability, equity, valuable and Income determination are stressed.

Credits : 3. Prerequisite : BUS 101.

ACT 201 Management Accounting-II:

Introduction to management accounting fundamentals of cost volume analysis and product costing, management reporting and information and decision making, introduction to budgets and standards for planning, control and performance measurement.

Credits : 3. Prerequisite : ACT 101.

ACT 311 Taxation:

Examines tax entitles, concept of Income, deductions of credits, recognition and non-recognition of gains and losses from disposition of property, distributions form and liquidation of the business entity, administration provisions of the tax law, and tax planning.

Credits : 3. Prerequisite : ACT 101.

ACT 411 Intermediate Accounting-I:

Accounting concepts, principles and theory with an emphasis on the special problems that arise in applying these concepts for external reporting purposes, emphasis on the use of accounting information as a basis for decisions for management, stockholders, creditors, and other users of financial statements and accounting reports.

Credits : 3. Prerequisite : ACT 201.

ACT 421 Intermediate Accounting-II:

Examines accounting concepts, principles and theory with an emphasis on the special problems that arise in applying concepts of financial accounting for external reporting purposes.

Credits : 3. Prerequisite : ACT 411.

ACT 427 Auditing:

Surveys the auditing converting issues common to external and internal auditing. Topics included: auditing theory, evidential matter, principles of internal control, sampling, testing and the application of computerized techniques.

Credits : 3. Prerequisite : ACT 421.

ACT 430 Accounting Information System:

Examines the fundamental of accounting systems design, including system analysis and design techniques, surveys hardware and software considerations, analyzes accounting applications with fundamental areas of the firm and studies the control of computerized systems in a business environment.

Credits : 3. Prerequisite : ACT 421.

ACT 441 Cost Accounting:

Use of cost for control and decision making with emphasis on standard costs, relevant costs, direct costing.

Credits : 3. Prerequisite : ACT 201.

ACT 456 Accounting Theory:

A study of the FASB and AICPA publications, with emphasis on recent trend and developments in the agenda and pronouncements of the FASB and other bodies that shape accounting practice. Students conduct independent research on topical accounting and reporting issues.

Credits : 3. Prerequisite : ACT 421.

ACT 478 Advanced Accounting:

An examination of accounting for leases, post employment benefits, deferred income and tax allocation, partnerships and selected special topics including multinational issues, are covered.

Credits : 3. Prerequisite : ACT 421.

BLS 101 Introduction to Business:

Survey of business, general knowledge of the modern business world, the composition and functions of the business organization, as well as business as a social institution.

Credits : 3. Prerequisite : ENG 099 or equivalent.

BLS 231 Business Communication:

Study of communication as a tool of administration and management, practice in writing a wide variety of types and forms of communication, and inclusion of oral and visual with the written to provide and integrate approach.

Credits : 3. Prerequisite : ENG 102.

BLS 361 Legal Environment of Business:

An overview of the legal, social and ethical dimensions which influence business with particular attention to the role of law as a control factor of society in the business world.

Credits : 3. Prerequisite : MGT 101.

BLS 498 Project Report:

Credits : 3.

BLS 499 Internship:

Credits : 3.

FIN 101 Principle of Finance:

Study of issuance, distribution and purchase of financial claims including the topics of financial management, financial investments and financial markets.

Credits : 3. Prerequisite : ACT 101, STA 101, MAT 110.

FIN 201 Business Finance:

The principle problems of managing the financial operations of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions.

Credits : 3. Prerequisite : FIN 101.

FIN 335 Financial Institutions and Markets:

An understanding of money and capital markets and financial instruments traded in these market and the discussion of major financial institutions are the major focus of the course.

Credits : 3. Prerequisite : ECO 102, FIN 201.

FIN 350 Real Estate Finance:

Focuses on theory and practice in real estate, with social, legal and economic implications. Topics of this course are administration of real estate mortgages, source and uses of mortgage funds, permanent and secondary financing and an overview of lease financing.

Credits : 3. Prerequisite : FIN 201.

FIN 380 Management of Commercial Banks:

This course is designed to provide the students with tools and techniques to manage commercial banks. The content of the course included: performance evaluation of a bank, asset-liability management, management of various kinds of risks, such as interest rate risks, and also fund management and investment management.

Credits : 3. Prerequisite : FIN 201.

FIN 408 Financial Analysis and Control:

This course offers techniques for analyzing income statement and balance sheet of a firm. On the basis of the analysis, managers are to detect the deviation on difference of financial performance. It also focuses on the managerial applications of financial statement analysis of a firm and implements their results as a means of control.

Credits : 3. Prerequisite : FIN 425.

FIN 410 Risk Management & Insurance:

Examines the management of non-speculative risks in the business enterprise with emphasis on insurance as a tool. Topics included are concept of risk and insurance, risk analysis, treatment of risk control and financing, analysis of risk contracts in the areas of life, health, property and liability insurance.

Credits : 3. Prerequisite : FIN 425.

FIN 425 Investment Analysis and Management: ✓

Survey of the problems and procedure of investment analysis and management. Types of investment risks, analysis of investment problems regarding the corporation as well as individuals.

Credits : 3. Prerequisite : FIN 201.

FIN 435 Managerial Finance: ✓

Examines in details the investment, financing and dividend policies of a corporation and their inter-relatedness. Topics included discussion of a debt policy, debt about dividend puzzle, interaction between investment and financing decisions and market for corporate control.

Credits : 3. Prerequisite : FIN 425.

FIN 456 Portfolio Management:

Examinations of modern concepts relating to management of security portfolios. Topics included security analysis, Markowitz portfolio theory and portfolio construction.

Credits : 3. Prerequisite : FIN 425.

FIN/ITB 465 International Finance Management: ✓

Analyzing the form and tools of international financial transactions at an advanced level. Topics included are managing exchange rate, capital raising and investment decisions through international financial markets and other related issues.

Credits : 3. Prerequisite : FIN 201.

FIN 475 Option and Future:

Study of modern concepts and issues in financial options and futures markets. Emphasis on risk management in financial institutions and applications in corporate finance and fund management.

Credits : 3. Prerequisite : FIN 425.

ITB 301 International Business:

Analysis of the major business management functions of international business environment, organizational policies, and strategies of multinational companies, industrial relations and control policies.

Credits : 3. Prerequisite : MGT 101, MKT 101.

ITB 401 International Operations: ✓

Emphasis on the factors influencing marketing to and within foreign countries and the alternative methods of operations open to international firms.

Credits : 3. Prerequisite : ITB 301.

ITB 428 International Economics: ✓

This course provides students with an understanding of international payments, balance of payments and foreign exchange markets, alternative international monetary arrangements and adjustments. This course will examine trade theory and policy and trade problems in multinational companies or in specific countries.

Credits : 3. Prerequisite : ECO 102.

ITB 445 International Financial Institution:

Information is not available at this moment.

Credits : 3.

ITB 450 International Business Negotiations:

Information is not available at this moment.

Credits : 3.

ITB 455 Country Risk Analysis:

This course provides framework for identification and analysis of economic and political issues of a country to assess the risk factors of that particular country. Topics include demographic trends, social issues, cultural knowledge through case analysis that will help students to develop skills necessary to identify, assess and deal with issues of risks and uncertainty in various countries.

Credits : 3. Prerequisite : MKT 414.

ITB 460 International Competitiveness:

Information is not available at this moment.

Credits : 3.

ITB FIN 465 International Finance Management:

Analyzes the form and tools of international financial transactions at an advanced level. Topics included are managing exchange rate, capital raising and investment decisions through international financial markets and other related issues.

Credits : 3. Prerequisite : ITB 301, FIN 201.

MGT 101 Principles of Management:

Provides a general analysis of management, basics of planning, organizing, and controlling, motivation progress, leadership techniques, and interpersonal relations in business and non-business organizations.

Credits : 3. Prerequisite : BUS 101, ENG 101.

MGT 251 Organizational Behavior:

Understanding the behavior of employees in organizations, particular attention to motivation to the individuals to join and perform in organizations and to employee satisfaction with element strategies to modify employee motivation and satisfaction.

Credits : 3. Prerequisite : MGT 101

MGT 337 Production Operations Management:

Introduction to production management, consideration of major problems of the production area, and the use of quantitative methods for solving them.

Credits : 3. Prerequisite : MAT 110, STA 101.

MGT 402 Management Science:

Survey of the current literature in Management Science examines principles and practices of scientific management. Selected topics in this course include: MBO, quantitative methods, Markov decision problems, simulation and queuing theory.

Credits : 3. Prerequisite : STA 101, STA 327.

MGT 405 Organizational Development and Change:

Provides an understanding of basics or organizational development, organizational renewal and change, intervention process. The objective of this course is to provide students with an integrated and comprehensive view of the field of organizational development.

Credits : 3. Prerequisite : MGT 251.

MGT 409 Human Resources Management:

This course cover factors in organizational performances, motivation and performance, HR planning; job design and staffing development and appraisal, compensation and reward, employee projection and representation and the future of HRM.

Credits : 3. Prerequisite : MGT 251.

MGT 410 International Labor Management:

The history and development of labor relations, the structure of union organizations, and process of negotiations and contract administration. Topics include the study of labor management in development market economics, international bargaining, ethics and employee relations. This course is a balanced approach from international or management viewpoint and an analysis from a behavioral, institutional and economic perspective.

Credits : 3. Prerequisite : BUS 361.

MGT 421 Entrepreneurship Development:

This course starts with the evaluation of the available business opportunities. Then it discusses the marketing strategies, financing, controlling process the legal responsibilities. It concludes with some tips for the future applications and shows the students the need for a business plan.

Credits : 3. Prerequisite : MGT 101.

MGT 425 Total Quality Management:

Examines major issues of TQM principles and theories. Topics include Demings, Juran, Crosby's TQM principles, JIT, HRM, Leadership theories, Quality and operational research.

Credits : 3. Prerequisite : MGT 101.

MGT 437 Small Business Management:

Managing small firms is a multidisciplinary activity. Planning activity binds all other activities together. Besides planning the course covers topics, such as: setting up, business basics, finance, control and the growing business.

Credits : 3. Prerequisite : MGT 101.

MGT 448 Managing Globalization:

This course contains topics on organizational strategy : for global competitive advantage ; management dynamics : structuring, staffing, & sharing values ; and cases regarding global management. This course also covers cultural and behavioral aspects of globalization, functional aspects of globalization and socio-ethical issues relating global management.

Credits : 3. Prerequisite : ITB 301.

MGT 465 Leadership Management:

This program responds to the leadership development needs of government and non-government organizations. This program provides a means by which students may discover and refine abilities fundamental to effective leadership.

Credits : 3. Prerequisite : MGT 251.

MGT 480 Strategic Management:

Analysis of policy formulation and implementation from a company wide stand point. Emphasis on integration of knowledge and approaches across functional areas, both endogenous factors, which affect company policy and the role of the firm in the society.

Credits : 3. Prerequisite : All functional areas need to be completed.

MIS 101 Management Information System:

Introduction to the components of the management information system and their integration for managerial control and decision support. Major functional applications and impacts of information technology on individual and society.

Credits : 3. Prerequisite : CSC 101.

MIS 401 Structural Programming:

General computer programming techniques and methodologies applicable to any modern programming language. Modular design, evaluation of expression, basic data structure, recursion, pointers and good documentation practice.

Credits : 3. Prerequisite : CSC 101

MIS 402 System Analysis and Design:

Essential steps in developing a management information system, including P-3 preliminary planning, designing, feasibility analysis, implementation schedule, and post implementation review of the systems which familiarizes students with methodology and techniques.

Credits : 3. Prerequisite : MIS 101.

MIS 403 Database Analysis and Application Development:

Fundamental concepts of database, file organization, file structure, different types of data structure, entity relationship, data normalization, database design, concurrency control, data dictionary, data security, distributed and client/server database, SQL implementation, database development using 4GL tools e.g. Microsoft Access, Visual Basic etc.

Credits : 3. Prerequisite : MIS 401.

MIS 404 Networking and Operating System:

The logical and physical design and implementation of computer network. The framework of layered architecture, different protocols, cable types and connectors, network naming and security, wide area networks, network trouble shooting, file systems of Microsoft NT, installing, fault tolerance, WINNT resources, remote Access, performance monitor, file systems of UNIX, basic commands, editors, and shell scripts.

Credits : 3. Prerequisite : MIS 101.

MIS 405 Object Oriented Programming and Design:

Java and Internet, Java foundation, control flow, abstract classes and packages, exception handling, applets multithreading, network programming, graphics, distributed programming, web building and social issues, and future development.

Credits : 3. Prerequisite : MIS 401, MIS 404.

MIS 406 Relation Database Management System:

The logical and physical design of database using computerized tools. Topics include - query optimization, DDL, DML, DCL, keys, joins, triggers, standard SQL functions e.g. count, nvl, sum, order and group by, snapshots, clusters, table space, etc. A great deal of emphasis will be given to query writing using the PL/SQL; forms and reports will be created by using different front end tools.

Credits : 3. Prerequisite : MIS 403.

MIS 407 System Integration & Security and Internet:

Business and system specification, existing hardware and software platform, file system of different operating systems, integration features of different systems including hardware and software, security features of different hardware and software, history and current management of internet, engines, internet services, electronic business and business promotion, internet software development and security.

Credits : 3. Prerequisite : MIS 101.

MIS 408 Internetworking with TCP/IP and Implementing Exchange Server:

Introduction to TCP/IP, identifying machine with IP routing, IP address resolution, host name resolution, Net BIOS name resolution, DHCP, WING, internet working browsing, connectivity in heterogeneous environments, SNMP services, fine tuning and optimization, trouble shooting, and administration of exchange server.

Credits : 3. Prerequisite : MIS 404.

MIS 409 Client/Server Administration:

Domain model in the enterprise, server managing, users (local and global) management, resource management, server and client, internet services, internet work routing, system performance, network monitoring, and server and client trouble shooting.

Credits : 3. Prerequisite : MIS 404.

MKT 101 Principles of Marketing:

Emphasizes the concept of planning, organizing, controlling, and decision making as they are applied in the management of the marketing function.

Credits : 3. Prerequisite : BUS 101.

MKT 201 Marketing Management:

Management of the firm's marketing function within a dynamic operating environment. Includes study of such function as product development, promotion, channel selection, logistics, and market research.

Credits : 3. Prerequisite : MKT 101.

MKT 401 Sales Management:

Analysis of the management of the sales effort within the marketing system. Philosophies, concepts, and judgement criteria of the sales function in relationship to the total marketing program.

Credits : 3. Prerequisite : MKT 201.

MKT 405 Promotion Management:

The role of promotional activities in the firms marketing function. Topics included advertising, personal selling, sales promotion and publicity. The relationship of consumer behavior to the area of promotion.

Credits : 3. Prerequisite : MKT 401.

MKT 408 International Marketing:

Analysis of international operations. Emphasis on the factors influencing marketing to and within foreign countries and the alternative methods of operations open to international firms.

Credits : 3. Prerequisite : ITB 301.

MKT 410 Consumer Behavior:

Examines underlying psychological, sociological, and economic factors, which influence consumer behavior. Studies and impact of marketing activities on society, consumerism, and legislation affecting the market place.

Credits : 3. Prerequisite : MGT 251, MKT 201.

MKT 412 Service Marketing:

Characteristics of service industries and organizations, pre-sales and post-sales activities and marketing people in service marketing. The service marketing mix major store and non-store relating types. Managing services quality, productivity, relationships and service marketing etc.

Credits : 3. Prerequisite : MKT 201.

MKT 414 Marketing Research:

The basic procedures and theories appropriate to solving various types of marketing problems in the context of business organization and decision models.

Credits : 3. Prerequisite : STA 101, MKT 201.

MKT 415 Advertising Management:

Advertising from the viewpoint of business management. Develops an understanding of the role of advertising under various conditions. Problems of integrating advertising strategy into the firms total marketing program.

Credits : 3. Prerequisite : MKT 410.

MKT 418 Physical Distribution:

Integration of physical distribution activities of the firm into a system. Transportation and location as elements of the system. Inventories and service as constrains upon the system. Planning, operation and management of the system.

Credits : 3. Prerequisite : MKT 201.

MKT 427 Retail Management:

Designed to present the basic principles in decision areas such as location, layout, organization, personnel, merchandise control, sales promotion, etc. Retail merchandising through managerial perspective.

Credits : 3. Prerequisite : MKT 412.

MKT 430 Strategic Marketing:

The course discusses marketing strategy, defining and analyzing markets, marketing segmentation, analyzing competition, market targeting and positioning strategies, product portfolio strategy, implementation, and other relevant topics.

Credits : 3. Prerequisite : STA 101, MKT 201.

Computer Science Course Descriptions

CSC 101 Introduction to Computers I:

An introduction to the skills, concepts, and capabilities necessary to effectively use information technology, i.e., computers and communication. The skills include standard applications to email, word processing, and Web search. The concepts include digital representation of information and computer basics. Capabilities include managing complexity, debugging, and dealing unexpected consequences.

Credits : 3. Prerequisite : none.

CSC 102 Introduction to Computers II:

Fundamental of Information Systems, Operating Systems, Programming Languages, Database Systems, Computer Networks, Computer Graphics, HTML/DHTML, Web Design, E-Commerce, Multimedia and other recent development in computing fields.

Credits : 3. Prerequisite : CSC 101.

CSC 105 Structural Programming:

General computer programming techniques and methodologies applicable to any modern programming language. Modular design, evaluation of expression, basic data structures, recursion, pointers and good documentation practice.

Credits : 3. Prerequisite : CSC 101.

CSC 107 Object Oriented Programming:

Data abstraction and modularity supported through the object oriented programming principles such as classes, inheritance, polymorphism and encapsulation, virtual functions, information hiding.

Credits : 3. Prerequisite : CSC 105.

CSC 201 Introduction to Computer Science:

Data representation, linked-list, arrays, stacks, queues, tree, binary search, iterative and recursive algorithms, generic algorithms, introduction to software design and debugging, establishing correctness of program and program testing, interdisciplinary case studies, engineering applications.

Credits : 3. Prerequisite : CSC 107.

CSC 205 Discrete Mathematics:

Propositional logic, Boolean algebra of set, Product sets, Function and Equivalence relations, fields, Groups, ring, recursion and discrete probability. Counting Techniques : Permutations and Combinations, Principles of inclusions and exclusions : drawer principal. Introduction to generating functions and linear recurrence relations with combinational algorithms, graphs.

Credits : 3. Prerequisite : MAT 100.

CSC 207 Data Structures:

Data types, abstract data types and data structures. Efficiency of algorithms. Sequential and linked implementation of lists. Binary tree representations and traversals. Searching dictionaries, priority queues, hashing. Directed graphs, depth-first algorithms. Garbage collection. Dynamic storage allocation. Internal and external sorting.

Credits : 3. Prerequisite : CSC 107.

CSC 225 Numerical Methods:

Solution techniques for linear, simultaneous algebraic equations: iterative methods of solution of nonlinear equations, interpolation of curve fitting, numeric integration by interpolative and quadrature methods; numerical solution of ordinary differential equations including initial value eigenvalue problem and boundary value problem, matrices.

Credits : 3. Prerequisite : CSC 107.

CSC 245 Algorithms:

Design and analysis of algorithms and data structures. Efficient algorithms for manipulating graphs and strings. Fast Fourier Transformation. Models of computation, including Turing machines. Time and space complexity. NP-complete problems and undecidable problems, Techniques for design of efficient algorithms. Methods for showing lower bounds on computational complexity. Particular algorithms for sorting, searching, set manipulation, arithmetic, graph problems, pattern matching.

Credits : 3. Prerequisite : CSC 207.

CSC 275 Operating Systems:

Principles of operating systems. Process management, memory management, auxiliary storage management and resource allocation. Operating system design and construction techniques. Concurrent programming, operating system kernels, correctness, deadlock, protection, transaction processing, design methodologies, comparative structure of different kinds of operating systems and other topics.

Credits : 3. Prerequisite : CSC 207.

CSC 285 Principles of Assembly Language:

Differences and similarities in machine organization; central processors; fundamentals of machine language and addressing; assembly language programming, including macros; operating system interfaces.

Credits : 3. Prerequisite : CSC 107.

CSC 301 Database Systems:

Fundamental concepts, system organization and implementation of database systems. Relational, hierarchical and network data models; file organizations and data structures; query languages: query optimization; database design; concurrency control; security; issues involving distributed database systems.

Credits : 3. Prerequisite : CSC 107.

CSC 305 Software Engineering:

Fundamentals of software engineering using a group project as the basic vehicle. Topics covered include the software crisis, managing complexity, requirement specification, architectural and detailed design, testing and analysis, software process, and tools and environments.

Credits : 3. Prerequisite : CSC 275.

CSC 315 Automata Theory and Theory of Computations:

Computational models including finite automata, regular expressions, context-free grammars, pushdown automata, Turing machines, and techniques for analyzing them. Basic computability theory and undecidability. Fundamentals of computational complexity theory and NP-completeness.

Credits : 3. Prerequisite : CSC 245.

CSC 335 Digital System Design:

Introductory course in digital logic and its specification and simulation. Boolean algebra, combinational circuits including arithmetic circuits and regular structures, sequential circuits including finite-state-machines, use of programmable logic devices. Simulation and high-level specification techniques are emphasized.

Credits : 4. Prerequisite : PHY 102.

CSC 360 Computer Architecture:

Study of architectural concepts in computer systems, computer arithmetic and arithmetic logic unit design, memories, memory hierarchies and dynamic address translation, CPU characteristics, performance factors control unit design hardware and micro-program, micro-programming, interrupt mechanism, DMA.

Credits : 4. Prerequisite : CSC 335.

CSC 405 Computer Networks:

Computer network architectures, protocol layers. Transmission media, encoding systems, error detection, multiplexing, switching. Data link, multiple access channel protocols. Methods for network routing, congestion control, flow control. End-to-end transport services, protocols. Network security, privacy. Applications including electronic mail, virtual terminals, distributed operating systems.

Credits : 3. Prerequisite : CSC 245, CSC 450.

CSC 410 Artificial Intelligence:

Principles and programming techniques of artificial intelligence : LISP, symbol manipulation, knowledge representation, logical and probabilistic reasoning, learning, language understanding, vision, expert systems, and social issues.

Credits : 3. Prerequisite : CSC 107, CSC 207.

CSC 412 Programming with JAVA:

Java and Internet, Java foundation, Control flow, Abstract classes and packages, Exception Handling, Applets, Multithreading, Network programming, Graphics, Distributed programming, Web Building and Social issues, Future Developments.

Credits : 3. Prerequisite : CSC 285.

CSC 415 Software Development Project:

Define, design, implement and document large programming project in different languages preferably using object oriented design methodology and C++ programming language.

Credits : 3. Prerequisite : CSC 301, CSC 305.

CSC 420 Computer Graphics:

Introduction to computer image synthesis and interactive computer graphics applications. Topics include computer graphics hardware, colour image display, event-driven programming, line drawing, polygon scan conversion, texture mapping, image morphing, image compositing, curves and surfaces, hidden surface algorithms, local illumination models, ray tracing and photorealistic image synthesis.

Credits : 3. Prerequisite : CSC 245.

CSC 430 Compiler Design:

Principles and practice of building efficient implementations of modern programming languages. Lexical, syntactic and semantic analysis of programs. Intermediate program representations. Intro- and interprocedural analysis and optimization. Run-time system techniques. Related programming environment facilities such as source-level debuggers and profilers.

Credits : 3. Prerequisite : CSC 245.

CSC 442 Microprocessors and Interfacing:

Interfacing fundamentals, types of interfacing, bus interfacing, I/O interfacing, DMA interfacing, feedback control interfacing, port mapping, interface hardware requirements, interface software interface, real time interface, case studies : simple interface circuit design and control using PC.

Credits : 3. Prerequisite : CSC 360.

CSC 444 Fault Tolerant Computing:

Faults and their manifestation, issues, theory, and techniques of reliable systems design, testing, design for testability, self-checking and fail-safe circuits, coding techniques, system-level fault diagnosis, fault-tolerant communication, reliable software design, and evaluation criteria, Prerequisite : basic knowledge of digital systems design or permission of instructor.

Credits : 3. Prerequisite : CSC 360.

CSC 450 Data Communications:

Principles involved in data communication. Modulation techniques, Pulse Modulation, Pulse amplitude modulation, pulse width modulation, pulse position modulation, pulse code modulation, pulse position modulation, quantization, Delta modulation, TDM, FDM, OOK, FSK, PSK, QPSK; Representation of noises, probability of error for pulse system, concept of channel coding and capacity, asynchronous and Synchronous communications. Multiplexers, concentrators and buffers, communication medium, fiber optics.

Credits : 3. Prerequisite : CSC 245.

CSC 452 Distributed Systems and Algorithms:

Formal approaches to distributed computing problems. Topics vary, but typically include models of distributed computing, agreement problems, impossibility results, mutual exclusion protocols, concurrent reading while writing protocols, knowledge analysis of protocols, and distributed algorithms.

Credits : 3. Prerequisite : CSC 245, CSC 275.

CSC 460 Programming Language Principles:

A study of non-imperative programming paradigms such as functional, object-oriented, logic, and constraint programming. Programming language semantics and type theory.

Credits : 3. Prerequisite : CSC 301.

CSC 464 Database System II:

Introduction to the principles of database management systems. Topics include database system architecture, data models, theory of database design, query optimization, concurrency control, crash recovery, and storage strategies.

Credits : 3. Prerequisite : CSC 301.

CSC 470 Expert Systems:

Basic principles of Expert systems, medical diagnostics, financial design and manufacturing planning. This course covers the basics of rule languages and how the interface engine decides which rule to execute in each cycle.

Credits : 3. Prerequisite : CSC 410.

CSC 474 Pattern Recognition:

Introduction to pattern recognition, features, classifications, learning. Statistical and neural network methods, Application to speech recognition, computer visions. Learning algorithms, Syntactic and semantic approaches.

Credits : 3. Prerequisite : CSC 410.

CSC 476 Neural Networks:

Brief introduction to applied artificial neural networks and current attempts to implement them as physical dynamic systems. In this course two or three specific supervised learning paradigm will be introduced.

Credits : 3. Prerequisite : CSC 410.

CSC 478 Stochastic Processes:

Introduction to theory and application of stochastic process. Wiener, Poisson, normal processes, stationary and evolutionary processes. Markov Chains, ergodicity.

Credits : 3. Prerequisite : MAT 102.

CSC 480 Web Database Programming:

Design an Internet utilizing a range of different technologies, use advanced tools to simplify the creation and updating Web content, expanding intranet services by adding client-side and server-side processing, interfacing your internet to a database, Querying a database using Cold Fusion.

Credits : 3. Prerequisite : CSC 301.

CSC 482 Parallel Computation:

Survey of parallel computing including the processing modes of pipelining, data parallelism, thread parallelism, and task parallelism; algorithmic implications of memory models; shared memory and message passing; hardware implementations; bandwidth and latency; synchronization, consistency, inter-processor communication; programming issues including implicit and explicit parallelism, locality, portability.

Credits : 3. Prerequisite : CSC 245, CSC 315.

CSC 484 Computational Geometry:

Problems in computational geometry, worst case complexity of geometric algorithms; expected complexity of geometric algorithms and geometric probability, geometric intersection problems, nearest neighbor searching, point inclusion problems, distance between sets, polygon decomposition, the Voronoi diagram and other planner graph, updating and deleting from geometric structures.

Credits : 3. Prerequisite : CSC 410.

CSC 499 Computer Science Project:

Each student will be assigned a project under the supervision of a faculty member. Student must complete the project within two consecutive semesters.

Credits : 6.

English Course Descriptions

ENG 099 Remedial English:

This is a Remedial English Program intended for students facing difficulties to cope with English as a medium of instruction. The course incorporates components of the basic language skills: Listening, Speaking, Reading and Writing.

Credits : none, Prerequisite : none.

ENG 101 Basic English:

The course includes some important areas of Grammar, Writing and Comprehension mechanism. The course incorporates components of Basic Sentence Pattern, The Tenses, Prepositions, Gerund-Infinitives and Modals. It aims at preparing students for writing descriptive, narrative, argumentative, reflective or expository paragraphs. It also prepares students for negotiating a text for comprehension purposes.

Credits : 3. Prerequisite : ENG 099.

ENG 102 Composition and Communication Skill:

The course stresses on developing Writing Skill. The components of the course are report writing, letters-formal and informal, Precis, word formation rules and the technique of writing a Term Paper.

Credits : 3. Prerequisite : ENG 101.

ENG 145 Introduction to Linguistics:

The aim of this course is to familiarize students with some basic concepts of Linguistics.

Credits : 3. Prerequisite : none.

ENG 151 Advanced Grammar I:

The course aims at pointing out differences between the concepts of Traditional Grammar and Modern Grammar. It incorporates Morphology, problems in defining a word and its class, semantic aspects of modalities and meaning of grammatical categories.

Credits : 3. Prerequisite : none.

ENG 152 Advanced Grammar II:

This course aims at familiarizing students with the syntactic patterns of Modern Grammar. It includes syntactic functions of subordinate clauses, coordination and systems of Syntactic Analysis.

Credits : 3. Prerequisite : ENG 151.

ENG 153 General Phonetics and Phonology:

The aim of this course is to familiarize student with Articulatory Phonetics. It incorporates air stream mechanisms, segments of speech and different theories of Phonology.

Credits : 3. Prerequisite : none.

ENG 154 English Phonetics and Phonology:

The aim of this course is to prepare students to speak English with acceptable pronunciation and intonation. It includes Phonemic Transcription, Stress patterns and different functions of intonation.

Credits : 3. Prerequisite : none.

ENG 155 Improving Writing Skill:

This course aims at servicing some writing skills introduced earlier. It includes different kinds of compositions at a higher level which should measure students' abilities in critical appreciation.

Credits : 3. Prerequisite : ENG102.

ENG 195 Rhetoric and Prosody:

This course introduces students with the technicalities of literature. It includes figures of speech, rhyme, rhythm, and metrical patterns of literature in general and poetry in particular.

Credits : 3. Prerequisite : none.

ENG 205 History of the English Language:

The purpose of this course is to introduce the English Language in its historical context and perspective. It includes salient features of Old, Middle and Modern English. It also incorporates a comparison between British and American English.

Credits : 3. Prerequisite : none.

ENG 207 Psycholinguistics:

This course emphasizes on the psychological aspects of language learning. It incorporates Child Language Acquisition, Sound System, Phonology, Syntax, Semantics, Interlanguage Theory, Universal Grammar Theory and Cognitive Theory.

Credits : 3. Prerequisite : ENG 145.

ENG 208 Sociolinguistics:

The aim of this course is to familiarize students with various aspects of Sociolinguistics. The course includes language varieties and standardization, regional and social dialects, geographical distribution and characteristics of pidgins and creoles, diglossia, bilingualism, code switching/mixing and sociocultural aspects of multi-lingualism.

Credits : 3. Prerequisite : ENG 145.

ENG 209 History of Linguistics:

The aim of this course is to familiarize students with the development of Linguistics as a discipline. The course covers the development of the study of Linguistics from Panini to Fillmore with special reference to Indo-European Family of Languages.

Credits : 3. Prerequisite : none.

ENG 215 Chaucer to Romantics:

The aim of this course is to introduce some major English poets to students. The course includes selected works of Geoffrey Chaucer, Alexander Pope, John Donne, Andrew Marvell, William Blake, William Wordsworth, S.T. Coleridge and John Keats.

Credits : 3. Prerequisite : none.

ENG 220 Victorian and Modern Poetry:

The course aims at familiarizing students with some major Victorian and Modern poets. It includes selected works of Alfred Tennyson, Robert Browning, Matthew Arnold, W.B. Yeats, T.S. Eliot, Auden and Ted Hughes.

Credits : 3. Prerequisite : none.

ENG 301 Drama I: Elizabethan and Restoration Drama:

The course is meant for familiarizing students with a selection of Elizabethan and Restoration Drama. It includes works of Christopher Marlowe, William Shakespeare, Ben Jonson and William Congreve

Credits : 3. Prerequisite : none.

ENG 305 Linguistic Theories:

The course is meant for introducing historical developments of Linguistics as a discipline. The course incorporates Theories of Saussure, the Descriptivists, the Sapir Whorf hypothesis, Functional linguistics of Prague school, Noam Chomsky and Generative Grammar and London School.

Credits : 3. Prerequisite : ENG 145 or ENG 152.

ENG 306 Methodology in Language Teaching:

The aim of this course is to prepare students with theoretical and practical aspects of language teaching. The course emphasizes on methodology in language teaching. It critically examines Audiolingual Method, Communicative Method, The Natural Approach and the Total Physical Approach.

Credits : 3. Prerequisite : ENG 145.

ENG 308 Developing Writing Skills:

The aim of this course is to prepare students for research-oriented write-ups. The course includes Book Review, Research Paper and Critical Analysis.

Credits : 3. Prerequisite : ENG155.

ENG 309 Advanced Writing Skill:

Students will be required to study selected literary pieces in order to develop an awareness of the linguistic devices as an author employs and the effects they produce. Students will explore different rhetorical modes including narration, description, process, comparison/contrast, classification, cause and effect. Students will focus on word choice, sentence variety and paragraph structure.

Credits : 3. Prerequisite : ENG 308.

ENG 310 William Shakespeare:

The aim of this course is to familiarize students with a selection of William Shakespeare's works. It includes Othello, King Lear, Measure for Measure, As You Like It, Richard II and the Sonnets.

Credits : 3. Prerequisite : none.

ENG 315 Modern Drama:

The course aims at introducing a selection of modern drama to students. It includes selected works of J.B. Shaw, J.M. Synge, Samuel Beckett, George Osborne and Harold Pinter.

Credits : 3. Prerequisite : ENG 225.

ENG 320 Classics in Translation:

The objective of the course is to make students acquainted with some major classics of world literature. It includes selected works (in translation) of Homer, Sophocles, Euripides, Aeschylus and Aristophanes.

Credits : 3. Prerequisite : none.

ENG 325 English Fiction:

The course aims at introducing English Fiction to students. It includes selected works of Daniel Defoe, Jonathan Swift, Jane Austen, D H Lawrence, Joseph Conrad and James Joyce.

Credits : 3. Prerequisite : none.

ENG 330 English Non-Fictional Prose:

The course studies the development of prose writing from the Elizabethan period upto the modern time. It includes selected writings of Francis Bacon, Addison, Steele, Boswell, Lamb, Mill and Orwell.

Credits : 3. Prerequisite : none.

ENG 405 English For Professionals:

The aim of this course is to prepare students to negotiate language for a specific profession. It identifies various areas of English for Special Purposes in order to identify structural and vocabulary needs. It draws a line between EAP (English for Academic Purposes) and EOP (English for Occupational Purposes).

Credits : 3. Prerequisite : ENG 306.

ENG 406 Advanced Language Skills:

The course aims at improving the Basic Skills of Learners by exposing them to a variety of language situations. It is designed to service Listening, Speaking, Reading and Writing at an advanced level.

Credits : 3. Prerequisite : ENG 308.

ENG 407 Teaching English as a Second Language:

The aim of this course is to prepare students as future ESL teachers. It includes designing Syllabus and Curriculum, Language Testing and Error Analysis.

Credits : 3. Prerequisite : ENG 306.

ENG 408 Practice Teaching:

The purpose of this course is to prepare students as effective ESL teachers. Students will be required to operate in actual class room situations. The course incorporates different teaching methods and their pedagogical implications. Marks will be distributed between theoretical aspects of teaching and class room performance.

Credits : 3. Prerequisite : ENG 145 or ENG 306.

ENG 409 Language Use in Communication:

The purpose of this course is to prepare students in making effective use of language in a variety of communicational situation. It includes Note-taking, Minutes, Memorandum and Letters.

Credits : 3. Prerequisite : none.

ENG 410 Continental Literature:

The course aims at familiarizing students with some major writers of Continental Literature. It includes works of Flaubert, Tolstoy, Brecht, Pirandello, Baudelaire and Rilke.

Credits : 3. Prerequisite : none.

ENG 411 Universal Grammar:

The objective of the course is to acquaint students with features of grammar which are common to all languages. The course includes Government Binding Theory, X-Bar Theory and X-Bar Syntax, Projection Principle, S-Selection and O-Theory, Case Theory etc.

Credits : 3. Prerequisite : ENG 152.

ENG 420 American Literature:

The aim of this course is to familiarize students with a selection of American literature. This includes selected works of Whitman, Dickinson, Melville, Hemingway, Bellow, Morrison, O'Neil and Miller.

Credits : 3. Prerequisite : none.

ENG 425 Classics and Epics in English:

The aim of this course is to introduce some English Classics to learners. It incorporates Beowulf, John Milton's Paradise Lost and T.S. Eliot's The Waste Land.

Credits : 3. Prerequisite : none.

ENG 430 Cultural Studies:

The aim of this course is to introduce students with a genre of literature addressing cultural aspects in particular. The course includes selected writings of Arnold, Foucault, Raymond William, Barthes, Cornel West, E. Said Catherine B Hooks.

Credits : 3. Prerequisite : none.

ENG 435 Post Colonial Theory and Literature:

The aim of this course is to familiarize students with some post colonial theories and their manifestation in some authors' writings. It includes selected works of Spivak, Bill Ashcroft, Fanon, Jean Rhys, V S Naipaul, Achibe, Soyinka, J Corad, Shakespeare, Radhakrisnan and Parthasarathy.

Credits : 3. Prerequisite : none.

ENG 440 Literary Theory:

The aim of this course is to familiarize students with different literary theories. The course includes selected works of Freud, Cleanth Brooks, E M Forster, M. H. Abrams, R. Barthes, William Wordsworth, Fich, Said, Kora Kaplan and T S Eliot.

Credits : 3. Prerequisite : none.

Economics Course Descriptions

ECO 101 Introduction to Microeconomics:

An introduction to the methods and principles of microeconomics. Topics include theory of consumer behavior, cost of production, market and market structure, market failure.

Credits : 3. Prerequisite : MAT 099, ENG 099 or equivalent.

ECO 102 Introduction to Macroeconomics:

This course introduces the principles of macroeconomic analysis. Topics include national income accounting; issues relating to unemployment, inflation, determination of output, price level, an introductory account of monetary and fiscal policies, budget and trade deficits.

Credits : 3. Prerequisite : none.

ECO 200 Agricultural Economics:

Introduction of agriculture as an industry; economics of agricultural production, farm management, land economics, rural organization, agricultural credit and finance, agricultural law, agricultural marketing, agrarian reform, agricultural policy, agricultural prices, structure and scope of Bangladesh agricultural sector.

Credits : 3. Prerequisite : ECO 101.

ECO 214 Public Sector Economics:

The course examines a number of issues in public expenditure theory and taxation. Topics on the expenditure side include the economic rationale for government, provision of public goods, corrective policies to externalities, and cost-benefit analysis. On the taxation side, topics include the question of tax incidence, efficiency effects of taxes and optimal taxation.

Credits : 3. Prerequisite : ECO 101.

ECO 260 Environmental & Natural Resource Management:

This course aims at exploring and examining human relationship with environment with special emphasis on Bangladesh. The course surveys the economic, cultural, social, and political aspects of human population dynamics, food resources and hunger, mineral and energy resources, air, land and water pollution, wilderness and wildlife resources, urban and rural land usage, and toxic waste management from environmental and conservation viewpoints. The course makes recommendations and probes possible solutions to contemporary resource and environmental problems of Bangladesh. Current issues important to the environment are stressed in class projects.

Credits : 3. Prerequisite : ECO 101.

ECO 301 Intermediate Microeconomic Theory:

Theory of choice and its application to consumer and producer behavior, theory of production and cost, output and input markets and their structure, equilibrium and efficiency, introduction to general equilibrium analysis.

Credits : 3. Prerequisite : ECO 101.

ECO 302 Intermediate Macroeconomic Theory:

This course introduces the mainstream models in modern macroeconomics—classical models, Keynesian model of consumption and investment analysis; IS-LM models of closed and open economics dealing with unemployment, inflation and interest rates. Analysis of monetary and fiscal policies.

Credits : 3. Prerequisite : ECO 102.

ECO 310 Money and Banking:

Understanding money, macroeconomic role of money, the role of the banking system in the functioning of the monetary system. Principles of managing commercial banks, efficient loan portfolio management, the history and functions of the central banks.

Credits : 3. Prerequisite : ECO 102.

ECO 304 Economics of Health:

Application of economic concepts and analytical tools to the health service system. Review of empirical studies of demand and supply of health services, behavior of providers in selected developing and developed countries, and relationship of health services to population health levels. Discussion of policy issues relating to financing and resource allocation to the health sector.

Credits : 3. Prerequisite : ECO 101.

ECO 328 International Trade and Finance:

Review and analysis of international trade models, theories and tools of analysis—classical, neo-classical and alternative theories; international monetary system, its role, importance, structure and future performance; foreign exchange market, balance of payments adjustments.

Credits : 3. Prerequisite : ECO 301 and ECO 302.

ECO 329 Contemporary Issues in International Economics:

In depth analysis of selected current issues and policy problems of the international economy including (but not restricted to) the following: new approaches to the theory of international trade, reform of the international monetary systems, role of the General Agreement on Tariffs and Trade and the United Nations Conference on Trade and Development. Problems of stabilization of international commodity markets, and balance of payments problems of Bangladesh and other selected countries.

Credits : 3. Prerequisite : ECO 328 or equivalent.

ECO 349 Economics of Development:

The nature of underdevelopment, growth theories, dualism, center periphery models, process of cumulative causation, population and development, development and environment, foreign assistance, debt and development, trade and development.

Credits : 3. Prerequisite : ECO 101 and ECO 102.

ECO 353 Economics of Development in South Asia:

Background and analysis of plans and progress toward economic development in South Asia, their trends in development, economic characteristics of the area and their significance for economic development.

Credits : 3. Prerequisite : ECO 101 and ECO 102.

ECO 357 Mathematical Economics:

Economic models and equilibrium analysis, linear models and matrix algebra, differentiation and comparative statics, comparative statics of general function models, optimization and equilibrium, exponential and logarithmic functions, multi variable optimization, optimization with equality constraints, economic dynamics and integral calculus.

Credits : 3. Prerequisite : MAT 110.

ECO 360 Socio-Economic Profiles of Bangladesh:

It surveys the socio-economic features and studies of the macroeconomic performance of the economy of Bangladesh within the context of the socio-political reality; sectoral development and analysis of the sectors in a general equilibrium framework; foreign trade and foreign aid; financial institutions and monetary management, fiscal policy, human resource development and the long term performance of Bangladesh economy.

Credits : 3. Prerequisite : ECO 101 and ECO 102.

ECO 406 International Trade Theory:

This course offers advanced treatment of trade models covered in ECO 328 as well as incorporates new developments in international trade theory. Topics include neo-classical trade theory, industrial-organization based trade models, protection theory, regional integration and economic growth.

Credits : 3. Prerequisite : ECO 328 or equivalent.

ECO 414 Trade Policy Analysis:

Applies the theory of international economics to the problems of policy design for export promotion, import substitution, exchange rate choice and management, foreign indebtedness, capital flow and balance of payments management.

Credits : 3. Prerequisite : ECO 328.

ECO 433 Gender & Development:

This course examines gender discrimination & gender equality as it relates to economic development. Topics include success and failures of NGO activities that directly address women's participation in development.

Credits : 3. Prerequisite : ECO 349.

ECO 443 Social Mobilization, Rural Banking and Community Organization:

This is aimed at analysing the role of grass root organizations and NGO's in development. Their achievements in activities like micro-credit, education and awareness building is discussed. Field trips are an integral part of this course.

Credits : 3. Prerequisite : ECO 349.

ECO 447 Applied Economics:

This course analyses some selected issues in regulation and government intervention and their impacts.

Credits : 3. Prerequisite : ECO 301.

ECO 449 Economics of Information:

Moral hazard, adverse selection in game theoretic models; Individual and social choices under incomplete and imperfect information.

Credits : 3. Prerequisite : ECO 467.

ECO 450 Labor Economics:

This course surveys a number of topics in labor economics, including the facts underlying the rising labor participation of women, the effects of legislation such as minimum wages and overtime regulation on wages and employment, the factors that determine wage rates paid to different individuals, and in particular the degree to which observed patterns of wages conform to the predictions of the simple competitive model versus other models of wage determination; the economics of education, discrimination in the labor market, and other selected topics.

Credits : 3. Prerequisite : ECO 301.

ECO 460 Managerial Economics:

Scope and nature of managerial optimization, optimization techniques, risk analysis, estimation techniques, demand theory, demand estimation, demand forecasting, production theory and estimation, linear programming, market structure and pricing practice, long run investment decisions, capital budgeting, cost benefit analysis, public sector management.

Credits : 3. Prerequisite : ECO 301.

ECO 465 Basic Econometrics:

Review of statistics, two-variable regression, functional form, multiple regression, multicollinearity, heteroscedasticity and autocorrelation, specification errors, dummy variables, lagged variables, identification and systems estimation.

Credits : 3. Prerequisite : STA 327.

ECO 467 Advanced Microeconomic Theory:

Advanced treatment of microeconomic concepts. Traditional concepts of theories about production and consumer choice will be discussed with mathematical rigor and special emphasis will be given to market structure, strategic behavior and game theory.

Credits : 3. Prerequisite : ECO 301 and ECO 357.

ECO 474 Mathematical Economics II:

Dynamic analysis and its application in economic models : Harrod model, Domar model, Samuelson's multiplier accelerator interaction model. Dynamic Optimization: nature of dynamic optimization. Calculus of variation : Fundamental problem of the calculus of variations-Euler Equation, some special cases, applications, second order conditions, infinite planning horizon, constrained optimization problems, optimal control theory : The maximum principle, infinite horizon problem, optimal control with constraints

Credits : 3. Prerequisite : MAT 311, ECO 301 and ECO 302.

ECO 475 History of Economic Thought:

Birth of political economy, laissez faire revolution and Smithian economics, Ricardo to Mill, socialist thought and Marx, neoclassical synthesis ; theory of general equilibrium, welfare economics, Keynesian revolution, monetarist counter revolution, theories of justice.

Credits : 3. Prerequisite : ECO 101 or ECO 102.

ECO 477 Advanced Macroeconomic Theory:

A review of macroeconomic issues, policies and tools. Different schools of macroeconomic thought, long run economic growth, neoclassical and new growth theories. Short run economic fluctuation, modern theories of business cycle, inflation and unemployment. Sectoral analysis, consumption and investment, open economy macroeconomics, macroeconomic issues and problems in a developing country like Bangladesh.

Credits : 3. Prerequisite : ECO 302, ECO 357.

ECO 480 Urban Economics:

Aspects of urban management, location and growth of cities ; system of cities & urban hierarchy, economics of urban management ; management of urban environment ; urban waste management. The structure of the urban government, its fiscal base and linkages with the external sectors : policy issues such as - determination and collection of local taxes, urban enterprise zones, urban land and housing policies, anti-poverty policies.

Credits : 3. Prerequisite : ECO 214.

ECO 487 Econometric Methods:

K-variable linear model, OLS Estimators, inference in the OLS model, estimator subject to linear restrictions, dummy variables, multicollinearity, specification error, GLS estimator, heteroskedasticity, autocorrelation maximum likelihood estimators.

Credits : 3. Prerequisite : STA 427, ECO 465.

ECO 490 Industrial Organization:

The course revolves around organizational issues such as the structure of markets, theories of ownership, incentives, contracts, coordination using prices, quantities and direction, moral hazard and its organizational consequences, risk sharing and incentive contracts, as well as other property right topics like compensation and motivation within the firm.

Credits : 3. Prerequisite : ECO 301.

General Education Course Descriptions

GEN 201 Bangladesh Studies:

The course will familiarise students with Bangladesh in terms of its geography, history, culture, politics, economy, government and politics.

Credits : 3. Prerequisite : ENG 101 & ENG 102.

GEN 202 Eastern Culture & Heritage:

The objective of this course is to introduce students to the culture and civilization of eastern part of the world. The specific objective is to make the students familiar with the major races, religious philosophy, cultural heritage and scholars of this region.

Credits : 3. Prerequisite : none.

GEN 203 Ecological System and Environment:

Topics include : global process and cycles, biological principles, ecological communities, community change and succession, conservation and preservation, pollution, green house effect, economics and environment, impact of population on ecosystem and environment, remote sensing.

Credits : 3. Prerequisite : none.

GEN 204 Western Thought:

The aim of this course is to introduce students with some masterpieces of Western literature. The course includes selections from William Shakespeare, Charles Dickens, Anton Chekhov, Guy de Maupassant, Robert Frost and T.S. Eliot.

Credits : 3. Prerequisite : none.

GEN 205 Introduction to Psychology:

The objective of this course is to provide knowledge about the basic concepts and principles of psychology pertaining to real-life problems. The course will familiarize students with the fundamental processes that occur within organism-biological basis of behaviour, perception, motivation, emotion, learning, memory and forgetting and also to the social perspective-social perception and social forces that act upon the individual.

Credits : 3. Prerequisite : ENG 099 or equivalent.

GEN 206 Introduction to Sociology:

The objective of this course is to introduce students to key societal concepts, primary social institutions, social structure and stratification, religion and so on. They will also be familiar with the methods and different techniques of social research.

Credits : 3. Prerequisite : none.

GEN 207 Industrial Psychology:

The objective of this course is to provide knowledge about human behavior in those aspects of life that are related to the production, distribution, and use of the goods and services of our civilization. This course will also help to the application of pertinent informations about human behavior to the solution of human problems in the industrial context.

Credits : 3. Prerequisite : ENG 099 or equivalent.

Additional General Education Courses may be introduced in the future.

Mathematics and Statistics Course Descriptions

MAT 099 Remedial Mathematics:

The objective of this course is to strengthen the mathematical foundation of the freshers at East West University. Topics include : Unit and metric system, number system, linear equations and inequalities, exponent and radicals, polynomial and factorization, simplification of expressions, simple and compound interest, profit and loss, rates and ratios, significant digits and approximations, areas and volumes, co-ordinate systems, graphs and diagrams.

Credits : none. Prerequisite : none.

MAT 100 College Mathematics:

Set, real number system, algebraic expressions, systems of equations, functions and relations, matrices, determinant (applications), exponent and radicals, exponential and logarithmic functions, functions of integers, permutation, combination, binomial theorem.

Credits : 3. Prerequisite : none.

MAT 101 Calculus and Analytical Geometry I:

Basic techniques of differentiation and integration with applications including curve sketching ; anti-differentiation, the Riemann integral, fundamental theorem, exponential and circular functions.

Credits : 3. Prerequisite : MAT 100.

MAT 102 Calculus and Analytical Geometry II:

Second course in calculus and analytical geometry discusses techniques of integration, conic sections, polar coordinates and infinite series.

Credits : 3. Prerequisite : MAT 101.

MAT 110 Mathematics for Business and Economics I:

Set, liner equations and inequalities in one variable, quadratic equations, Cartesian coordinate system and straight lines, functions, linear and quadratic functions, exponential and logarithmic functions, system of liner equations, matrices, permutation and combination, binomial theorem, arithmetic and geometric progressions.

Credits : 3. Prerequisite : MAT 099 or equivalent.

MAT 201 Linear Algebra:

Basic concepts and techniques of linear algebra, includes system of linear equations, Quadratic forms, latent root and Latent vectors, vectors in space, Eigen vectors together with selected applications in Markov processes, linear programming, economic models, least squares and population growth.

Credits : 3. Prerequisite : MAT 100.

MAT 311 Mathematics for Business and Economics II:

Economic and business models, functions, limits and continuity, concept of derivative, rules of differentiation and integration, and their use. Constrained optimization with lagrangian multiplier, partial derivatives. Theory is presented informally and technicques are related to polynomials. Logarithmic and exponential functions.

Credits : 3. Prerequisite : MAT 110, ECO 101.

MAT 407 Advanced Calculus:

Vector differential equations, constant coefficient equations, first-order systems, linear systems.

Credits : 3. Prerequisite : MAT 311.

MAT 470 Real Analysis:

Real and complex number system, basic topology, numerical sequence and series, continuity, differentiation, Riemann-Stieltjes integral, sequence and series of functions.

Credits : 3. Prerequisite : MAT 407.

STA 101 Introduction to Statistics:

Definition and scope of statistics, Variables, Levels of measurements, Qualitative and quantitative data, Population and Sample. Construction of table, Frequency distributions. Measures of central tendency, measures of Dispersion, Basic concepts of Probability, Probability laws, Independence, Combinational Probability and Mathematical Expectation, Basic concepts of discrete and continuous probability distributions: Binomial, Hypergeometric, Poisson and Normal distributions. Simple correlation and regression.

Credits : 3. Prerequisite : MAT 110 or MAT 100.

STA 327 Statistics for Business and Economics:

Introduction to modern theory and methodology of statistics in areas of economics and business. Topics include : sampling theory and methodology of sampling distributions and Hypothesis testing, contingency tables, multiple regression, analysis of variance, decision theory, index number and time series analysis.

Credits : 3. Prerequisite : STA 101 & MAT 311.

STA 427 Mathematical Statistics:

Probability distributions and probability densities, mathematical expectation, special probability, distributions, functions of random variables, sampling distribution, point estimation, interval estimation and hypothesis testing.

Credits : 3. Prerequisite : MAT 311, STA 327.

Physics Course Descriptions

PHY 101 Physics I:

Theory and application of engineering mechanics, waves and oscillations and a few topics of thermodynamics. The students will be exposed to some new techniques of solving problems related to numerous applications of physics in engineering, technology, medicine and everyday phenomenon.

Credits : 3. Prerequisite : MAT 100.

PHY 102 Physics II:

Basic understanding of electricity and magnetism, optics and modern physics. emphasis will be made on electrical circuits and electronics that has direct relevance to computer engineering and science. The laboratory part of this course is to expose students with the simulation of electrical circuits in computers followed by experimenting and testing a few basic electrical circuits in the laboratory.

Credits : 4. Prerequisite : MAT 101.

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