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Independent University Bangladesh (IUB)



Spring 1994
The Courses and Syllabi

Vol. 1, No. 1, Addendum 2

Plots 3 & 8, Road 10, Baridhara
Dhaka-1212.
Phones: 604129, 602086, 601073; Fax. 880-2-883959

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INDEPENDENT UNIVERSITY, BANGLADESH

(Authorised under the Private University Act 1992)

dedicated to produce graduates with knowledge and applied skills for tomorrow's leadership

Academic Plan and Curriculum
approved by
the University Grants Commission

1 February 1994

Telephones: Business Office 604129, 602086
Campus 601073, 882019
Fax 880-2-883959

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Rector:

National Prof. M. Innas Ali, M.Sc., M.E.E., Ph.D.
Fellow, Third World Academy of Science
Fellow, Bangladesh Academy of Science

Assistant Dean, Academic Affairs

Ms. Yasmine Z. Mahmud, M.A.

Faculty:

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Prof. Bazlul Mobin Chowdhury, M.A., Ph.D. (U.K.)
Prof. Syed Anwar Husain, M.A., M.A. Sr. Hons.(Edin.), Ph.D.(London), Professor, History
Prof. Amin Mohammad Ali, M.A., Ph.D. (Sussex) Professor of Economics
Dr. Mohammed Anwer, B.Sc.(Engg.), M.S.(Engg.), Ph.D.(Arizona), Assoc. Professor, Mathematics/Computer Science
Dr. Aminul Islam, M.Sc., Ph.D.(USSR), Assoc. Professor, Environmental Science
Dr. Ahaduzzaman M. Ali, M.A., Ph.D.(Leeds), Assoc. Professor, Communication
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Mr. Munir Mahmood, B.Sc.(Engg.), B.A.(Math), M.Sc., Asst. Professor, Mathematics/Computer Science
Mr. Aminur Rahman, M.B.A.(Melbourne), Asst. Professor, Finance/Accounting

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Dr. Galina Shevchenko, Dr. Math (Moscow State U.), Math. and Physics.
Dr. Jacob Henry "Cub" Kahn, M.S., Ed.D., Environmental Management
Ms. Delphine Hilly-Lawson, Postgraduate Masters (University of Paris), Communication (French)

Adjunct:

Prof. Gowher Rizvi, M.A.(Oxon), D.Phil(Oxon)
Dr. Syed Akhter Hossain, M.Sc., Ph.D. (Nottingham), FRSC
Dr. Krishna Pado Mondal, M.A.(Baroda), Ph.D.(Benares)

President's Message

Higher education is effective to the extent that it can produce, from the youth of to-day, the leaders for tomorrow. It must be based upon up-to-date knowledge and the state of its application within one's own society so that the graduates have skills for innovation and the experience of adaptation.

IUB curriculum, course method, guidance and counselling are carefully designed and monitored all the time to equip graduates with theoretical knowledge and methods of logical thinking, team work, decision-making, flexibility and crisis management skills needed for the leadership in an extremely competitive world of tomorrow.

Students enrolled in IUB's first academic year 1993-94 are the "Charter" students of this University. They carry our hopes and their career is keenly watched by all including their parents who have established IUB to provide useful education to the youth.

I believe the Spring Semester will be enjoyable and rewarding to both incoming and continuing students of IUB.

A. Majeed Khan
President

A Message from the Rector

The main objective of modern education is to increase the capacity of the community to manage its endowment and environment so as to effect significant improvement in the quality of its life. It includes acquisition of skills appropriate to certain specialised tasks that are peculiar to a technically oriented mode of life and modern civilization.

The University is the main platform for moving us into the centre of this civilization. So the focus of formal education now-a-days should be the university level with rest of the system restructured in such a way as to reflect the performance of the university as the apex of the system. The Independent University, Bangladesh (IUB) has been set up to play this strategic role of modern education in Bangladesh. It puts utmost stress on its qualitative growth, rather than quantitative expansion, maintaining the international standards of curriculum, course method, training of mind and hands, guidance and counselling. IUB aims at serving the total education process, transmission of existing knowledge and creation and dissemination of new knowledge. It also aims at the solution of problems of development, thus unifying teaching, research, and service in its programme of studies. The main objective of the University is to prepare the standards to acquire innovative skills, professional competence, decision making and management capacity so as to enable them to take leadership in the socio-economic development in the country.

M. Innas Ali
National Professor and Rector

INDEPENDENT UNIVERSITY, BANGLADESH (IUB)

SPRING SEMESTER 1994
COURSE SCHEDULE AND SYLLABI

IUB is committed to produce international standard graduates who will be equipped to provide new leadership to national economy through skilled employment, entrepreneurship or applied research. The curriculum of IUB has been carefully designed to provide students with (1) communicative skills, (2) socio-cultural foundation, (3) a major course of study with applied skills or project based experience and (4) an area of sub-specialization. To ensure international standards in teaching and to provide wide options for students to study abroad or exchange experience, IUB maintains peer relation with a large number of universities and institutions abroad. The programme of study and the academic regulations at this university are based on the American system.

IUB offers a 4-year Bachelor of Arts (B.B.A.) and Bachelor of Science (B.Sc.) Honours degree programme in three interdisciplinary areas: (1) Business, (2) Communication, and (3) Environmental Management. Preparations are under way to establish separate schools or faculties representating each of these programmes. The courses providing communicative skills and liberal background are grouped under the Foundation and Elective Programme.

In the first year students are recommended to take required courses on learning skills, national culture and electives in arts and science.

Introduction

The courses are grouped under major inter-disciplinary areas and under the Foundation Programme. The courses listed cover some of the university requirements in four of the five basic areas: (1) Literacy, (2) Numeracy, (3) National Culture and Heritage and (4) Arts and Science, and several courses under different group programmes.

Every student will be assigned an adviser to help him or her prepare a study plan and select courses. A course marked optional requires prior permission of the instructor concerned. In addition, he or she must be familiar with the following basic academic regulations:

Admission standard:

Any of the four below:

1) Higher Secondary Certificate (HSC) Examination (with one first division in either HSC or SSC) of Bangladesh Secondary Education Boards.

2) General Certificate of Education (GCE) of any of the matriculation boards of the UK in 6 subjects of which at least two in Advance Level, or 11, plus SAT.

3) International Baccalaureate (IB).

4) American High School diploma equivalent.

Full-time and Part-time students:

Any student registered for a course load of 12 to 18 credits, will be required to pay the full tuition fee for the semester, and will be classified as a full time student.

A student registered for fewer than 12 credits, will be classified as a part-time student, and pay tuition fees at pro-rata of 15 credits deemed as full-time engagement. For example, a student registered for 9 credits will pay 60% of the full tuition fee.

Any student wishing to take more than 18 credits in a semester will require prior written consent of his or her academic adviser. A student may change status from full time student to part-time student or vice versa, normally during the first two weeks of the semester.

Registration procedure:

A student registering for the semester should:

a) Pick up a blank course registration form from the office of the Secretary General;

b) Select courses in consultation with the student's academic adviser and fill out the registration form;

c) Take the signature of each instructor concerned;

d) Fill up the adviser's name, and take his or her signature;

e) Submit the form to the office of the Secretary General;

Drop/Add procedure:

A student may drop or add courses during the first two weeks of the semester. To add a course, he or she must have the approval of the course instructor.

a) Pick up a Drop/Add form from the Office of the Secretary General;

b) Fill up the relevant section to drop and/or add courses;

c) Take the signature of the instructor if a course is being added;

d) Submit the form to the Office of the Secretary General.

Note: Students are not allowed to add any regular course after the second week unless the course concerned starts at a later date.

Electing the honours:

It is advisable that a student chooses his or her honours/major no later than in the second semester of the sophomore year.

Classification of student status and graduation:

0 to 29 credit hours earned	=	Freshman
30 to 59 credit hours "	=	Sophomore
60 to 89 credit hours "	=	Junior
90 or more credit hours "	=	Senior

In order to graduate from IUB, a student must have a minimum of 2 academic years in residence and, he or she must have satisfied all the requirements for:

1) the honours
2) the minor
3) the basic skills and foundation courses
4) any other courses, if specified.

In order to graduate at IUB a student is required to have a cumulative grade point average (GPA) of at least 2.0 on courses taken at IUB.

Grading used as follows:

A - Excellent	4 points	E - Pass	0 point
B - Good	3 points	F - Fail	
C - Fair	2 points	I - incomplete	
D - Poor	1 point	W - Withdrawn	
Y - No grades given		Z - Grades not received	

No grade points are granted for work less than D. Grade Point Average (GPA) is calculated by total points ÷ total credits.

Transfer credits:

Students can apply to the Academic Dean for transfer credits on the basis of the following criteria:

1) The course (or courses) which the student wishes to transfer should at least have a "C" grade standard.

2) Before transfer credits can be confirmed, each course taken at another institution for which credits are requested will be evaluated for its compatibility or equivalence with existing IUB course(s), by the appropriate IUB faculty member.

3) If the value and content of the course is uncertain, the student may be given an examination to qualify for the credits applied for.

Note: The examination is given by the relevant faculty member. If passed to the satisfaction of departmental regulations, the instructor will recommend to the Academic Dean the number of credits to be transferred. The Academic Dean maintains a record of the transfer credits.

Credits are also awarded to students who have secured 75% marks in the aggregate or 80% in a single subject in the HSC examination or passed with minimum "B" grades in the A-Level examination of the UK matriculation boards or its equivalent in International Baccalaureate (IB) diploma.

(1) Applicants with HSC qualification will earn 9 credits per subject with a score of 80 and above and 27 credits for an average score of 75 percent (*) in the Examination.

(2) Applicants with GCE A-Level results will earn 9 credits for grade "A" and 6 credits for grade "B".

(3) Applicants with IB diploma will earn 6 credits for the third subject taken at the higher level and 9 credits in any subject with a score of 6 and above.

Note: Credits will be awarded only on the basis of their relevance to the planned course of study.

Merit scholarship:

1) Merit scholarships for freshmen are awarded to students who have earned positions in the HSC examination under the 4 Boards namely Dhaka, Rajshahi, Jessore and Comilla or have secured minimum all "B" grades in the A-Level examination of the UK matriculation Boards.

2) Scholarship is tenable for 1 academic year.

3) Subsequent scholarships will be awarded on the basis of superior academic performance as judged by the IUB.

Recognition of outstanding performance:

A student who earns a GPA of 3.5 in any semester will be placed on the Dean's list for that semester.

Reporting of grades:

At the end of each semester the grade report will be sent to each student's sponsor/sponsoring agency and separately to the student. The grades will be posted out within 3 weeks of the last day of the semester unless the student has financial obligations to the University.

Course withdrawal:

Course withdrawal deadline:

A student may officially withdraw from a course until the first day of the ninth week of an academic semester. The withdrawal will not affect the fees for the semester.

Course withdrawal procedure:

A student wishing to withdraw from a course shall fill out a course withdrawal form, get it endorsed by the instructor and submit it to his or her academic adviser. The adviser satisfied with reasons given for withdrawal will then notify the office of the Academic Dean.

Academic record of course withdrawal:

The withdrawal week will be recorded in the semester transcript so that the academic adviser can identify the student's problems and advise on alternative plans, if required.

"Incomplete" (I) grades given for partial completion of a course requirement:

A student may apply to an instructor for an incomplete grade in the event of illness of self or immediate family members, temporary relocation or other compelling circumstances.

Academic record of "Incomplete" (I) grades:

An "Incomplete" grade will be recorded in the semester transcript and no credit will be granted. Unless the student completes the course within the following semester the grade becomes an F.

Repeating a course:

Students earning grade "C" or lower in a given course may repeat that course with a view to improving their grade. Courses may be repeated once only. The final transcript will only record the credits for one course and the superior grade of the two.

Course Description

BUSINESS ADMINISTRATION PROGRAMME

ACN 201 Principles of Accounting I (3 hours): Accounting; an information system. Double-entry system. Accounting cycle. Data processing: manual and electronic systems. Principal financial statements, balance sheet, income statement, profit and loss statement. Costings; internal control and cash. Trade accounts and notes. Inventory, assets, liabilities and depreciation. Partnership accounting; accounting for partnership formation and operation. Cost-volume - profit analysis.

ACN 202 Principles of Accounting II (3 hours): Corporate organization; Annual reports: income statements, profit & loss, balance sheet, funds sources and applications; Interim financial statements; Accounting for capital stock; Accounting for corporate earnings; Accounting for corporate bonds; Accounting for investments and long term intangible assets; Accounting for branch and consolidated operations; Accounting for job-order manufacturing business; Analysis and interpretation of financial statements.

ECN 201 Principles of Microeconomics (3 hours): Basic concepts of Economics; overview of microeconomics: concepts, tools and techniques. Theory of demand; consumer behaviour and market demand. Theory of production, production and cost functions. Price and output determination in different product markets; perfect competition, monopoly, oligopoly and monopolistic competition. Factor markets, pricing of factor of production. Markets and economic efficiency; public goods and externalities. Role of government. Income distribution, sources and cost of inequality, redistribution of income.

ECN 202 Principles of Macroeconomics (3 hours): Basic concepts of Economics. Macroeconomics; concepts, tools and techniques. National income and other related concepts. Measurement and uses; aggregate demand and supply; consumption

and saving, investment. Demand and supply of money, and demand and supply of labour. Theories of national income determination in a closed economy. Business cycles, unemployment and inflation, fiscal, monetary and income policies. National income determination in an open economy; internal and external balance. Economic growth.

FIN 201 Introduction to Finance (3 hours): Financial analysis; Statement of cash flows. Financial environment. Essential concepts in Finance. Efficient Market Hypothesis; Net present value, internal rate of return, pay-back period; Planning and control. Working capital management; capital budgeting; cost of capital; capital structure, leverage. Dividend policy. Long-term financing; leasing. (Pre-requisite MAT 211)

MGT 201 Principles of Management (3 hours): Concepts and meaning of Business Management. Review of management principles and theories. Functions of business management: planning, organizing, staffing, motivating and controlling. Different techniques of management and social responsibility of management. Management processes, board of directors' functions and responsibilities.

MGT 211 Organizational Behaviour (3 hours): Introduction; managerial work; motivation; communication; leadership. Organizational structure, culture and change. Power and politics. Conflict and stress. Personality; problem solving; performance management. Career development, job design, group and executive competencies.

MKT 201 Principles of Marketing (3 hours): Overview, environment of marketing; strategic planning and marketing; information for marketing decisions. Understanding consumers: Consumer life-style and decision making; organizational consumers; Target-market strategy. Product Planning: conceiving, developing and managing products; branding and packaging. Distribution planning: wholesaling, advertising and issues thereof. Promotion planning: advertising and publicity; personal selling and sales

promotion. Price planning: Pricing strategy and techniques. Marketing Audit--SWOT Analysis and the Marketing Plan. International marketing, Service and nonprofit marketing. Social issues of marketing. Social marketing.

COMMUNICATION PROGRAMME

CSC 102 Advanced Computer Skills (3 hours): The students will be given a comprehensive coverage on Spreadsheet program Lotus123/Supercalc and dBase/Foxbase. (Prerequisite CSC 101, or equivalent).

CSC 200 Concepts in Computer Science (3 hours): The course is an accelerated coverage of different concepts and scope of computer science with detailed instruction in PASCAL language. Programming topics include: Algorithm; Data & program construction; Top-down design; Input design methodology; Interactive I/O; File, keyboard and other I/O; Conditional statements -IF-THEN-ELSE and WHILE statements; REPEAT, FOR, CASE looping; procedures; functions, precisions and recursions; one and multidimensional arrays; data abstraction; file and pointers; introduction to data structures. (Prerequisite: CSC 101)

CMN 201 Introduction to Communication (3 hours): Concepts and definitions; symbolic and motivational bases of communication; scope and purpose; process of communication. *Context of communication*: Intrapersonal, interpersonal, group and organizational; mass communication. *Functions of communication:* Psychological and sociological perspectives. *Interaction:* Empathy, inference and role-taking. *Effectiveness of communication:* Factors affecting effectiveness, psychology of influence. *Uses and effects of media*: Media uses and gratifications, media and socialization; impact of media violence; case study and field experience. *Changing nature of communication:* New communication technologies; social impact of communication technologies.

CMN 301 Development Communication (3 hours): *Development concepts and problems:* Indicators of development and underdevelopment; basic needs strategy; perception of development from below. *Role of communication in development:* Paradigms; mass media as mobility multipliers and smoothers of transition; contributory role of communication. *Communication of innovations:* Elements in the diffusion of innovations; consequences of innovations; generalizations about the diffusion of innovations. *Communication Networks:* Network variables in explaining individual behavioural, group and system performance in development. *Communication and specific areas of development:* Agriculture; health and nutrition; environment. *Indigenous communication systems:* Culture, development and change; use of indigenous communication systems for planned change.

MAT 201 Calculus with Analytic Geometry (4 hours): Differential Calculus: Variables, functions and limits. Differentiation. Rules for differentiating algebraic forms. Application of differentiation: tangent and normal, maxima and minima, rate of change. Successive differentiation. Transcendental functions. Radius of curvature. Theorem of mean values: Rolle's Theorem. Maclaurin's Theorem. Taylor's series. Integral calculus: Standard Elementary forms. Definite integrals. Introduction to discrete integration by Trapezoidal, Rectangular and Simpson's rule. Integration by parts. Rational functions. Substitutions. Reduction formulas. Introduction to multiple integrals. Analytic Geometry: properties of conic sections. Pairs of circles and straight lines. (Prerequisite: MAT 101 or equivalent)

ENVIRONMENTAL MANAGMENT PROGRAMME

ENV 201 Environmental Chemistry (3 hours): Basic chemistry of atmosphere, hydrosphere, lithosphere. Toxic substances in the environment and their classification. Chemical pollution of air, water and land: sources and effects; air and water quality parameters and standards. Instrumental techniques in environmental chemical analysis; air quality monitoring and pollution control; waste water treatment techniques.

ENV 205 Energy and Environment I (3 hours): Energy sources and their uses in different sectors. Past, present and projected future trends in energy usage. Environmental aspects of the use of fossil fuels, nuclear energy, hydropower and alternative energy sources: thermal pollution, gaseous discharges, particulate emissions, nuclear radiation, nuclear waste management, greenhouse effect and acid rain. Available technology for improving energy efficiency.

POP 201 Population and Environment (3 hours): Human population dynamics: factors affecting human population change; birth rate and death rate and migration; demographic transition model; population and resource trends in Bangladesh. Environmental effects of population growth. World growth patterns and their relationship to natural resources and the environment. Family planning programmes in Bangladesh. Bangladesh in the coming decades: competition for scarce resources and population policy studies. Case studies: Population control in China and India.

FOUNDATION AND ELECTIVE PROGRAMME

CSC 101 Basic Computer Skills (3 hours): Introduction to Desktop personal computers. Hardwares and softwares. Basic idea of the working of microprocessors. Storage devices. System components: Variation. Basic concepts of BIOS. Diskette Operating System. Internal and external commands. Function keys. Line editors and screen editors. Batch files. BASIC programming language. Variable and constants. Mathematical operations. Conditional branching. Looping and arrays. Dimensioning arrays. Subprograms. I/O operations. Word Processing: On-hand practice with one of the word processors: Word, Wordperfect or Wordstar. Will cover: Basic editing. formatting, pagination, margin control, spell checking, Searching and sorting.

ENG 101 English Writing Skills (3 hours): Course content: *Communication between people:* Giving advice and opinions; giving instructions; requesting; complaining and apologizing; inviting formally and informally; describing spacial arrangements; describing

movements and directions. *Presenting ideas:* Description of objects, places, people and processes; narration; cause-effect or effect-cause; comparison and contrast; generalization ; argumentation; implication and inference; illustration and analogy; evidence. *Business communication:* Job application; inquiries; claims and adjustments; notices and advertisements; notes and messages; sales letters; reports. *Composition skills:* Cohesive ties; paragraph structure; essay structure; modes of developing the main idea of a paragraph or an essay; writing descriptions, narratives, arguments and expositions; writing at different levels of formality and with different emotive effects

ENG 102 English Oral Communication Skills (3 hours): *Language Functions:* Greeting and introducing oneself; talking over the phone; asking people to do things; asking for and giving information; asking and giving permission; asking and giving directions; describing; narrating events; complaining, apologizing and forgiving; offering help; giving opinions; giving instructions; stating intentions and probabilities; making suggestions; giving talks; expressing moods and feelings; saying goodbye.

FRN 101 Elementary French I (3 hours): Letters of alphabet. Accents and their pronunciation. Numbers and time. Definite and indefinite articles (feminine/masculine, singular/plural). Personal pronouns. Auxiliaries "to be" and "to have", verbs ending with '-er', in the present tense. Interrogative, negative form. Simple adjectives (descriptive, colours). Presenting oneself.

FRN 102 Elementary French II (3 hours): Verb ending with "-ir" and "-re" in the present time. Adjectives, possessive and demonstrative adjectives. Adverbs. Conjunctions. Partitive articles. Describing, ordering, shopping.

ENV 101 Introduction to Environmental Science (3 hours): Concept and scope of environmental science. Earth's atmosphere, hydrosphere, lithosphere and biosphere. Humans and nature; technology and population; ecological concepts and ecosystems; environmental quality and management: agriculture, fishery, forestry

and wildlife. Energy and mineral resources: Renewable and non-renewable resources. Environmental degradation; pollution and waste management. Environment policy and planning.

MAT 101 Basic University Mathematics (3 hours): Theory of numbers: number systems. Set Theory: notations, subset, superset; Algebra of sets; Venn-Euler diagrams. Coordinates and locus; definition of Cartesian, Polar and spherical coordinate systems; distance between two points; interpolation and extrapolation. Straight line: equations in slope form, intercept form; linearity of three points. Circle: general equation of a circle; tangent at a given point. Tangent from an outside point. Calculus: limits and continuity; Differential calculus; differentiation of product and quotient; application of differentiation; integral calculus; integration by parts; application of integral calculus. Vector and Matrices: units vectors; Algebra of vectors; dot and cross products; elementary concepts of a matrix; elementary row operations; solutions of linear equations.

MAT 211 Probability and Statistics (3 hours): Nature of statistics,' organizing data. Descriptive measures - mean, median, mode, variance, skewness and kurtosis. Probability concepts. Discrete and continuous random variables. Discrete and continuous distributions. Detailed study of Binomial, Poisson, Normal, Exponential distributions. Sampling distributions of mean. Confidence intervals. Hypothesis testing and statistical inferences. Chi-square procedures. Descriptive methods in linear regression. Introduction to nonlinear regression. Conducting studies.(Prerequisite: MAT 101)

NCH 101 National Culture and Heritage - I (3 hours): Anthropological explanation of early societies. History of ancient Bengal; Pala civilization; Brahmanism and Buddhism; Coming of Islam; growth of Muslim society; main trends in the history of Medieval Bengal; role of the independent sultans. Sufism and the Bhakti movement. The coming of the Europeans. Bengal under the East India Company; impact of western education; religious and social reform movements; growth of public opinion and the

beginnings of the nationalist movement; rise of Muslim separatist movement and the birth of Pakistan. The language movement and its impact on political and cultural developments; rise of regional nationalism and emergence of Bangladesh. Social and economic changes. Women and society.

NCH 201 National Culture and Heritage - II (3 hours): Religion and social sciences; nature of religious belief; myth and religion; religion ethics and morality; comparative religion: Hinduism, Buddhism, Judaism, Christianity, Islam, Tribal aminism. Syncretism, Humanism and Rationalism. Society and social thought in Bengal. Cultural heritage of Bengal; development of art, architecture, literature and music.

NCH 103 Western Civilization (3 hours): Meaning, growth and spread of civilization; ancient Near East; Mesopotamia; Egypt; the Hebrews; Hittites; Canaanites; Philistine; Phoenicians; Crete, and Mycenea. The Classical World; Greeks; Romans. The Medieval Age; Christianity; Barbarian invasions; Feudalism; Manorial Systems. Growth of towns and universities. Byzantine civilization and formation of Russia. Early Cultures in America; the Mayas; the Aztecs, and the Incas. The Renaissance and the Reformation. Government and Societies in the age of absolutism. The Age of Explorations; formation of Latin America. Scientific and Industrial Revolutions. Consolidation of Europe's global dominance. World War I and the Bolshevik Revolution in Russia.

PHY 101 University Physics - I, Mechanics and Heat (3 hours): Models, measurement and vectors. Motion in a straight line. Motion in a plane. Newton's Laws of Motion. Applications of Newton's Law's. Circular motion and Gravitation. Work and Energy. Impulse and Momentum. Rotational motion. Equilibrium of a rigid body. Periodic motion. Elasticity. Fluid Statics. Temperature and expansion. Quantity of heat. Heat transfer. Thermal properties of matter. First Law of Thermodynamics. Second Law of Thermodynamics. Kinetic Theory of Gases. Molecular properties of matter.

SSC 201 Social Science - I (3 hours): *Theory of Knowledge and Social Thought:* Early beliefs of people; philosophical and religious basis of society. Theories of knowledge building. Development of ancient, medieval and contemporary social thought. Empiricism; rationalism; and pragmatism. Scientific methods and methods of social science. *Sociology:* Sociological perspective; elements of social organization; social process; social institutions. Social Stratification and mobility; deviance and change. Organized society. Social change. *Economics:* An introduction to micro and macro economics and general equilibrium theory covering such topics as; consumer demand, theory of production, market equilibrium under perfect competition. National income accounting. Classical Keynesian and neo-classical models of economy.

Course listing and schedule for Spring 1994 semester

Line No.	Course	Course Title	Cr	Instructor	Days	Time	Room
Business Administration Programme							
ACN20101	ACN 201	Principles of Accounting-I	3	Rahman, A	MW	8:00-9:15	302
		Tutorial			Th	12 Noon-1:40	302
ACN20201	ACN 202	Principles of Accounting-II	3	Rahman, A	STTh	8:00-8:50	302
		Tutorial			S	12 Noon-1:40	302
ECN20101	ECN 202	Principles of Macroeconomics	3	Instructor	STTh	9:00-9:50	202
		Tutorial			T	12 Noon-1:40	202
ECN20201	ECN 201	Principles of Microeconomics	3	Instructor	MW	1:30-2:45	302
		Tutorial			W	3:00-4:40	402
FIN20101	FIN 201	Introduction to Finance	3	Rahman, A	STTh	3:00-3:50	302
		Tutorial			S	4:00-5:40	302
MGT20101	MGT 201	Principles of Management	3	Instructor	STTh	11:00-11:50	302
		Tutorial			Th	3:00-4:40	302
MGT21101	MGT 211	Organizational Behavior	3	Instructor	MW	8:00-9:15	105
		Tutorial			Th	12 Noon-1:40	105
MKT20101	MKT 201	Principles of Marketing	3	Farouk, A	MW	1:30-2:45	402
		Tutorial		To be announced by the Instructor			
Communication Programme							
MAT20101	MAT 201	Calculus with Analytic Geometry	4	Anwer, M	MW	8:00-9:40	402
		Tutorial			Th	12 Noon-1:40	402

Line No.	Course	Course Title	Cr	Instructor	Days	Time	Room
MAT21101	MAT 211	Probability and Statistics	3	Anwer, M	STTh	9:00-9:50	302
		Tutorial			T	12 Noon-1:40	302
CSC10201	CSC 102	Advanced Computer Skills	3	Instructor	STTh	10:00-10:50	401
		Tutorial			S	3:00-4:40	401
CSC20001	CSC 200	Concepts in Computer Science	3	Instructor	MW	12 Noon-12:50	204
		Tutorial			T	3:00-4:40	204
CMN20101	CMN 201	Introduction to Communication	3	Ali, Ahaduz	STTh	2:00-2:50	204
		Tutorial		To be announced by the Instructor			
CMN30101	CMN 301	Development Communication	3	Ali, Ahaduz	STTh	3:00-3:50	204
		Tutorial		To be announced by the Instructor			
Environmental Management Programme							
ENV20101	ENV 201	Environmental Chemistry	3	Islam, A.	STTh	10:00-10:50	204
		Tutorial			S	3:00-4:40	204
ENV20501	ENV 205	Energy and Environment	3	Matin, A	MW	12 Noon-1:15	302
		Tutorial			W	3:00-4:40	302
POP20101	POP 201	Population and Environment	3	Kahn, C	STTh	11:00-11:50	204
		Tutorial			Th	3:00-4:40	204
Foundation and Elective Programme							
CSC10101	CSC 101	Basic Computer Skills	3	Anwer, M	STTh	11:00-11:50	401
		Tutorial			Th	3:00-4:40	401

Line No.	Course	Course Title	Cr	Instructor	Days	Time	Room
CSC10102	CSC 101	Basic Computer Skills Tutorial	3	Anwer, M	MW	9:30-10:45	401
					T	3:00-4:40	401
CSC10103	CSC 101	Basic Computer Skills Tutorial	3	Anwer, M	STTh	2:00-2:50	401
					M	3:00-4:40	401
ENG10101	ENG 101	English Writing Skills Tutorial	3	Islam, M/Instructor	STTh	8:00-8:50	201
					S	12 Noon-1:40	201
ENG10102	ENG 101	English Writing Skills Tutorial	3	Islam, M/Instructor	MW	9:30-10:45	201
					T	3:00-4:40	201
ENG10103	ENG 101	English Writing Skills Tutorial	3	Islam, M/Instructor	STTh	2:00-2:50	201
					M	3:00-4:40	201
ENG10104	ENG 101	English Writing Skills Tutorial	3	Islam, M/Instructor	MW	12 Noon-1:15	201
					W	3:00-4:40	201
ENG10201	ENG 102	English Oral Communication Skills Tutorial	3	Islam, M/Instructor	STTh	8:00-8:50	402
					S	12 Noon-1:40	402
ENG10202	ENG 102	English Oral Communication Skills Tutorial	3	Islam, M/Instructor	MW	9:30-10:45	402
					T	3:00-4:40	101
ENG10203	ENG 102	English Oral Communication Skills Tutorial	3	Islam, M/Instructor	STTh	2:00-2:50	101
					M	3:00-4:40	101
ENG10204	ENG 102	English Oral Communication Skills Tutorial	3	Islam, M/Instructor	MW	1:30-2:45	101
					Th	3:00-4:40	101
ENV10101	ENV 101	Introduction to Environmental Science Tutorial	3	Islam, A.	STTh	8:00-8:50	101
					S	12 Noon-1:40	101
ENV10102	ENV 101	Introduction to Environmental Science Tutorial	3	Islam, A.	MW	8:00-9:15	101
					Th	12 Noon-1:40	101
FRN10101	FRN 101	Elementary French-I Tutorial	3	Hilly-Lawson, D	MW	12 Noon-1:15	204
					W	3:00-4:40	204

Line No.	Course	Course Title	Cr	Instructor	Days	Time	Room
FRN10201	FRN 102	Elementary French-II	3	Hilly-Lawson, D	MW	1:30-2:45	204
		Tutorial			T	3:00-4:40	302
MAT10101	MAT 101	Basic University Mathematics	3	Shevchenko, G	STTh	8:00-8:50	204
		Tutorial			S	12 Noon-1:40	204
MAT10102	MAT 101	Basic University Mathematics	3	Shevchenko, G	MW	8:00-9:15	204
		Tutorial			Th	12 Noon-1:40	204
MAT10103	MAT 101	Basic University Mathematics	3	Shevchenko, G	STTh	9:00-9:50	204
		Tutorial			T	12 Noon-1:40	204
PHY10101	PHY 101	University Physics-I	3	Instructor	STTh	9:00-9:50	402
		Tutorial			T	12 Noon-1:40	402
NCH10101	NCH 101	National Culture and Heritage-I	3	Ahmed, S/Instructor	MTh	10:00-11:15	101
		Tutorial		To be announced by the Instructor			
NCH10102	NCH 101	National Culture and Heritage-I	3	Ahmed, S/Instructor	ST	10:00-11:15	101
		Tutorial		To be announced by the Instructor			
NCH10301	NCH 103	Western Civilization	3	Hussain, A	STTh	9:00-9:50	105
		Tutorial			T	12 Noon-1:40	105
NCH20101	NCH 201	National Culture and Heritage-II	3	Ahmed, S/Instructor	ST	10:00-11:15	201
		Tutorial		To be announced by the Instructor			
SSC20101	SSC 201	Social Science-I	3	Instructor	STTh	10:00-10:50	302
		Tutorial			S	3:00-4:40	402

Note:
Days: S Sunday, M Monday, T Tuesday, W Wednesday, Th Thursday

28 29 30 31 | 19 10 11 | 13 14 15 16 27 28 29 | 3 4 5 6 7 8 9

1994-95 Calendar

New students registration for the Spring semester (fees and formalities)	6 - 9	March
Eid ul Fitr (holiday)	13 - 15	March
Course registration	16 - 19	March
Classes begin	20	March
National Day (holiday)	26	March
Course drop/add ends	31	March
Late admission closes	31	March
University Assembly (10:00-11:00)	2nd & 4th	every Wednesdays
Bengali New Year (holiday)	14	April
Freshers' day	22	April
International Manpower Day (Labour day - holiday)	1	May
Mid-term examinations	15 - 19	May
Eid ul Azha & Buddhist Full Moon (holidays)	20 - 24	May
Summer course registration	25 - 29	May
Semester final examinations	3 - 10	July
Normal end of semester	14	July
Official end of semester	17	July

Summer session begins	31	July
Final examinations	11 - 14	September
Session ends	15	September

Registration for the Autumn Semester 1994 (fees and formalities - all students)	12 - 22	September
Course registration	26 - 29	September
Classes begin	2	October
Durga Puja (holiday)	14	October
Mid Semester examinations	13 - 17	November
Victory Day (holiday)	16	December
Semester final examinations	8 - 12	January'95
International evening (cultural programme)	15	January'95
Official closing of the Semester	16	January'95

1994

FEBRUARY

SAT		5	12	19	26
SUN		6	13	20	27
MON		7	14	21	28
TUE	1	8	15	22	
WED	2	9	16	23	
THU	3	10	17	24	
FRI	4	11	18	25	

MARCH

SAT		5	12	19	26
SUN		6	13	20	27
MON		7	14	21	28
TUE	1	8	15	22	29
WED	2	9	16	23	30
THU	3	10	17	24	31
FRI	4	11	18	25	

APRIL

SAT	30	2	9	16	23
SUN		3	10	17	24
MON		4	11	18	25
TUE		5	12	19	26
WED		6	13	20	27
THU		7	14	21	28
FRI	1	8	15	22	29

MAY

SAT		7	14	21	28
SUN	1	8	15	22	29
MON	2	9	16	23	30
TUE	3	10	17	24	31
WED	4	11	18	25	
THU	5	12	19	26	
FRI	6	13	20	27	

JUNE

SAT		4	11	18	25
SUN		5	12	19	26
MON		6	13	20	27
TUE		7	14	21	28
WED	1	8	15	22	29
THU	2	9	16	23	30
FRI	3	10	17	24	

JULY

SAT	30	2	9	16	23
SUN	31	3	10	17	24
MON		4	11	18	25
TUE		5	12	19	26
WED		6	13	20	27
THU		7	14	21	28
FRI	1	8	15	22	29

AUGUST

SAT		6	13	20	27
SUN		7	14	21	28
MON	1	8	15	22	29
TUE	2	9	16	23	30
WED	3	10	17	24	31
THU	4	11	18	25	
FRI	5	12	19	26	

SEPTEMBER

SAT		3	10	17	24
SUN		4	11	18	25
MON		5	12	19	26
TUE		6	13	20	27
WED		7	14	21	28
THU	1	8	15	22	29
FRI	2	9	16	23	30

OCTOBER

SAT	1	8	15	22	29
SUN	2	9	16	23	30
MON	3	10	17	24	31
TUE	4	11	18	25	
WED	5	12	19	26	
THU	6	13	20	27	
FRI	7	14	21	28	

NOVEMBER

SAT		5	12	19	26
SUN		6	13	20	27
MON		7	14	21	28
TUE	1	8	15	22	29
WED	2	9	16	23	30
THU	3	10	17	24	
FRI	4	11	18	25	

DECEMBER

SAT	31	3	10	17	24
SUN		4	11	18	25
MON		5	12	19	26
TUE		6	13	20	27
WED		7	14	21	28
THU	1	8	15	22	29
FRI	2	9	16	23	30

JANUARY / 1995

SAT		7	14	21	28
SUN	1	8	15	22	29
MON	2	9	16	23	30
TUE	3	10	17	24	31
WED	4	11	18	25	
THU	5	12	19	26	
FRI	6	13	20	27	

Weekly Schedule

	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00
Sun										
Mon										
Tue										
Wed										
Thu										
Fri										
Sat										

Note: Shadow area indicates holidays - there may be excursions and field trips