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Independent University Bangladesh (IUB)



Autumn 1993
The Courses and Syllabi

Vol. 1, No. 1, Addendum 1

House 8, Road 10, Baridhara
Dhaka-1212.

The Governing Council

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Prof. M. Innas Ali, Rector

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Member, Board of Trustees, Aga Khan University, Karachi

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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 October 1993

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

The University reserves the rights to revise information, requirements, regulations or financial charges at any time. Whenever changes occur, an effort will be made to notify persons who may be concerned.

Rector:

Professor M. Innas Ali
M.Sc.(Dac), M.E.E.(New York), Ph.D (London)
National Award as distinguished Scientist
Fellow, Third World Academy of Science
Fellow, Bangladesh Academy of Science

Faculty:

Prof. A.F. Salahuddin Ahmed, M.A.(Cal), M.A.(Penn), Ph.D (London),
Professor, National Culture & Heritage
Prof. Abdullah Farouk, M.A.(Cal), Ph.D, Professor, Marketing
Prof. Syed Anwar Husain, M.A., M.A. Sr. Hons.(Edin.), Ph.D.(London),
Professor, History
Dr. Shams-ur-Rahman, M.Sc.(Engg.), M.E.(AIT), Ph.D.(Exeter),
Assoc. Professor, Business Management
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
Ms. Galina Shevchenko, Dr. Math (Moscow State U.),
Assoc. Professor, Mathematics and Physics.
Dr. Ahaduzzaman M. Ali, M.A., Ph.D.(Leed),
Assoc. Professor, Communication
Mr. Syed Mazharul Islam, M.A., M.A.(Heriot-Watt, Edin.),
Asst. Professor, Communication (English Language)
Ms. Rubina Khan, M.A., M.A.(Indiana),
Asst. Professor, Communication (English Language)
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
Dr. Krishna Pado Mondal, M.A.(Baroda), Ph.D.(Benares),
Asst. Professor, Music

International:

Dr. Satyendra Nath Dutt, B.A. Hons.(Delhi), M.A.(Drake),
Ph.D.(Texas Tech.), Economics
Dr. Jacob Henry "Cub" Kahn, M.S., Ed.D., Environmental Management
Ms. Delphine Hilly-Lawson, Postgraduate Masters (University of Paris),
Communication (French)

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 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 its first academic year 1993-94 are the "Charter" students of this University. They shall carry our hopes and their career will be keenly watched by all including their parents who have drawn a covenant for establishing IUB to provide useful education for our youth.

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

A. Majeed Khan
President

INDEPENDENT UNIVERSITY, BANGLADESH (IUB)

AUTUMN SEMESTER 1993
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.

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

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

In Spring Semester 1993, when IUB opened its doors to students, only 7 courses were offered. This semester, Autumn 1993, it offers 22 courses. The "Charter" students of the first year will experience more academic resource and course choices as IUB progressively realizes its academic plans.

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.

A normal class consists of 20 to 25 students.

Every student will be assigned an adviser to help him/her prepare a study plan and select courses. A course marked optional requires prior permission of the instructor concerned.

Explanation of course prefixes:

CSC-Computer Science and Communication. MAT-Mathematics. ECN- Economics. MGT-Management. MNS-Management Science. ENV-Environment. ENG-English. FRN-French. NCH-National Culture and Heritage. MKT-Marketing. ACN-Accounting. FIN-Finance. CMN-Communication.

COURSE SCHEDULES FOR AUTUMN 1993

Course Number	Title	Credit Hour	Section	Instructor
	BUSINESS ADMINISTRATION PROGRAMME			
ECN 201	Principles of Macrocconomics	3	2	
ECN 202	Principles of Microcconomics	3	2	
ECN 317	Global Economics and Political Issues	3	2	
MGT 201	Principles of Management	3	2	Dr. Dutt
MNS 202	Introduction to Management Science	3	2	Dr. Dutt
MKT 201	Principles of Marketing	3	1	Prof. Farouq
ACN 201	Principles of Accounting I	3	1	Mr. Rahman
FIN 201	Introduction to Finance	3	1	Mr. Rahman
	COMMUNICATION PROGRAMME			
CMN 201	Introduction to Communication	3	1	Dr. Ahaduzzaman
CMN 301	Development Communication	3	1	Dr. Ahaduzzaman
	Computer Science			
MAT 101	Basic University Mathematics	3	2	Dr. Anwer/ Dr. Shevchenko
MAT 201	Differential & Integral Calculus	4	1	Dr. Anwer (optional)
MAT 111	Introduction to Statistics	3	2	Dr. Islam
	ENVIRONMENTAL MANAGEMENT PROGRAMME			
ENV 101	Introduction to Environmental Science	3	2	Dr. Islam
ENV 201	Environmental Chemistry	3	2	Dr. Islam (optional)
ENV 203	Environmental Pollution and Waste Management	3	2	Dr. Henry J. Kahn

FOUNDATION PROGRAMME

CSC 101	Basic Computer Skills	3	2	Dr. Anwer
ENG 101	English Writing Skills	3	4	Mr. Islam/Ms. Rubina
ENG 102	English Oral Communication Skills	3	4	Mr. Islam/Ms. Rubina
FRN 101	Elementary French	3	1	Ms. Hilly Lawson/ Alliance Francaise
NCH 101	National Culture and Heritage	4	1	Prof. Ahmed
NCH 103	Western Civilization	3	1	Prof. Hossain
NCH 105	Music Appreciation	3	1	Dr. Mondal

BUSINESS ADMINISTRATION PROGRAMME

ECN 201 Principles of Macroeconomics (3 units, 2 sections)

Basic concepts of Economics. Overview of macroeconomics: concepts, tools and techniques. Economic Growth, Employment, Inflation and Business Cycles. Aggregate supply and demand. Measurement of national output and income. Theories of Consumption, investment and saving. Theory of output determination. Fiscal and Monetary Policies -- Taxation, Budget Deficit and National Debt. International Trade.

ECN 202 Principles of Microeconomics (3 units, 2 sections)

Basic concepts of Economics. Overview of macroeconomics: concepts, tools and techniques. Theories of demand and supply. Theories of consumer behavior. Theory of production. Analysis of costs. Product Markets -- perfect competition, monopolistic competition, oligopoly and monopoly. Income and inequality. Factors Market--pricing of factors of production. The labor market--Labor union and collective bargaining. Markets and economic efficiency. Externalities and role of government.

ECN 317 Global Economic and Political Issues (3 units, 1 section)

This course introduces the students to economic and political issues that determine the present and future of humankind. Besides familiarizing the students with constantly changing configurations of global economic and political transformation, it also addresses social and environmental issues that demand critical analysis for attaining sustainable progress for all. Emphasis is laid on issues like alleviation of poverty, global economic trend, population control, North-South resource transfer, regional economic blocs, multinational corporations, carbon emissions and destruction of rain forests. (Prior permission of instructor required).

MGT 201 Principles of Management (3 units, 2 sections)
- Dr. Dutt

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-- their functions and responsibilities.

MNS 202 Introduction to Management Science (3 units, 2 sections)
- Dr. Dutt

The design and application of scientific models for managerial decision making. Linear Programming, Decision Theory, utility, and other management science topics. Applications in the field of production, logistics, inventory policy, advertising, maintenance, financial decision, etc.

MKT 201 Principles of Marketing (3 units, 1 section)
- Prof. Farouq

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: Overview; 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: introduction. Service and nonprofit marketing. Social issues of marketing.

ACN 201 Principles of Accounting I (3 units, 1 section)
- Mr. Rahman

Accounting -- an information system --the double-entry system. The accounting cycle --Data processing: manual and electronic systems. 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 company formation and operation. Companies: financial reporting -cash flow statement--Analysis and interpretation of financial statement.

FIN 201 Introduction to Finance (3 units, 1 section)
- Mr. Rahman

Assessing the financial health of a company --profitability, liquidity and solvency. The investment decision--capital budgeting--DCF methods. Effects of depreciation, tax lag and interest payments in DCF analysis. Mutually exclusive projects --Capital rationing-inflation --The replacement chain. Valuation Theory--Taxation Policies. Leasing-- Share yield concepts--Reverse yield gap. Duration--Interest risk management--Portfolio theory--capital asset pricing model (CAPM) --Credit rating.

COMMUNICATION PROGRAMME

CMN 201 Introduction to Communication (3 units, 1 section) -
- Dr. Ahaduzzaman

Preliminaries to the study of communication--Analysis of communication-- Symbolic bases for communication-- Motivational bases for communication. Functions of communication. Psychology of influence-- communication and persuasion. Beginnings of attitude change research--further developments in attitude change research. Contexts of communication--Interpersonal communication-- Groups and organizations--Mass communication. Mass communication as social institutions. Sociology of the mass communication--sociology

of the audience. General Theories of communication -- General Systems Theory-- Symbolic Interactionism and rules theory. Thematic theories--Language and non-verbal coding--Information and information processing. Contextual theories--relationship, presentation and perception--disclosure, attraction and conflict--groups and organizations--mass communication. New communication technologies--adoption and implementation of communication technologies-- social impact of communication technologies.

CMN 301 Development Communication (3 units, 1 section)
- Dr. Ahaduzzaman

Development theories--Modernization theory --Dependence theory--New Institutionalists --Indigenous Economics. Social and Cultural obstacles and prerequisites to development--structural dependency and the analysis of modes of production. Differential responses to change--Sociological problems of planned social change. Paradigms on the role of communication in development--Daniel Lerner -- Wilbur Schramm. Reconsideration of the Western model -- Alternative pathways. Communication approaches to rural development--Group dynamics and interpersonal communication. Communication networks-- Convergence model of communication.

Computer Science

MAT 101 Basic University Mathematics (3 units, 2 sections)
- Dr. Anwer/Dr. Shevchenko

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 201 Differential and Integral Calculus (4 units, 1 section) - Dr. Anwer

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. (Prior permission of instructor required for registration).

MAT 111 Introduction to Statistics (3 units, 2 sections) - Dr. Islam

Frequency and graphs: nature of statistics, data-random and continuous data, events and occurrence, frequency of data, histograms. Mean, median, mode and other measures of central tendency. Standard deviation and other measures of dispersion. Moments, skewness and kurtosis. Elementary concepts of probability --its relationship with moments.

ENVIRONMENTAL MANAGEMENT PROGRAMME

ENV 101 Introduction to Environmental Science (3 units, 2 sections) - Dr. Islam

Definition of environment, Man and Nature, Pollution and Quality of Life; Basic fields of environmental study and research: Chemistry, Geography, Geology, Ecology, Agriculture, Forestry, Social Anthropology and Economics; Impact of culture, development and technology - Effect of technology on environment: Industrial pollution, agriculture and other project interventions, etc. - Applied sciences and technology for environmental regeneration and human welfare; demography, biotechnology, economic agriculture, forestry, biochemistry, hydrology, fisheries and urban/regional planning; Environmental consciousness; Environmental determinism, policy and programme intervention for the protection of environment; Environmental policies, plans and projects- Management of key resources of Bangladesh (including field study): Population, water and marine resource. Food resources (emphasis on the reduction of spoilage) and forestry resources.

ENV 201 Environmental Chemistry (3 units, 2 sections) - Dr. Islam

Basic principles governing the behavior and effects of toxic chemicals released into the environment. General chemistry of effluent parameters, chemical equilibrium and properties of solutions, Environmental monitoring, atmospheric pollution, ecological effects of chemicals, chemistry of atmosphere, SO2, CO, NO, O3, halocarbons, acid rain, metal particulate, pollution at ground level, water quality, smog, PAN, and asbestos. Fundamental chemistry laboratory experiments using basic chemical equipment and techniques including environmental aspects of chemistry (Monitoring equipments].

ENV 203 Environmental Pollution and Waste Management (3 units, 2 sections) - Dr. Henry J. Kahn

Sources of pollution. Effects of pollution on living system. Effluent Guidelines and Standards. Monitoring of Environmental Pollution, Conservation of material resources and energy through recycling. Treatment, utilization and disposal of sewage. Industrial Waste Treatment and Disposal. Environmental Pollution and its Control: case examples of different types of industries, air water and pesticides. Environment and corrosion. Mathematical Modelling for Environmental Pollution Control. Environmental management.

FOUNDATION PROGRAMME

CSC 101 Basic Computer Skills (3 units, 2 sections) - Dr. Anwer

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 units, 4 sections)
- Mr. Islam\Ms. Rubina

Course content: (a) Communication between people: Giving advice and opinions; giving instructions; requesting; complaining and apologizing; inviting formally and informally; describing spacial arrangements; describing movements and directions; describing processes. (b) 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. (c) Business communication: Job application; inquiries; claims and adjustments; notices and advertisements; notes and messages; sales letters; reports. (d) 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 credits, 4 sections) - Mr. Islam\Ms. Rubina

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 (3 units, 1 section)
- Alliance Francaise/Ms. Hilly Lawson

Alphabets, accents and their pronunciation. Definite and indefinite articles. Personal and indicative pronouns. Conjugation of 'être', 'avoir' and 'faire' in the present tense. Verbs ending with '-er', '-ir' and '-re' in the present tense. Interrogation, Imperative form. Simple adjectives. Passé composé of transitive and intransitive verbs.

NCH 101 National Culture and Heritage (4 units, 1 section)
- Prof. Ahmed

History of Ancient Bengal--Medieval Bengal--Bengal under the East India Company --Bangladesh during the Pakistan period--Emergence of Bangladesh. Anthropological explanation of early societies -- Brahmanical religion--Buddhism--Spread of Islam--Growth of Muslim Society--Sufism--Reform Movements--Education and Learning-- Hindu-Muslim Relations and Syncretism--Mysticism -- Western Influence--Women and Society.

NCH 103 Western Civilization (3 units, 1 section)
- Prof. Hossain

Meaning, growth and spread of civilization--the Ancient Near East--Mesopotamia--Egypt--the Hebrews-- the Hittites Canaanites--Philistine--Phoenicians--Crete--Mycenea. The Classical World --the Greeks --the Romans. The Medieval Age--Christianity --Barbarian invasions--Feudalism--Manorial System--Growth of towns and universities--Byzantine civilization and the formation of Russia. Early Culture in America--the Mayas--the Aztecs--the Incas. The Renaissance and the Reformation--Government and Societies in the age of absolutism--the Age of Explorations -- the formation of Latin America. The Scientific and Industrial Revolutions --Consolidation of Europe's global dominance. World War I -- the Bolshevik Revolution in Russia.

NCH 105 Music Appreciation (3 units, 1 section)
- Dr. Mondal

To provide students with the fundamental knowledge of different musical forms and their distinctive features; develop faculties for music appreciation with particular reference to the Indian classical music and make them aware of the musical excellence peculiar to Bengal.

1993-94 Calendar

Registration for the Autumn Semester (Fees and formalities)	3-7	October
Course registration	11-14	October
Classes begin	17	October
Course drop/add ends	28	October
Late admission closes	28	October
University Assembly 10-11 am	2nd & 4th	every Wednesdays
Visitors day (parents/guardians)	15	November
Mid term examinations	1-7	December
Long week-end	8-11	December
Classes resume	12	December
Registration for Spring 1994	12-15	December
Victory Day	16	December
Semester final examinations	17-24	January
Normal end of Semester	26	January
International evening (cultural programme)	27	January
Official end of Semester	30	January
Inter-term Live-in field experience	31 January to 13 March	
Course registration for the Spring term 1994	14-17	March
Classes begin	20	March
National Day	26	March
Course drop/add ends	29	March
Late admission closes	29	March
Normal end of Semester	14	July
Official end of Semester	17	July
Summer Session 1994 begins	1	August

1993

October

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	

November

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		
Thu	4	11	18	25		
Fri	5	12	19	26		

December

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	31	

1994

January

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		

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	

	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
	8:00	9:00	10:00	11:30	12:30	14:30	15:30	16:30	17:00
Sun									
Mon									
Tue									
Wed									
Thu									
Fri									
Sat									

Explanations

1. Double vertical lines indicate breaks
2. After 5 p.m. there are evening classes
3. Area marked in shadow are holidays - there may be excursions and field trips.