



College Campus

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Eastern Medical College

Comilla

Prospectus
2005-2006



Eastern Medical College

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Reception of inspection team of Ministry of Health in the College Campus 2004



Principal & Vice Principal with the inspection team in the College Conference Room 2004

Eastern Medical College Comilla



▲ Department of Bio-Chemistry



▲ Department of Physiology

▼ Library of EMC



▼ Department of Anatomy



MESSAGE FROM THE CHAIRMAN



The vast region of eastern zone starting from Habigonj district in the north and Laxmipur district in the south was devoid of any private medical college up to 2005. Medical Education and Health Welfare Foundation, Comilla is the only organization who applied first in the year 2003 to the government seeking permission to establish a private medical college and a modern 250 bed hospital attached to it. By the grace of almighty we have started the classes of 1st year

MBBS in Eastern Medical College from July' 2005. Our college campus is well decorated with Hospital & Faculty building of different departments having enough space which is free from public gathering representing a real medical academic environment.

A good number of medical teachers & best academic fitness are recruited who are presenting the challenging performances. In comparison with other medical colleges in this region we have got the best facilities in the library. Hostel facilities for both boys and girls are appreciable as they are guided by the teachers in the hostel also. Guardians are always informed about the progress of studies and residential behaviors of the student. The board of Foundations meet once in a month to look after the punctuality & sincerity of teachers & staffs. We have got up-to-date connection with ministry of Health & Family Welfare, DG Health, Chittagong University and BMDC. All the classrooms are well equipped with teaching materials, audiovisual & computer facilities. The college now possesses a team of highly qualified, experienced & devoted teachers who will produce medical graduates with high ethical values to serve the suffering humanity.

I wish to express my enormous gratitude to the Honorable Minister of Health & Family Welfare Dr. Khondaker Mosharref Hossain for his selfless contribution and advice in establishing this college & hospital.

I acknowledge Professor (Dr.) A.Z.M Zahid Hossain, Secretary General of BMA for his continuous advice in accomplishing this gigantic task.

I also wish to express my gratitude to Late Prof. H.R Ansary, Prof. Quamrul Huda, Prof. Md. Sharafat Ali, Dr. Musleh Uddin Ahmed, Dr. Md. A Quddus Akhand, Dr. Golam Samdani, Dr. Md. Kalim Ullah, Dr. Md. Shahab Uddin, Dr. Kamrun Naher, Dr. Md. Shamsuzzaman, Dr. Zamir Ahmed, Mr Jahangir Bhuiyan & Mr. Abdur Rouf for providing help in their areas of expertise.

I am sure if we continue our efforts, this college will be able to set an example to the health care system of the nation. May Allah help us.

Shah Md. Selim
Chairman

WE MOURN



1 March 1935 ~2 September 2005

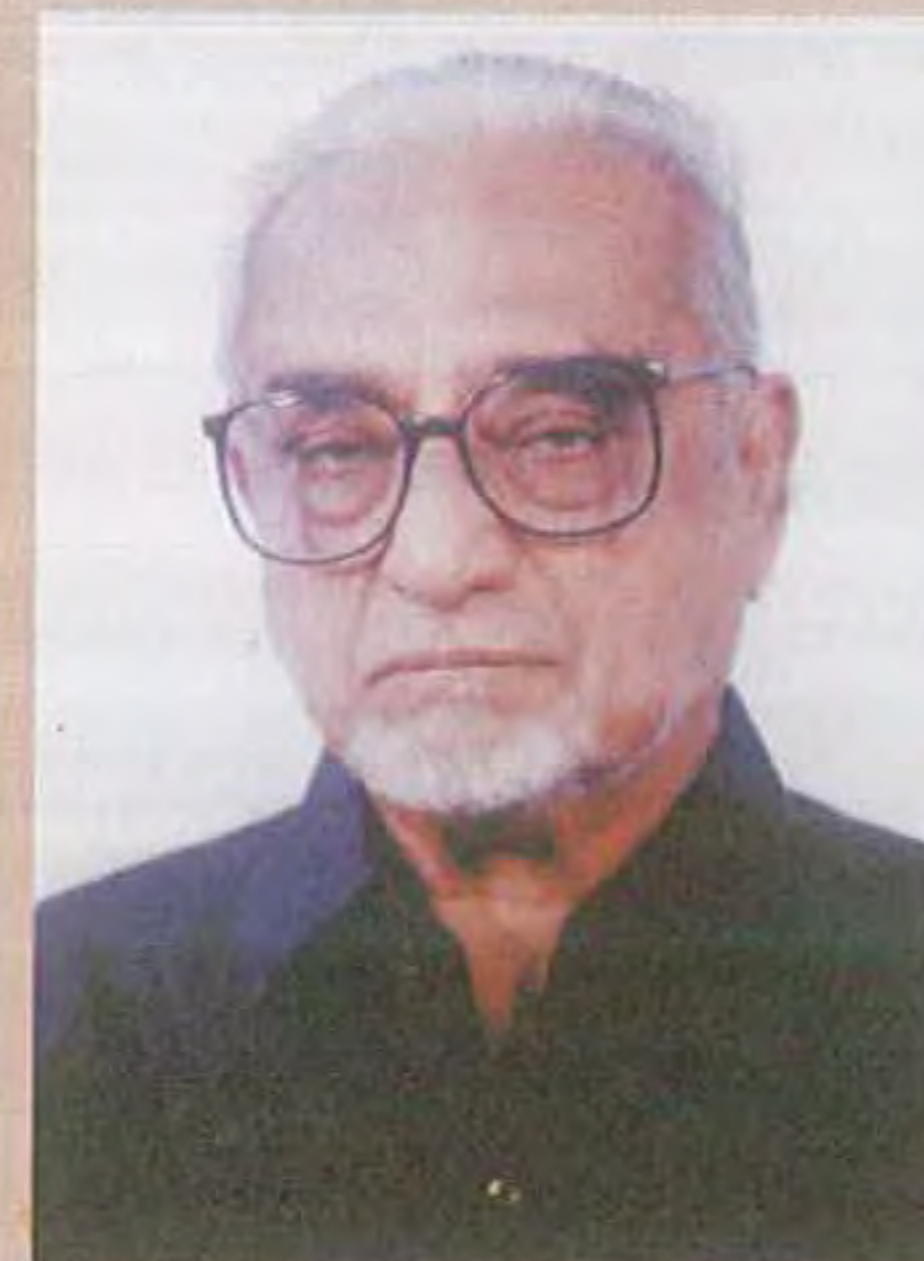
PROF. (DR.) HABIBUR RAHMAN ANSARY

MBBS(DMC),M.PHIL(KAR),FCPS(BD)
WHO & COMMONWEALTH FELLOW (ENGLAND).

FOUNDER PRINCIPAL OF
EASTERN MEDICAL COLLEGE, COMILLA



MESSAGE FROM THE PRINCIPAL



To serve the humanity is to serve the almighty. It is very much essential that the basic health care facilities are brought to the door steps of sufferings millions. But it is difficult to achieve this goal with the current ratio of doctors to population of about 1:4500. This proportion should be reduced to 1:500. Only 2000 doctors are graduating yearly from government & private medical colleges. To correct this doctors to population ratio the yearly output should be increased two to three folds. This can only be achieved

by establishing more medical colleges both in public & private sectors. Medical Education & Health Welfare Foundation, Comilla decided to establish Eastern Medical College in this eastern region of greater Comilla & Noakhali with the sole aim of promoting health and low cost treatment facilities for general upliftment of the society.

Eastern Medical College is a non-profitable service oriented academic institution which is housed in a multistoried building having adequate accommodations for lecture, tutorial & practical classes of various subjects. All the departments are well equipped with teaching materials and highly qualified, experienced teachers. It has a standard conference room and a library with rich collection.

I wish to congratulate you who have decided to pursue your studies in medical science. I am sure, those who would be able to study in Eastern Medical College will enter one of the finest Medical College in the country which is committed to impart the best possible professional knowledge. I would like to assure the students who want to get themselves admitted to this college that we shall make every endeavors to provide quality education so that they can become an asset to the nation. Eastern Medical College has facilities to train its students in both rural and urban environments due to which students will be expert in dealing with health problems of both categories.

Finally I express my gratitude to the chairman and founder member of this institution for their persistent support in the development of this college & would also like to express my best wishes to the people of this locality.

PROF. Syed Sharafat Ali
MBBS; D.PH; Fellow WHO



MESSAGE FROM THE VICE PRINCIPAL

May Allah bless all of you who have decided to tread the path of medical education.

I am glad to inform you that Eastern medical college is forging ahead with confident steps towards a bright future. I invite you all to join us in this exiting journey.

Obviously the process of training oneself to graduate as a doctor is very hard and strenuous. Here there is no alternative to discipline and hard work. One should be very single minded, with a lot of effort and perseverance, in order to graduate as a competent, compassionate and a complete doctor. We in EMC aim to help you realize this dream of yours.

EMC is a friendly, lively, dynamic and humane place in which to be a student. Hostel environment of EMC is what one would term as "Home away from home". We at EMC are always there for you, at any time of the day or night to parent you, guide you, help you to mould yourself into that perfect human being who is capable of dedicating himself to the service of mankind. Our dedicated, experienced and highly qualified batch of teachers have vowed to make EMC a role model of medical institute in Bangladesh. I express my appreciation and thank all the founder members of this institution for their commitment towards the achievement of this common goal.

Dr. Golam Samdani
M.D.; M.S.; Ph.D
Associate Professor (Surgery)

FOUNDER MEMBERS OF EASTERN MEDICAL COLLEGE

- | | |
|----|--|
| 01 | Shah Md. Selim
S/O. Late Md. Sujat Ali
"Shah Dip". 332 Jurpukurpar, Thakurpara, Comilla. |
| 02 | Dr. Rocksana Begum
W/O. Dr. Musleh Uddin Ahmed
70/59 Ka, Nazrul Avenue, Kandirpar, Comilla. |
| 03 | Dr. Md. Abdul Quddus Akhand
Managing Director
Mukti Hospital, Race Course, Comilla. |
| 04 | Mrs, Syeda Tamanna Begum
W/O. Dr. Md. Kalim Ullah
148, Nazrul Avenue, Bagichagaon, Comilla-3500 |
| 05 | Dr. Kamrun Naher
W/O. Late Dr. Zakir Hossain Bhuiyan
"Shashata", 939 Jhawtala, Comilla. |
| 06 | Janab Md. Jahangir Bhuiyan
S/O. Late Abu Md. Julfiqur Haider Bhuiyan
Vill. Kaikhala, P.S. Qusba, Dist. B-Baria. |
| 07 | Mrs. Sabiha
W/O. Dr. Md. Shahab Uddin "Mohananda". Flat.#2-B, House#-39
Road # 11 (New), Dhanmondi R/A, Dhaka-1212. |
| 08 | Dr. Farzana Samdani alias Mrunalini Sharma
W/O. Dr. Golam Samdani
"Sharma Maternity Care". Madina Masjid Road. 2nd Kandirpar, Comilla.3500. |
| 09 | Dr. Md. Shamsuzzaman
S/O. Mamtaz Uddin Ahmed
"Nittyadham", Thakurpara, Comilla. |
| 10 | Abdur Rouf
Wet Street 49
2060, Antwerpen, Belgium. |
| 11 | Dr. Zamir Ahmed
232, Railway Hawkers Market, Muktijoddha Sarak, Chandpur
Ph: 60841, 63414, Mob: 0172-022626 |

5 Years MBBS COURSE

Academic Course

Eastern Medical College offers 5 years MBBS course as approved by the Bangladesh Medical & Dental Council, leading to MBBS degree of the University of Chittagong and one year's internship training at its attached Hospital. The academic session shall be from July to June each year. The goal of the college is to provide an excellent broad based education with a focus on professional development for the students to equip them with knowledge, skill and attitude necessary not only to address the priority health problems of the community but also to acquire a firm basis for future training and studies.

The college is committed to ensure high academic standard by implementing a well designed curriculum, utilizing modern and effective instructional methods and aids including information technology, providing the right environment for faculty development and by continuously monitoring and rigorously evaluating all the activities and systems.

Organization of 5 years' MBBS Course

0.....1½ yr		
1st Term	2nd Term	3rd Term
<ul style="list-style-type: none"> Anatomy Physiology Biochemistry Community Medicine 		First Professional MBBS Exam

1½ yr 3½ yr			
4th Term	5th Term	6th Term	7th Term
<ul style="list-style-type: none"> Community Medicine Pharmacology Pathology Microbiology Forensic Medicine 		Second Professional MBBS Exam	

1½ Yr 2½ Yr 3½ Yr 5Yr				
		8th Term	9th Term	10th Term
<ul style="list-style-type: none"> Medicine : Pediatric & other medical specialities Surgery : Ophthalmology & Otolaryngology & Surgical specialities Obstetrics and Gynecology 		Final Professional MBBS Exam		

During the five years MBBS course, the University of Chittagong will conduct three professional examinations namely i) The First Professional MBBS Examination at the end of 1½ years ii) The Second Professional MBBS Examination at the end of 3½ years and iii) The final Professional MBBS Examination at the end of 5 years. There will be two Professional examinations in the first week of January and July each year.

5 Years MBBS COURSE

GOALS

Medicine is a science with human understanding and warmth; and embraces man, his environment and society. The practice of medicine involves the care of men and women through successive stages of their lives from conception to death as individuals; in families and in society at home and at work; in health and in mental and physical illness of infinite variety and origin. The delivery of appropriate care in these various situations and the multiplicity of clinical specialities which have developed for the purpose, demand that basic graduate education in Medicine which should be of sufficiently high standard in order to enable graduates not only to address priority health concerns of the community but also to acquire a firm basis for future training and studies.

The process of graduate education in Medicine involves the study of many different subjects, but the practice of medicine involves more than mastery of those subjects. It requires the development of certain attitudes and skills and the ability to synthesize and apply them. He must learn to work as part of a Health Team and to function effectively in the society in which he finds himself.

OBJECTIVES

At the end of the Course students shall:

1. **Acquire knowledge and understanding of** a) the sciences upon which Medicine depends and the scientific and experimental methods; b) the structure, function and normal growth and development of the human body and the workings of the mind and their interaction, the factors which may disturb these, and the disorders of structure and function which may result; c) The etiology, natural history and prognosis of the common mental and physical ailments. Students must have experience of emergencies and a good knowledge of the common diseases of the community and of ageing processes; d) normal pregnancy and childbirth, the commoner obstetric emergencies, the principles to anti-natal and post natal care, and medical aspects of family planning and psycho-sexual counseling; e) the principles of prevention and therapy, including health education, the amelioration of suffering and disability, rehabilitation, the maintenance of health in the old and aged and the care of the dying. f) human relationship, both personal and communal, and the interaction between man and his physical biology and social environment; g) the organization and provision of health care in the community and in hospital; the identification of the need for it, and the economic, ethical and practical constraints within which it operates; and h) the ethical standards and legal responsibilities of the medical profession.

2. **Develop the professional skills necessary to:**

a) elicit, record and interpret the relevant medical history, symptoms and physical signs, and to identify the problems and how these may be managed; b) carry out simple practical clinical procedures; c) deal with common medical emergencies; d) communicate effectively and sensitively with patients and their relatives; e) communicate clinical informations accurately and concisely, both by word of mouth and in writing, to medical colleagues and to other professionals involved in the care of the patient; and f) use laboratory and other diagnostic and therapeutic services effectively and economically, and in the best interests of this patients;

5 Years MBBS COURSE

3. Develop appropriate attitudes to the practice of medicine, which include:

- recognition that a blend of scientific and humanitarian approaches is needed in medicine;
- a capacity for self education, so that he may continue to develop and extend his knowledge and skills throughout his professional life, and recognize his obligation to contribute if he can to the progress of medicine and to new knowledge;
- the ability to assess the reliability of evidence and the relevance of scientific knowledge, to reach conclusion by logical deduction or by experiment, and to evaluate critically methods and standards of medical practice;
- a continuing concern for the interests and dignity of his patients;
- an ability to appreciate the limitations of his own knowledge, combined with a willingness, when necessary, to seek further help;
- the achievement of good working relationships with members of others health care professions.

COURSE EVALUATIONS

a) IN-COURSE EXAMINATIONS: Students are expected to maintain a consistently high standard in their academic work. In-course evaluations will be made through regular periodic class test, quizzes, assignments and mid/ end term examinations conducted by individual departments. The mid/end term tests shall include written (Combinations of MCQS, Short questions & Essays), orals practical/clinical including OSPES and OSCES. The results shall be recorded in students progress Report Cards / log Book. 10% marks of written paper of each subject in the University Professional Examinations will be derived from scores obtained in In-Course evaluations.

No students shall be allowed to sit for Professional MBBS Examinations of the University, unless he/she attends a minimum of 75% of classes held, secures at least 60% marks in class assignments & periodic in-course examinations and demonstrates satisfactory attitude, behavior and conduct.

b) END-COURSE EXAMINATIONS: The University of Chittagong shall conduct three Professional Examinations for 5 years' MBBS Course as follows. There will be two Professional Examination in the first week of January and July each year. Pass mark will be 60% in each of written, oral and practical / clinical examinations separately.

Examination & Timing	Subject of Examination	Marks						
		Examination Marks	Formative Assessment	Written	Oral	Practical	Clinical	Total
1st Professional MBBS Examination (At the end of 1 1/2 years of the Course)								
	Anatomy	20	180	150	150	-	500	
	Physiology	20	180	100	100	-	400	
	Biochemistry	20	180	100	100	-	400	
Total							1300	
2nd Professional MBBS Examination (At the end of 3 1/2 years of the Course)	Pharmacology	10	90	100	100	-	300	
	Forensic Medicine	10	90	100	100	-	300	
	Pathology	10	90	100	100	-	300	
	Microbiology	10	90	100	100	-	300	
	Community Medicine	10	90	100	100	-	300	
Total							1500	

5 Years MBBS COURSE

Final Professional MBBS Examination (At the end of 5 years of the Course)	Medicine	20	180	100	100	100	500
	Surgery	20	180	100	100	100	500
	Gynecology & Obstetrics	20	180	150	100	50	500
Total							1500

INTERNSHIP TRAINING:

All students passing the Final Professional Examination shall be required to undergo one year compulsory internship training as prescribed by BMDC at attached hospital.

The training is designed specifically to develop the necessary skills & attitudes to deal with common health problems, to work in hospital and in community; this training will be fully structured and rigorously supervised. The trainees will be entitled to appropriate subsistence allowance/ honorarium.

The Internship training is compulsory and a prerequisite for obtaining registration with Bangladesh Medical & Dental Council.

FIRST PROFESSIONAL MBBS COURSE: JULY 2006 - DECEMBER 2007

First Professional MBBS Course will be offered during the first years (July 2006-December 2007) of 5 years' MBBS Course. It is divided into 3 Terms, each of 6 months duration. The Departments of Anatomy (650 hrs), Biochemistry (270 hrs), Physiology (380 hrs) and Community Medicine (70 hrs) provide a total of 1370 hours of instructions, which include lectures, Dissections, Practical, Demonstrations and Tutorials.

ORGANIZATION OF THE COURSE

First Term July-December 2006	Second Term January-June 2007	Third Term July-December 2007
Anatomy General anatomy Cell Biology and Histology General Developmental Anatomy Gross Anatomy * Thorax * Superior Extremity	Anatomy General anatomy Systemic Histology General Developmental Anatomy Human Genetics Gross Anatomy; • Abdomen • Inferior Extremity	Anatomy Systemic Histology Systemic Developmental Anatomy Neuroanatomy Gross Anatomy; • Head & Neck • CNS & Eye Ball
Physiology General Physiology Blood Cardiovascular Physiology	Physiology Respiratory Physiology Renal Physiology & Body Fluid Alimentary System	Physiology Endocrine & Reproductive System Nervous System Special Senses
Biochemistry Biophysics & Biomolecular Digestion & Absorption, Food, Nutrition & Vitamins	Biochemistry Bioenergetics & Metabolism Body Fluid, Electrolytes & Acid-Base balance	Biochemistry Clinical Biochemistry Clinical Endocrinology Molecular Biology & Genetics
Community Medicine Introduction to Community Medicine Bio-statistics	Community Medicine Behavioral Science Health Education National & International Health	
End Term Examination	End Term Examination	End Term Examination
EVALUATION OF THE COURSE		
The University of Chittagong conducts the First Professional MBBS Examination at the end of 1 1/2 years course in January 2008.		

DEPARTMENT OF ANATOMY

FACULTY

ASSOCIATE PROFESSOR

1. Dr. Aftab Uddin Ahmed
MBBS, M.Phil (Anatomy)

ASSISTANT PROFESSOR

2. Dr. Md. Abdur Rashid
MBBS, M.Phil (Anatomy)

LECTURERS

3. Dr. Md. Khaza Ahamed, MBBS
4. Dr. Syed Didarul Islam, MBBS
5. Dr. Md. Kamal Uddin, MBBS
6. Dr. Prabal Dutta Adhikary, MBBS
7. Dr. Md. Moazzem Hossain, MBBS

COURSE OFFERED

Department of Anatomy offers 650 hours' Course during the first three terms (1 $\frac{1}{2}$ years) of MBBS Course.

COURSE DESCRIPTION

Anatomy deals with the study of structures of body. Human anatomy exposes the structures of the body and pursues their related disposition by dissection. **Surface Anatomy and Radiological Anatomy** with improved imaging techniques (X-ray, Ultrasonography, CT Scan, MRI etc.) apply the knowledge from dissection of dead bodies to the living individuals, which has become important for clinical studies. **Embryology & Genetics** depicts the intra uterine development of human embryos and fetuses. It attempts to explore factors responsible for growth and differentiation of tissues and organs and occasional malformations. Histology deals with normal ultra structure of organs and correlates the structure with function and are compared with the pathological status for the differentiation between the normal and abnormal. **Neuroanatomy** deals with organization of nervous system and their physiological functions. **Clinical Anatomy** emphasizes on the application of anatomical knowledge in clinical practice for helping clinicians for reaching correct diagnosis and apply remedial measures.

COURSE OBJECTIVES

At the end of the course in Anatomy, the students shall be able to :
equip themselves with adequate knowledge for understanding the structural components of the body responsible for carrying out normal body functions.
Use the above knowledge to understand and appreciate the other subjects taught in the pre-clinical, para-clinical and clinical courses.
Use the knowledge of Anatomy to understand the basis of common clinical conditions and carry out basic research on various fields of Anatomy.

COURSE ORGANIZATION & ACADEMIC CALENDER

Class/ Exam	Hours including class exams (hrs)	First Term July-December 2006	Second Term January-June 2007	Third Term July-December 2007	First Professional MBBS Examination, January 2008
Lecture and Review	120	• General Anatomy - 11 hrs • Cell Biology-06 hrs • General Histology - 16 hrs • General Developmental Anatomy - 14 hrs.	• General Anatomy - 10 hrs • Systemic Histology-08 hrs • General Developmental Anatomy-02 hrs • Systemic Developmental Anatomy - 10 hrs • Human Genetics - 06 hrs	• General Anatomy - 10 hrs • Systemic Histology -06 hrs • Systemic Developmental Anatomy - 10 hrs • Neuroanatomy - 20 hrs	
Demonstration	60	Thorax Card - 08 hrs Sup. Ext. Card - 08 hrs	Abdomen Card - 16 hrs Inf. Ext. Card - 08 hrs	Head and neck Card - 12 hrs C.N.S & Eyeball - 08 hrs	
Tutorial/Review	60	Thorax Card - 10 hrs Sup. Ext. Card - 10 hrs	Abdomen Card - 16 hrs Inf. Ext. Card - 08 hrs	Head and neck Card - 10 hrs C.N.S & Eyeball - 6 hrs	
Dissection	290	Thorax Card - 30 hrs Sup. Ext. Card - 34 hrs	Abdomen Card - 86 hrs Inf. Ext. Card - 34 hrs	Head and neck Card - 76 hrs C.N.S & Eyeball - 30 hrs	
Card Completion Exam.	60	Thorax Card - 10 hrs Sup. Ext. Card - 10 hrs	Abdomen Card - 10 Inf. Ext. Card - 10 hrs	Head and neck Card - 10 hrs C.N.S & Eyeball - 10 hrs	
Cell Biology & Histology tutorial/ Practical	60	Card I - 20 hrs	Card II - 20 hrs	Card III - 20 hrs	
Grand Total	650				

ASSESSMENT IN ANATOMY

FIRST PROFESSIONAL MBBS EXAMINATION, JANUARY 2008.

Component		Marks	Total Marks
Formative assessment (based on percentage of attendance and in course assessment)		10+10	20
WRITTEN EXAMINATION	Paper - I: MCQ	20	180
	SAQ	70	
	Paper - II: MCQ	20	
	SAQ	70	
ORAL EXAMINATION (Structured)	Hard part	75	150
	Soft part	75	
PRACTICAL EXAMINATION			
Soft part	Objective structured practical Exam (OSPE) including Spotting exam Dissection Anatomy of Radiology and Imagine	30	75
		30	
		15	
Hard part	OSPE including Spotting exam Lucky slides Living Anatomy Practical khata	30	75
		20	
		20	
		05	
Grand Total			500

DEPARTMENT OF PHYSIOLOGY

FACULTY

VISITING PROFESSOR

1. Professor Farida Adib Khanom
MBBS, M.Phil (Physiology), Fellow WHO

ASSOCIATE PROFESSOR

2. Dr. Afreen Munim
M.Sc, Ph.D (Japan)

ASSISTANT PROFESSOR

3. Dr. Sultana Rokeya Mannan
M.Phil (Physiology)

LECTURERS

4. Dr. Md. Anwar Hossain, MBBS
5. Dr. Md. Zahirul Hoque, MBBS
6. Dr. Md. Oliur Rahman, MBBS
7. Dr. Pritimoy Das, MBBS

COURSE OFFERED

Department of Physiology offers 380 hours' Course during first three terms (1 year) of MBBS course.

COURSE DESCRIPTION

Physiology is the Science of normal functions and phenomena of living things. The attributes of life are growth, reproduction, repair and adaptation to varied conditions. The most important characteristics of living beings is that their processes are controlled. Much of physiology is the study of control systems that operate in living beings. The goal of physiology, therefore is to explain the physical and chemical factors that are responsible for the origin, development and progression of life. The course highlights the relevance of basic physiology to clinical practice through use of clinical examples.

COURSE OBJECTIVES

- At the end of the course in Physiology, students will be able to :
 - Understand the normal functions of human body and utilize them as background for clinical studies.
 - Explain reactions to environment and homeostatic mechanisms.
 - Interpret normal function with a view to differentiate from abnormal function.
 - Demonstrate knowledge and skill to proceed to higher studies and research in physiology in relation to needs and disease profile of the country.
 - Perform and interpret physiology laboratory tests and procedures.

COURSE ORGANIZATION & ACADEMIC CALENDER

Class/ Exam	Hours	First Term July-December 2006	Second Term January-June 2007	Third Term July-December 2007	First Professional MBBS Examination, January 2008
Courses	120	• General Physiology (A) • Blood (B) • Cardiovascular Physiology (c)	• Respiratory Physiology (A) • Renal Physiology & Body fluids (B) • Alimentary system (c)	• Endocrinology & Reproduction (A) • Nervous system & Temp regulation (B) • Special senses (C)	
Lectures	120	A. 05 hrs B. 15 hrs C. 18 hrs	A. 12 hrs B. 12 hrs C. 10 hrs	A. 20 hrs B. 20 hrs C. 08 hrs	
Tutorials	120	A. 05 hrs B. 15 hrs C. 18 hrs	A. 12 hrs B. 12 hrs C. 10 hrs	A. 20 hrs B. 20 hrs C. 08 hrs	
Practicals	120	A. 10 hrs B. 40 hrs C. 28 hrs	A. 10 hrs B. 06 hrs C. 04 hrs	A. 04 hrs B. 12 hrs C. 06 hrs	
Integrated Teaching	20	A. 02 hrs B. 04 hrs C. 02 hrs	A. 02 hrs B. 02 hrs C. 02 hrs	A. 02 hrs B. 02 hrs C. 02 hrs	
Card completion Examination		Card-1: General Physiology & Blood Card: 2 Cardiovascular Physiology Practical Card: 1-2	Card 3: Respiratory Physiology Card 4: Renal Physiology Card 5: Alimentary system Practical Card : 3-5	Card-6: Endocrinology & Reproduction Card-7: Nervous system & Temp regulation Special senses Practical Card: 6-7	
Grand Total	380				

ASSESSMENT IN PHYSIOLOGY

Summative Assessment (First Professional Examination, January 2008)

Components	Marks	Total Marks	
Formative assessment	10+10	20	
WRITTEN EXAMINATION			180
Paper - I: MCQ	20		Paper-I 1. General Physiology 2. Blood 3. Cardiovascular 4. Respiratory System 5. Alimentary System
SAQ	70		
Paper - II: MCQ	20		Paper-II 1. Renal Physiology & Body fluid 2. Endocrine & Reproductive 3. Nervous System & Temp Regulation 4. Special Senses
SAQ	70		

DEPARTMENT OF BIOCHEMISTRY

FACULTY

ASSOCIATE PROFESSOR

1. Dr. Sultana Parveen
MBBS, M. Phil (Biochemistry)

ASSISTANT PROFESSOR

2. Dr. Roksana Yeasmin
MBBS, M.Phil (Biochemistry)

SENIOR LECTURER

3. Dr. Md. Ashraf-Uz-Zaman
MBBS, M.D.(Biochemistry)(Final Part)

LECTURERS

4. Dr. Md. Rashedul Islam, MBBS

5. Dr. Md. Golzar Hossain, MBBS

6. Dr. Naoshad Khan, MBBS

7. Dr. Sadia Tabassum, MBBS

COURSE OFFERED

Department of Biochemistry offers 270 hours' course during the first three terms (1 years) of MBBS Course.

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COURSE DESCRIPTION

Biochemistry deals with the chemical language of life and living processes. The scope of biochemistry is as vast as life itself. Every aspect of life- birth, growth, reproduction, aging and death involves biochemistry. Every moment of life is packed with hundreds of bio-chemical reactions. Advances in biochemistry have tremendous impact on understanding of health and diseases in humans. Applications of the knowledge of biochemistry in the laboratory for the diagnosis of diseases; in the manufacture of products (like insulin, growth hormone, interferon etc) from genetic engineering; and in the possible use of gene therapy have tremendously benefited mankind and their living styles. The course emphasizes the basic and applied aspects of biochemistry as it relates to clinical medicine.

COURSE OBJECTIVES

At the end of the course in Biochemistry the students should be able to :

- Demonstrate basic knowledge on major biomolecular enzymes, hormones and nutrients and of fundamental chemical principles involved in body mechanism upon which life process depends.
- Demonstrate skills in performing and interpreting biochemistry laboratory tests and procedures with emphasis on those used in Bangladesh.
- Demonstrate skills in using the modern biochemical appliances.
- Equip themselves with requisite knowledge for higher studies and research.
- Develop sound attitude towards the need for continuing self education.

COURSE ORGANIZATION & ACADEMIC CALENDER

First Term July - December 2006				
Biophysics and Biomolecular	18 hrs	16 hrs	15 hrs	0 hrs
Digestion & Absorption, Food & Nutrition	14 hrs	15 hrs	10 hrs	2 hrs
Total	32 hrs	31 hrs	25 hrs	2 hrs

Second Term January - June 2007				
Bioenergetics & Metabolism	28 hrs	25 hrs	10 hrs	2 hrs
Clinical Endocrinology	10 hrs	10 hrs	00 hrs	2 hrs
Total	38 hrs	35 hrs	10 hrs	4 hrs

Third Term July - December 2007				
Molecular Biology and Genetics	10 hrs	10 hrs	00 hrs	00 hrs
Clinical Biochemistry	10 hrs	10 hrs	25 hrs	02 hrs
Renal Biochemistry, Acid base balance, electrolyte balance	10 hrs	14 hrs	00 hrs	02 hrs
Total	30 hrs	34 hrs	25 hrs	04 hrs

EVALUATION OF BIOCHEMISTRY

Summative Assessment (First Professional Examination, January 2008)

Components	Marks	Total Marks
Formative assessment	10+10	20
WRITTEN EXAMINATION		180
Paper - I: MCQ	20	
SAQ	70	
Paper - II: MCQ	20	
SAQ	70	
PRACTICAL EXAMINATION		100
OSPE	50	
Traditional methods	40	
Practical Note Book	10	
ORAL EXAMINATION (Structured)		100
Grand Total		400

DEPARTMENT OF COMMUNITY MEDICINE

FACULTY

PROFESSOR

1. Professor Syed Sharafat Ali
MBBS, DPH, Fellow WHO

ASSISTANT PROFESSOR

2. Dr. Uttam Kumar Ghosh
MBBS, DTM&H (Bangkok), MCTM (Bangkok)
3. Dr. Mosleh Uddin Ahmed
MBBS, MPH.

LECTURERS

4. Dr. Rafiq Uddin Ahmed, MBBS
5. Dr. Md. Habibur Rahman, MBBS
6. Dr. Pradip Kumar Nath, MBBS

COURSE OFFERED

Study of Community Medicine will start from 1st Term and extend over six terms of six months each (3 years). In the first three terms (First Professional MBBS Course) Department of Community Medicine will offer 70 hours' introductory course on concepts of Community Medicine, Behavioral Sciences and Biostatistics, which will be followed by comprehensive Community Medicine during 2nd Professional MBBS Course (Term1-4).

COURSE DESCRIPTION

Community Medicine is about a system of delivery of comprehensive health care (preventive, promotive, curative & rehabilitative) to the people by a health team in order to improve the health of the community. It deals with population or groups rather than individual patients. It is concerned with identification and assessment of health needs of the people, health problems affecting them and to devise appropriate measures (planning, organization, delivery and evaluation of health care services) to meet these requirements as best as possible with the available resources. Community Medicine is thus a bridge between public health and clinical medicine. Successful implementation of a Community health program under the leadership of a doctor depends on the mutual co-operation among all grades of health personnels, social workers, community leaders connected with the program and the common team spirit exhibited by them.

Doctors should be prepared to build up an effective partnership for health. It has now been realized that medical education should include knowledge about behavioral science, for such knowledge will enable medical students to appreciate human behavior better and to understand how different cultures construct health & illness. This will prepare doctors to deal more effectively the diseases and human sufferings.

ORGANIZATION OF 70 hrs' COMMUNITY MEDICINE COURSE

DURING FIRST PROFESSIONAL MBBS COURSE (Term 1-3)

First Term July - December 2006	Second Term January - June 2007	Third Term July - December 2007
Community Medicine • Introduction to Community Medicine Lecture: 6 hours Tutorial: 6 hours • Bio-statistics Lecture: 8 hours Tutorial: 8 hrs	Community Medicine • Behavioral Science: Lecture: 6 hours Tutorial: 14 hours • Health Education: Lecture: 4 hours Tutorial: 8 hrs	
Total : 28 hours	Total : 42 hours	
End Term Examination	End Term Examination	1st Prof. Exam - Jan'08

The important feature of the EMC

1. Courses Offered : MBBS (University of Chittagong)
2. Curriculum : Curriculum approved by Bangladesh Medical & Dental Council and adopted by the faculty of medicine, University of Chittagong.
3. Academic Year : July to June
4. Class Hour : 10.00 am to 5:00 pm.
5. Lecture Hall : There are 2 lecture halls in the college with audio visual equipment and adequate laboratory facilities in all departments.
6. Library : It has a modern library with medical books having arrangement for teachers and students. The library of EMC has internet access facility. It is registered with Health InterNetwork Access to Research Initiative through World Health Organization. Through this initiative Teachers & students of Eastern Medical College, Comilla have online access to one of the world's largest collection of latest medical journals & literatures (more than 3000) offered by leading biomedical publishers.
7. College Discipline grounds : Students must observe strict discipline in the college. On disciplinary ground, following penalties may be imposed which will be recorded in the students' transcript testimonial.
 - A warning letter to the students for the offence.
 - Fines (Amount to be decided depending on the gravity of the offence).
 - Expulsion from the College (Temporarily or permanently depending on the gravity of offence).
8. College Administration : Principal is the Executive Head of the College. He is advised by the Academic Council in academic matters.
9. College Finance : The College is run on self-financing and non-profit basis. Deficits on capital development if any will be met up by ME&HWF, Comilla.
10. Teachers Guardian Meeting : Academic Council and Guardian will meet at least once in one year. They discuss all aspects of academic matters of the college and suggest measures for improving the academic environment and total improvement of teaching in the college.

11. Admission procedure

- : Notice for admission of students into first year class is advertised in the leading Daily News paper. Selection is made on merit basis through competitive examination. The Government approved admission criteria and marks calculation will be followed.
- : Application for admission must be made in the prescribed Admission Form attached to the prospectus, obtainable from the office of the Principle on payment of non-refundable fee of Taka 700/- only.
- : Completed application in prescribed form should be submitted to the office of the Principle of Eastern Medical College by the date and time mentioned in the News Paper advertisement.
- : The following documents are required to be submitted along with the application for admission.
 - S.S.C Examination Certificate or its equivalent Certificate.
 - Certificate from the Head of the Institution in which the applicant studied last regarding his/ her character and extra curricular activities.
 - Certificate of character from a class I Gazetted officer.
 - Certificate of character by appropriate authority.
 - 4 (four) copies of recent passport size photographs. One of these photograph will be returned to the candidate with signature and seal of the authorized officer for use as identity card to be produced when necessary.
 - Acknowledgement slip showing the payment of registration fees for application of admission in the first year MBBS class.
 - Original copies of the above documents are to be produced at the time of interview and admission.

12. Medical Fitness

- : After qualifying in the written examination the students shall have to appear before the Medical Board for medical examination. The candidates shall be considered selected for admission into Eastern Medical College only if found medically fit by the Medical Board.

Instruction for the students

1. All students are to attend classes in clean well-dressed white Apron.
2. All students are to carry their "Identity Cards" while they are in the college.
3. Rings, bangles are discouraged as they cause impediments to practical work.
4. Fashionable dresses, untidy hair, slippers are discouraged in the college campus.
5. Environments to be kept clean. Students should throw litters into waste paper basket.
6. Pasting of posters on the walls of the college and the hospital buildings and or hanging of posters in the college and in the hospital premises are prohibited unless permitted by authority. These are considered as acts of indiscipline and offenders are liable to punishment.
7. Smoking is forbidden in the college campus.
8. All types of demonstrations, processions, shouting in the college and hospital premises are prohibited and students involved are liable to be expelled from the college.
9. Abstentions from classes individually or in group or in a mass without prior information/ without valid reasons are punishable by imposition of daily fine of Tk. 500/- individually. Guardians will be informed of such acts.
10. Students will state their problems/ grievances/ inconveniences to their Teacher Guide. The Guide will solve the problems of the student's himself/herself or refer them to the principal. Statement of the problems/ grievances/ grievances/inconveniences by the students must be in an orderly and disciplined manner. Any act of indiscipline on the part of any student including usage of abusive words or objectionable words and sentences, will make the students liable to be punished by expulsion from the college.
11. Student must not misbehave with the staff or employees of the college or the hospital. Acts of misbehavior are also acts of indiscipline and liable to punishment.
12. The students are expected to maintain the highest standard in their academic activities. Smoking or any sort of addiction is strictly prohibited in the campus.
13. **Bond** : At the time of admission into the college the students and parents/guardians will have to sign a bond that their children/wards will abide by the rules and regulations of the college.
14. Every student shall provide for himself/herself/ all the prescribed Textbooks, dissection instruments, medical equipments etc. The college will not supply these to the students.
15. In case of illness or other unavoidable reasons for non-attendance, a written statement from the parent/guardian is to be presented to the teachers concerned, who in turn will submit it to the Principle for approval.
16. Cost of loss, damage to college/hospital property is liable to be realized from the student found responsible for the loss, damage.
17. Political activities are strictly prohibited in the college.
18. Students are allowed to use the library. They will seat and read. Books will be issued to the students only for reading in the library. Home issue for the students is not permitted.
19. All students who have successfully qualified their MBBS degree are to undergo one year Internship Training (Hospital training) as per rules and regulations of BMDC (Bangladesh Medical and Dental Council).

College Fee

1. Development Fee	:	Tk. 3,50,000.00
2. Admission Fee	:	Tk. 17,200.00
3. Session Fee (2005-2006)	:	Tk. 25,000.00
4. Tuition Fee	:	Tk. 2,000.00
5. Others Fee		
a) Affiliation Fee	:	Tk. 2,000.00
b) University Registration Fee (Determined by University of Chittagong)	:	Tk. 2000.00
c) BMDC Registration Fee (Determined by BMDC)	:	Tk. 100.00
d) Mark Sheet Verification Fee	:	Tk. 200.00
e) Center Fee (Per subject per examination)	:	Tk. 500.00
f) College Magazine fee (Annually)	:	Tk. 700.00
g) Games, Sports & Recreational Activities Fee (Annually)	:	Tk. 2,000.00
h) Identity card Fee	:	Tk. 300.00
**i) Caution money	:	Tk. 5,000.00
j) Library	:	Tk. 3,000.00
Total Payable Amount		Tk. 4,10,000.00

N.B. ✓ Session fee per year (Tk. 25,000) payable up to 5th year. Should be paid within January of every year.

✓ Tuition fees up to 1st Professional Examination is Taka 2000 per month and from the start of clinical classes -Taka 3000 per month. Tuition fees are to be paid within 10th of every month. A fine of Taka 15/- per day will be imposed for failure to pay tuition fees in due time.

✓ Hostel facility(Boys & Girls separately) is also available.

✓ Hostel admission fee: Tk. 2500/-; Food & living: Tk. 3000/- per month (variable)

**Refundable on completion of the course after deduction of loss or breakages by the students or any other dues from the student as may be applicable as and when required.

Collection of Admission Form	20.01.06 - 05.02.06
Submission of Filled Form	up to 07.02.06
Admission Test	11.02.06. At 11 am
Publication of Written Result	13.02.06. At 9 am
Medical examination	13.02.06 upto 5pm
Publication of Result	14.02.06
Admission of selected students	15.02.06 - 25.02.06
Admission from Waiting list	26.02.06-28.02.06

CODE OF MEDICAL ETHICS

Ethics is all about ideal human conduct and an understanding of the moral values in which actions are judged as right or wrong; and persons and institutions are judged as praiseworthy or blameworthy.

All medical decisions involve an ethical component in addition to clinical or scientific component. Major ethical issues have arisen from increased respect for patients' rights', financial restraints and new technologies.

Behind medical ethics, must stand such cardinal virtues as wisdom, justice, temperance, courage and benevolence.

Patient's rights

The rights of the patient cover a broad range of moral and legal issues. The following are generally recognized as the rights of the patient;

- i. right to be treated,
- ii. right to privacy
- iii. right to know about the nature of illness and treatment required
- iv. the physician to keep information contained in patient's record confidential unless its release is required by law.
- v. right to have clear idea about medical bills he or she has to pay,
- vi. right to have access to his or her medical records.

Code of medical ethics

Almost up to the present century physicians were trained under an apprenticeship system, and each apprentice was required to take the Oath of Hippocrates. This code of ethics forms the basis of the Declaration of Geneva (1948) and the International Code of Medical Ethics (1949).

International Code of Medical Ethics

The "International Code of Medical Ethics", as adopted by the World Medical Association in London, in October 1949 describes.

a) Duties of Doctors in General

A doctor must always bear in mind the importance of professional conduct. A doctor must not allow himself to be influenced merely by motives of profit.

b) Duties of Doctors to the sick

A doctor must always bear in mind the importance of preserving human life from the time of conception until death.

A doctor owes to his patient absolute secrecy, complete loyalty and all the resources of his science.

c) Duties of Doctors to each other

A doctor ought to behave to his colleagues as he would have them behave to him.

The Oath of Hippocrates

"I swear by Apollo the physician, and Aesculapius, and Health, and All heal, and all the gods and goddesses.

That, According to my ability and judgment, I will keep this Oath and this stipulation - to reckon him who taught me this Art equally dear to me as my parents, to share my substance with him, and relieve his necessities if required; To look upon his offspring in the same footing as my won brothers, and to teach them this Art, if they shall wish to learn it, without fee or stipulation;

And that by precept, lecture, and every other mode of instruction, I will impart a knowledge of the Art to my own sons, and those of my teachers. and to discipline bound by a stipulation and oath according to the law of medicine, but to none others.
 I will follow that system of regimen which, according to my ability and judgment, I consider of the benefit of my patients, and abstain from whatever is deleterious and mischievous. I will give no deadly Medicine to any one if asked, nor suggest any such counsel; and in like manner I will not give to a woman a passery to produce abortioin.
 With purity and with holiness I will pass my life and practice my Art.
 I will not cut persons laboring under the stone, but will leave this to be done by men who are practitioners of this work.

Into whatever houses I enter, I will go into them for the benefit of the sick, and will abstain from every voluntary act of mischief and corruption and further from the seduction of females or males, of freedom and slaves.
 Whatever, in connection with my professional practice or not in connection with it, I see or hear, in the life of men, which ought not be spoken of abroad, I will no divulge, as reckoning that all such should be kept secret.
 While I continue to keep this oath unviolated, may it be granted to me to enjoy life and the practice of the Art, respected by all men, in all times; But should I trespass and violate this Oath, may the reverse be my lot"
 The foregoing Oath of Hippocrates have always been the foundation of all ethical relations in the practice of the art of healing.

Declaration of Geneva

The World Medical Association in Geneva adopted in September, 1948 the following declaration,

which is intended to be sworn when a doctor is admitted as member of medical profession:
 I solemnly pledge myself to consecrate my life to the service of humanity.

I will give to my teachers the respect and gratitude which is their due.

I will practice my profession with conscience and dignity.

The health of my patient will be my first consideration.

I will respect the secrets, which are confided in me.

I will maintain by all the means the honor and noble tradition of the medical profession.

My colleagues will be my brothers.

I will not permit considerations of religion, nationality, race, part politics or social standing to intervene between my duty and my patient.

I will maintain the utmost respect for human life from the time of conception.

Even under threat I will not use my medical knowledge contrary of the laws of humanity.

I make these promises solemnly, freely and upon my honor".



▲ Lecture Theatre of EMC

Eastern
 Medical
 College
 Comilla

◀ Library of EMC