



Eastern  
Medical  
College  
Comilla

Prospectus  
2004-2005



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



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

# Eastern Medical College

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Prospectus  
2004-2005

# Eastern Medical College Comilla



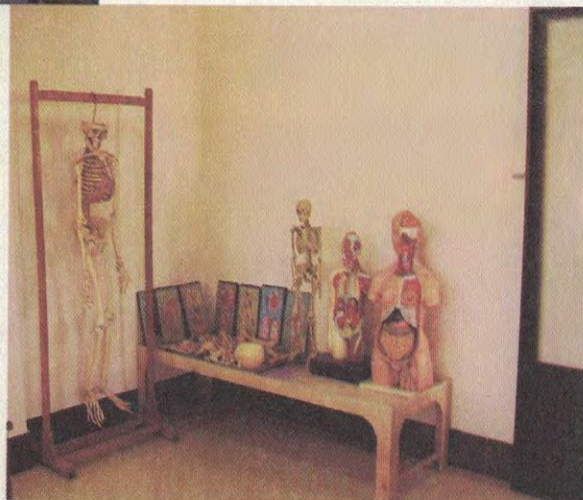
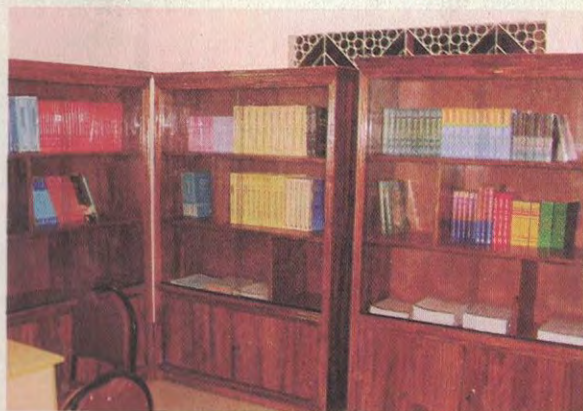
▲ Department of Bio-Chemistry



▲ Department of Physiology

▼ Department of Anatomy

▼ Library of EMC



# MESSAGE FROM THE CHAIRMAN

Comilla is situated in the eastern region of Bangladesh. President Zia laid the foundation stone of Comilla Medical College in the year 1979. Prime Minister Begum Khaleda Zia materialised his dream in the year 1992 when she inaugurated the 250 bed hospital which later became the teaching hospital for Comilla Medical College. Comilla now caters medicare to people from Laksmipur district in the south to Habiganj in the north which constitutes around 1/10<sup>th</sup> total population of Bangladesh. Majority of people of this area are poor - suffering from lack of health care facilities. Increased awareness of health related issues among the ever growing population has created an immense pressure on the existing Government medical sector. Now along with the Government Medical College there should be other Institutions in the private sector to provide medical care to the suffering people. It was my cherished dream to establish a medical college along with a low cost hospital attached to it. I have invested my time, energy and resources to accomplish this dream. I along with several professionals & business persons who are well acquainted with



my idea formed The Medical Education and Health Welfare Foundation (ME&HWF) for the establishment of Eastern Medical College.

Observing all infrastructural, academic & curricular facilities the Government has kindly granted us the permission to admit students from the current session of 2004-2005. I am now happy that the Eastern Medical College along with attached hospital has been established with all modern facilities to impart knowledge & training to the students and to provide health care facilities to the needy. The college now possesses a team of highly qualified, experienced & devoted teachers and staff who will put forward their best efforts to produce well qualified and trained medical graduates with high ethical values to serve the suffering humanity.

I wish to express my enormous gratitude to the Honourable 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 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

## MESSAGE FROM THE PRINCIPAL

I wish to congratulate all of 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 Institutions in the country, which is committed to impart the best possible professional knowledge. The college authorities have made great efforts to see that its physical facilities and academic environment are among the best.

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 .

It is very much essential to ensure the basic health care needs right upto the doorsteps of needy millions. It is difficult to achieve this goal with the current ratio of doctor to population of about 1: 4500. This proportion should be reduced to 1: 500. Only 1500 doctors are graduating yearly

from government medical colleges and another 500 from private medical colleges. To correct this doctor to population ratio the yearly output will have to be increased two to three fold. This can only be achieved by establishing more medical colleges both in public and private sectors. A number of private Medical Colleges have been established in different parts of the country. But there is none in greater Comilla and greater Noakhali district. Medical Education & Health Welfare Foundation, Comilla decided to establish Eastern Medical College with the sole aim of promoting health care facilities for general upliftment of the society. All the departments are well equipped and well staffed with highly qualified and experienced teachers. The college is housed in a multi storied building having adequate accommodations for lecture, tutorial and practical classes of various subjects. It has a conference room and a rich library.

Finally I express my gratitude to the chairman and founder members 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 Comilla.



**PROF. (DR) HABIBUR RAHMAN ANSARY**  
MBBS(DMC), M.PHIL(KAR), FCPS(BD)  
WHO & COMMONWEALTH FELLOW(ENGLAND).

## Founder Members of Eastern Medical College

01	<p><b>Shah Md. Selim</b> S/O. Late Md. Sujat Ali "Shah Dip". 332 Jurpukurpar,Thakurpara, Comilla.</p>
02	<p><b>Dr. Rocksana Begum</b> W/O.Dr. Musleh Uddin Ahmed 70/59 Ka, Nazrul Avenue, Kandirpar, Comilla.</p>
03	<p><b>Dr.Md. Abdul Quddus Akhand</b> Managing Director Mukti Hospital, Race Course, Comilla</p>
04	<p><b>Mrs. Syeda Tamanna Begum</b> W/O. Dr.Md. Kalim Ullah 148, Nazrul Avenue, Bagichagaon, Comilla-3500</p>
05	<p><b>Dr. Kamrun Naher</b> W/O. Late Dr. Zakir Hossain Bhuiyan " Shashata", 939 Jhawtala, Comilla.</p>
06	<p><b>Janab Md. Jahangir Bhuiyan</b> S/O. Abu Md. Julfikur Haider Bhuiyan Vill. Kaikhala, P.S. Qusba, Dist. B-Baria.</p>
07	<p><b>Mrs. Sabiha</b> W/O. Dr.Md. Shahab Uddin "Mohananda", Flat. 2-B, House No-39 Road No-11(New), Dhanmondi R/A, Dhaka-1212</p>
08	<p><b>Dr. Farzana Samdani alias Mrunalini Sharma</b> W/O. Dr. Golam Samdani "Sharma Maternity Care". Madina Masjid Road.2<sup>nd</sup> Kandirpar, Comilla-3500</p>
09	<p><b>Dr.Md. Shamsuzzaman</b> S/O. Mamtaz Uddin Ahmed "Nittyadham", Thakurpara, Comilla</p>
10	<p><b>Abdur Rouf</b> S/O. Haji Abdul Hoque Noorpur Bara Bari . Noorpur, Comilla-3500</p>
11	<p><b>Dr. Zamir Ahmed</b> 232, Railway Hawkers Market, Muktijoddha Sarak, Chandpur Ph: 60841, 63414, Mob: 0172-022626</p>

# FIVE 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 relationships, 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 his patients



# FIVE YEARS' MBBS COURSE

## ACADEMIC COURSE

Eastern Medical College offers 5 year's 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 curriculam, 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.....1 1/2yr		
1st Term	2nd Term	3rd Term
<ul style="list-style-type: none"> <li>Anatomy</li> <li>Physiology</li> <li>Biochemistry</li> <li>Community Medicine</li> </ul>		First 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 1 1/2 years ii) The Second Professional MBBS Examination at the end of 3 1/2 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.

1 1/2yr..... 3 1/2yr			
4th Term	5th Term	6th Term	7th Term
<ul style="list-style-type: none"> <li>Community Medicine</li> <li>Pharmacology</li> <li>Pathology</li> <li>Microbiology</li> <li>Forensic Medicine</li> </ul>		Second Professional MBBS Exam	

1 1/2 yr..... 2 1/2yr ..... 3 1/2yr..... 5 yr				
		8 <sup>th</sup> Term	9 <sup>th</sup> Term	10 <sup>th</sup> Term
<ul style="list-style-type: none"> <li>Medicine</li> <li>Surgery</li> </ul>	: Pediatrics & other medical specialities : Ophthalmology, Otolaryngology & Surgical specialities * Obstetrics and Gynecology	Final Professional MBBS Exam		

### 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; and
- the achievement of good working relationships with members of other 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 Examinations 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.

Examinations & Timing	Subjects of Examination Marks	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
	<b>Total</b>						<b>1300</b>
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
<b>Total</b>						<b>1500</b>	

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
<b>Total</b>							<b>1500</b>

## INTERNSHIP TRAINING

All students passing the Final Professional MBBS 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 2005 - DECEMBER 2006

First Professional MBBS Course will be offered during the first years (July 2005-December 2006) 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 2005	SECOND TERM January - June 2006	THIRD TERM July - December 2006
<u>Anatomy</u> General anatomy Cell Biology and Histology General Developmental Anatomy Gross Anatomy * Thorax * Superior Extremity	<u>Anatomy</u> General Anatomy Systemic Histology General Developmental Anatomy Human Genetics Gross Anatomy; • Abdomen • Inferior Extremity	<u>Anatomy</u> Systemic Histology Systemic Developmental Anatomy Neuroanatomy Gross Anatomy; • Head & Neck • CNS & Eye Ball
<u>Physiology</u> General Physiology Blood Cardiovascular Physiology	<u>Physiology</u> Respiratory Physiology Renal Physiology & Body Fluid Alimentary System	<u>Physiology</u> Endocrine & Reproductive System Nervous System Special Senses
<u>Biochemistry</u> Biophysics & Biomolecular Digestion & Absorption, Food, Nutrition & Vitamins	<u>Physiology</u> Bioenergetics & Metabolism Body Fluid, Electrolytes & Acid-Base balance	<u>Biochemistry</u> Clinical Biochemistry Clinical Endocrinology Molecular Biology & Genetics
<u>Community Medicine</u> Introduction to Community Medicine Bio-statistics	<u>Community Medicine</u> Behavioral Science Health Education National & International Health	
End Term Examination	End Term Examination	End Term Examination
<b>EVALUATION OF THE COURSE</b>	The University of Chittagong conducts the First Professional MBBS Examination at the end of 1 1/2 Years' course in January 2007.	

## DEPARTMENT OF ANATOMY

### FACULTY

#### ASSOCIATE PROFESSOR:

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

#### ASSISTANT PROFESSOR:

2. Dr.A.Q. Akhand  
MBBS, FWHO

#### LECTURERS:

3. Dr. Mohammad Khaza Ahmed, MBBS
4. Dr. Syed Didarul Islam, MBBS
5. Dr. Ujjal Barua, MBBS
6. Dr. Md. Nazmul Islam, MBBS
7. Dr.Md. Kamal Uddin, MBBS

#### COURSE OFFERED

Department of Anatomy offers 650 hours' Course during the first three Terms (1 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 dissections. 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 causes occasional malformations. Histology deals with normal ultra-structure of organs and later on are compared with the pathological status for the differentiation between the normal and abnormal. 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 CALENDAR

Class/Exam	Hours including class exams (hrs)	First Term July-December 2005	Second Term January -June 2006	Third Term (18 working weeks) July-December 2006
Lecture and Review	120	<ul style="list-style-type: none"> <li>• General Anatomy - 11 hrs</li> <li>• Cell Biology-06 hrs</li> <li>• General Histology - 16 hrs</li> <li>• General Development Anatomy- 14 hrs</li> </ul>	<ul style="list-style-type: none"> <li>• General Anatomy - 10 hrs</li> <li>• Systemic Histology-08 hrs</li> <li>• General Development Anatomy-02 hrs</li> <li>• Systemic Development Anatomy- 10 hrs</li> <li>• Human Genetics - 06 hrs</li> </ul>	<ul style="list-style-type: none"> <li>• General Anatomy- 10 hrs</li> <li>• Systemic Histology-06 hrs</li> <li>• Systemic Development Anatomy- 10 hrs</li> <li>• Neuroanatomy - 20 hrs</li> </ul>
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. - 08 hrs	Head and neck Card - 10 hrs C.N.S & Eyeball - 06 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			

First Professional MBBS Examination, January 2007

### ASSESSMENT IN ANATOMY

FIRST PROFESSIONAL MBBS EXAMINATION, JANUARY 2007.

Component		Marks	Total Marks
Formative 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			
Objective structured practical Exam (OSPE) including Spotting exam		30	75
Dissection		30	
Anatomy of Radiology and imagine		15	
Hard part			75
SPE including Spotting exam		30	
Lucky slides		20	
Living Anatomy		20	
Practical Khata		05	
Grand Total			500

## DEPARTMENT OF PHYSIOLOGY

### FACULTY

#### ASSOCIATE PROFESSOR:

1. Dr. Triptish Chandra Ghose  
MBBS, FPGCS, Ph.D.

#### ASSISTANT PROFESSOR:

2. Dr. Musleh Uddin Ahmed  
MBBS, MPH.

#### LECTURERS:

3 Dr. Md. Anwar Hossain, MBBS  
4 .Dr. MD. Zahirul Haque, MBBS  
5. Dr. Rafiq Uddin Ahmed, MBBS  
6. Dr. Md. Shahidul Islam, MBBS

### COURSE OFFERED

Department of Physiology offers 380 hours' Course during first three Terms (1years) 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 characteristic 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 normal 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.
- develop sound attitude towards the need for continuing self-education.

## COURSE ORGANIZATION & ACADEMIC CALENDAR

Class/ Exam	Hours	First Term July - December 2005	Second Term January - June 2006	Third Term July- December 2006	First Professional MBBS Examination, January 2007
Courses	120	<ul style="list-style-type: none"> <li>● General Physiology (A)</li> <li>● Blood (B)</li> <li>● Cardiovascular Physiology (C)</li> </ul>	<ul style="list-style-type: none"> <li>● Respiratory Physiology (A)</li> <li>● Renal Physiology &amp; Body fluids(B)</li> <li>● Alimentary system (C)</li> </ul>	<ul style="list-style-type: none"> <li>● Endocrinology &amp; Reproduction (A)</li> <li>● Nervous system &amp; Temp regulation (B)</li> <li>● Special senses (C)</li> </ul>	
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 Exam		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 OF PHYSIOLOGY

Summative Assessment (First Professional Examination, January 2007)

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

## DEPARTMENT OF BIOCHEMISTRY

### FACULTY

#### ASSOCIATE PROFESSOR:

1. Dr. Sultana Parveen  
MBBS, M.Phil

2. Dr. Zamir Ahmed  
MBBS, F.C.P.S.

#### LECTURERS:

3. Dr. Md. Rashedul Islam, MBBS.  
4. Dr. Md. Golzar Hossain, MBBS.

### COURSE OFFERED

Department of Biochemistry offers 270 hours' course during the first three Terms ( 1 ½ years) of MBBS course.

### 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 CALENDAR

First Term July - December 2005				
Biophysics and Biomolecular	18 hrs	16 hrs	15 hrs	0 hrs
Digestion & Absorption, Food & Nutrition	14 hrs	15 hrs	10 hrs	2 hrs
<b>Total</b>	<b>32 hrs</b>	<b>31 hrs</b>	<b>25 hrs</b>	<b>2 hrs</b>

Second Term January - June 2006				
Bioenergetics & Metabolism	28 hrs	25 hrs	10 hrs	2 hrs
Clinical Endocrinology	10 hrs	10 hrs	00 hrs	2 hrs
<b>Total</b>	<b>38 hrs</b>	<b>35 hrs</b>	<b>10 hrs</b>	<b>4 hrs</b>

Third Term July - December -2006				
Molecular Biology and Genetics	10 hrs	10 hrs	00 hrs	00 hrs
Clinical Biochemistry	10 hrs	10 hrs	25 hrs	202 hrs
Renal Biochemistry, Acid base balance electrolyte balance	10 hrs	14 hrs	00 hrs	02 hrs
<b>Total</b>	<b>30 hrs</b>	<b>34 hrs</b>	<b>25 hrs</b>	<b>04 hrs</b>

### EVALUATION OF BIOCHEMISTRY

Summative Assessment (First Professional Examination, January 2007)

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

## DEPARTMENT OF COMMUNITY MEDICINE

### FACULTY

#### PROFESSOR:

1. Dr. Syed Sharafat Ali  
MBBS, DPH, FWHO

#### ASSISTANT PROFESSOR:

2. Dr. Uttam Kumar Ghosh  
MBBS, DTM&H, MCTM

#### LECTURERS:

3. Dr. Niluthpol Kumar Das, MBBS
4. Dr. Nafisa Nasrin, MBBS

### COURSE OFFERED

Study of Community Medicine will start from 1<sup>st</sup> 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 Course during 2<sup>nd</sup> Professional MBBS Course (Term 1-4).

### 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, 2005	SECOND TERM January - June 2006	THIRD TERM July December, 2006
<u>Community Medicine</u> <ul style="list-style-type: none"> <li>● <u>Introduction to Community Medicine</u> Lecture: 6 hours Tutorial : 6 hours</li> <li>● <u>Bio-statistics</u> Lecture : 8 hours Tutorial: 8 hrs</li> </ul>	<u>Community Medicine</u> <ul style="list-style-type: none"> <li>● <u>Behavioral Science:</u> Lecture: 6 hours Tutorial: 14 hours</li> <li>● <u>Health Education:</u> Lecture: 4 hours Tutorial: 8 hours</li> </ul>	
Total: 28 hours	Total: 42 hours	
End Term Examination	End Term Examination	1st Prof Exam - JAN 07

### 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 : 11:00 a.m. 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.
7. College Discipline grounds : Students must observe strict discipline in the college. On disciplinary following penalties may be imposed which will be recorded in the students' transcript testimonial.
  - A Warning letter to the student 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 and : 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 six months. 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 Papers. 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 Principal on payment of a non-refundable fee of Taka 500/- 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.
    - Nationality Certificate by appropriate authority.
    - 4 (four) copies of recent passport size photographs. One of these photographs 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. Environment is 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/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. 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 equipment's 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 Principal 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.10,000.00
3.	Tuition Fee	:	Tk.2,000.00
4.	Others Fee		
	a) Affiliation Fee	:	Tk.2,000.00
	b) University Registration Fee (Determined by University of Chittagong)	:	Tk. 200.00
	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. 10,000.00
	j) Library	:	Tk. 2,000.00
<b>Total Payable Amount</b>			<b>Tk. 3,80,000.00</b>

NB. 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.

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

\* Hostel facility is also available.

Collection of Admission Form	18.05.05- 25.05.05
Submission of Filled Forms	up to 28.05.05
Admission Test	31.05.05. At 10 A.M
Publication of Result	01.06.05
Medical examination	02.06.05
Admission of Selected Students	02.06.05 - -12.06.05
Starting of Classes	15.06.05

## Student's Bond

I hereby declare that as a student of Eastern Medical College :

- I shall abide by the rules and regulations of the college and those of the Eastern Medical College Hospital & the ME&HWF, Comilla .
- I will refrain from any activities that may tarnish the image and credibility of the Eastern Medical College, Eastern Medical College Hospital and ME&HWF, Comilla.
- I shall not behave individually or collectively in any manner unbecoming of a student or resort to any action prejudicial to the interest of the college or hospital or the ME&HWF, Comilla .
- I fully comprehend in sound mind that I am liable to be expelled from the college for any misconduct as understood by the college authorities .

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Student's Signature

## Parent's/guardian's Bond

I hereby declare that the authorities of the Eastern Medical College, Eastern Medical College Hospital and ME&HWF, Comilla shall have the right of taking any disciplinary action including expulsion from the college against my ward for any misconduct or his behavior which is in contravention of the rules and regulations of the college.

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Guardian's Signature

# Eastern Medical College (EMC)

Race Course, Comilla

Receipt of application submitted for the candidate of 2004-2005 session 1st year MBBS Course

Name : .....

Father's Name : .....

Permanent Address : .....

Registration No : .....

Examination Date : ..... Time.....

Medical Examination Date : ..... Time.....

Received by : .....

Designation : .....

\_\_\_\_\_  
Signature of the Student

Received a sum of Taka 500 (Taka Five hundred) only for prospectus and Admission Form (non refundable)

\_\_\_\_\_  
Signature of the College Authority



## 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.

### Patients' 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 maintain the highest standards 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 abortion.

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 to be spoken of abroad, I will not 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, party 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 to the laws of humanity.

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



▲ Lecture Theatre of EMC



◀ Library of EMC

Eastern  
Medical  
College  
Comilla



College Campus

Race Course.Comilla. Ph.081-76930,Mobile: 0171-786333, 0171-747477

47 Bangladesh Knowledge Comilla  
Ph. 81 450 0171/76930

