

DEPARTMENT OF BIOMEDICAL PHYSICS & TECHNOLOGY

UNIVERSITY OF DHAKA

DHAKA-1000, BANGLADESH



MS IN BIOMEDICAL PHYSICS & TECHNOLOGY

INFORMATION FOR ADMISSION

SESSION 2011-2012

MS in Biomedical Physics & Technology

The Department of Biomedical Physics & Technology is a postgraduate multidisciplinary department. It emphasises research and development aimed at delivering the benefits of modern healthcare technology to the common people in the Third World countries like Bangladesh, home to about 80% of the global population. Aiming for relevant and target oriented research, this department initially started Ph.D. and M.Phil. programmes in 2008. This year the department is initiating an MS programme in order to create manpower for developing healthcare technology locally, and for creating manpower to understand, install and operate sophisticated equipment in hospitals, and to take part in radiotherapy through dosimetry and treatment planning.

Basic features of the course:

1. Regular full-time MS programme
2. Course duration: one academic year
3. Number of seats is limited to 15

Admission requirements:

Applicants must satisfy the following requirements:

- a. must have a minimum CGPA of 3.50 out of 5.00 or a first division or equivalent in both S.S.C. and H.S.C. or in equivalent examinations
- b. four (4) year graduation (or equivalent) in Physics, Applied Physics & Electronics, Electrical and Electronic Engineering, Computer Science and Engineering and related subjects with at least 50% marks or a minimum CGPA of 2.50 out of 4.0

Admission Test:

A written admission test (MCQ) will be taken to test aptitudes and logical concepts in Physics (40%), relevant engineering knowledge (40%), mathematical and analytical techniques (20%).

Only short listed candidates, based **only on the results of this admission test**, will be called for an interview for final selection.

Course Outline:

A student has to take 32 credits by choosing from the following courses to get an M.S. degree in Biomedical Physics & Technology. (1credit=15 lectures)

A. Mandatory courses for all students:

	Credits
BPT-M_01. Biophysics and Medical Radiation Physics	4
BPT-M_02. Human Body in Health & Disease	4
BPT-M_03. Biomedical Instrumentation	4

BPT-M_04.	Bio-electricity & Bio-impedance	2
BPT-M_05.	Medical Imaging methods	2
BPT-M_06.	Computers & Microcontrollers in Healthcare	2

Sub-Total A: **18**

B. Optional courses (4 credits to be taken)

(For the first session only BPT-M_13 and BPT-M_14 will be offered)

BPT-M_11.	Physics for Medicine	2
BPT-M_12.	Electronics	2
BPT-M_13.	Research Methodology and Biostatistics	2
BPT-M_14.	Signal processing in Biomedical Engineering	2
BPT-M_15.	Computational techniques	2
BPT-M_16.	Biophotonics	2

Sub-Total C: **4**

C. Other Mandatory Courses

BPT-M_21.	Practical laboratory work	4
BPT-M_22.	Dissertation	4
BPT-M_23.	Oral examination	2

Sub-Total C: **10**

Grand TOTAL: **32**

Grades:

Grades in each subject will be assigned as follows:

Marks	Letter grade	Grade point
80% or above	A+	4.00
>=75% but <80%	A	3.75
>=70% but <75%	A-	3.50
>=65% but <70%	B+	3.25
>=60% but <65%	B	3.00
>=55% but <60%	B-	2.75
>=50% but <55%	C+	2.50
>=45% but <50%	C	2.25
>=40% but <45%	D	2.00
Less than 40	F	0.00

Degree requirements:

For a degree in “MS in Biomedical Physics & Technology” the student must

- complete the total 32 credits
- pass all courses individually with at least in D grade
- have minimum GPA of 2.50

FEES and Others:

Fees are taken by the University as per University rules
The department may charge a yearly fee which will be announced later.

Contact:

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