

Magadh Univeristy, Bodhgaya
M.SC. COURSE IN BIOCHEMISTRY
INSTITUTE OF BIOCHEMISTRY
UNIVERSITY DEPARTMENT OF BOTANY
MAGADH UNIVERSITY
BODH-GAYA824234
BIHAR, INDIA

Magadh University is one of the largest University in Bihar and India, functioning as an important academic centre since the 2nd March 19612, The University has developed vertically and horizontally having 24 Post Graduate Departments, 44 Constituent and 85 affiliated colleges with above 2 lakh Students and 2 Thousand teachers. The university expands over the area of Gaya, Patna, Jehanabad, Arwal, Nalanda, Nawada and Aurangabad districts. It owes its very name from the Ancient Empire of Magadh. It imparts higher education IN HUMANITIES, Social Sciences, Sciences, Applied Economics and Commerce, Medical, Engineering, Distance Education, Management, etc. The Headquarter of the University is established at Bodhgaya. The center is only about 2.5 km. From the Mahabodhi Temple the world Heritage Site on the Gaya – Dobhi National Highway No 83. The campus is a unique site, which expands over 650 acres of land and has lush green and attractive environs free from pollutions. A number of Hostels, Departments and the massive Administrative and library Buildings along with the huge Emaminational Hall are the features of Attractions. Moreover, the large sized Sports Stadium is the landmark of the campus. Medical Centres, Canteen, University Press, Other Sport-grounds and well-furnished Guest House are such places, which provide a claim of demand of rmaking the campus a Central University.

Gaya and Bodhgaya

Gaya and Boghgaya are two towns not as twin but definitely behaving like so. The two townships are emerging in such a fascinating way that within a decade the are set to be continuous and may emerge as a million city with glorious history and heritages of the religious-tourism. Gaya is a district town the second most populous city of Bihar having above 6 lakhs population belonging to the different socio-economic and cultural groups. It is a place of Lord Vishnu where Vishnupad Temple is located on the western side of the River Phalghu. Here lakshs of people perform ‘pindan’ every year. Gaya is also a Railway Junction, which lies on the Howrah –New Delhi Grand Chord Line of the Eastern- Central Railway. All- Important trains up and down from Delhi to Howrah stop and pass through Gaya. Gaya has been facilitated with the international airport. It is also linked with the railroads from Patna, the capital and the million city of the state which is about 100 km. north of Gaya.

Bodh Gaya is comparatively a small urban center with a population of 30883 (2001), situated on the western bank of River Nirnajna. It is located in the South Ganga Plain, about 14 kms. South of Gaya and is connected with metalled roads. It is about 20 kms north of Dobhi a road nodal point of Grand Trunk Road , the National Highway No. 2 which connects the towns with kolkata in the east and Delhi on the West. This small

city is the site of world famed Mahabodhi Temple where lord Buddha was enlightened and since then it is known as “the holiest among the holy places”. At present it is the International heritage site of tourism where more than 5 lakh tourists and pilgrims visit every year from far and wide. People coming by train alight at Gaya Junction and reach Bodhi Gaya by private cars, taxis, autos, within half an hour. So it is a place of peace and solidarity. To stay and study here is the great opportunity. Only fortunate persons avail it.

Introduction:-

Biology has long been engaged in commercializing for the benefit of mankind. During the last few decades biochemistry has gained momentum in understanding the physiology of human beings, animals and plants. Appreciating its importance in agriculture, environmental science, pharmacology, pharmacognosy, medicine, veterinary, biotechnology, molecular biology, microbial genetics, dairy industries and industrial chemistry, the study of biochemistry has been one of the prime considerations of the UGC.

Aims and Objectives:

Visualizing the immense significance of biochemistry, Magadh University decided to introduce M.Sc. course in Biochemistry under self finance scheme from the academic session 2009-2010 with a view to enhance skilled human resource base and to generate potential for employment opportunities to the future generation in the interest of economic growth of the nation.

Faculty

An efficient set of teachers of University Department of Botany, Chemistry, and Biochemistry Department of A.N.M. Medical college, Gaya / other institution / National laboratories is available to cope with various dimensions of biochemistry. For smooth running of the course there will be a course coordinator, who will be responsible for the academic matters of the institute.

Facilities Available in the Institute of Biochemistry

The Institute of Biochemistry, presently located in the University Teaching Department of Botany, Magadh University, Bodhi Gaya will provide the following facilities to the admitted students.

1. Library: The library of Botany Department has sufficient stock of books on biochemistry, biotechnology, immunology, genetic engineering, computational biology, enzymology, microbial genetics and related disciplines for both teaching as well as research.
2. Laboratories: The Botany Department has well – equipped laboratories for related disciplines of biochemistry to conduct experiments based on the course.
3. Computers: Computer facility is available.
4. Conference Room : The Department has a well furnished conference room for holding seminar / symposia / conferences / group discussions.
5. Hostels : Magadh University has sufficient number of hostels for boys and girls in the university campus to provide accommodation to desirous admitted students.
6. Sports Facilities : The university has a well maintained sports complex having (i) stadium and (ii) student home for indoor games.

Brief Regulation

Admission: The admission to M.Sc. Biochemistry course will be made strictly on merit, based on a written entrance test of 75 marks, followed by viva-voce of 25 marks, taken together.

Eligibility: The minimum qualification for appearing at the entrance test is as follows:

(a) A Graduate with Chemistry, Botany, and Zoology having Hons. Degree in any of these subjects.

OR

(b) A Graduate with Hons. Degree in Biochemistry / Biotechnology / Microbiology / Industrial microbiology / Bioinformatics.

OR

(c) An M.B.B.S / B.V.Sc. / Pharmacy / Agriculture from a recognized University / institute established by law.

A candidate who has obtained at least 50% marks in aggregate at the graduate level shall be eligible for appearing at the entrance test of biochemistry, however this limitation is relaxable to 45% SC / ST / OBC and Women candidates.

Entrance Test:

The entrance test will cover written examination of multiple-choice objective type questions carrying 75 marks followed by viva-voce of 25 marks.

The questions will cover the disciplines such as chemistry, biochemistry, molecular biology, biotechnology and elementary knowledge of computer. The duration of written test shall be of 90 minutes.

Only those candidates will be called for viva-voce who qualify at the entrance test, the cut off marks would be decided by the managing committee.

Reservations:

Reservation of seats to SC/ST/OBC/BCW//Women will be as per rules of Magadh University. Besides 10% seats will be reserved for Magadh University HQ. Employees. In case sufficient number of candidates is not available under reserved category, the vacant seats will be offered to the candidates belonging to general category.

Intake capacity:

The total number of seats available for admission to this course is 20 (twenty) including both general and reserved categories. However, there would be five paid seats and five NRI / PIO in addition to the sanctioned strength.

Fee Structure per annum:

The fee structure per annum will be as follows:

(a)	Admission	-	Rs. 500
(b)	Tuition fee	-	Rs. 25,000/-
(c)	Laboratory Charge	-	Rs. 10,000/-
(d)	Library Charge	-	Rs. 3,000/-
(e)	Miscellaneous Charge	-	Rs. 500/-
(f)	Examination Fee	-	Rs. 1000/-
	<u>Total Rs.</u>		<u>Rs. 40,000/-</u>

In addition to the above annual fees students will have to pay refundable caution money for laboratory @ Rs. 1000/- and for library @ Rs. 1000/- at the time of admission per year.

Duration and Examination

The master course of Biochemistry will be of two academic years and the medium of instruction will be English. The first year of the course shall be called M.Sc. (Previous) and the second year M.Sc. (Final). There will be one annual examination at the end of each year. Students of other universities admitted to this course have to be registered with Magadh University, and then only be eligible for appearing at the annual examination of this course.

Discipline:

The students admitted to this course are supposed to follow the instructions of discipline as laid down by the institute in order to facilitate smooth functioning.

Attendance:

Each student has to register a minimum of 755 attendances in both theory and practical classes separately failing which he/she will not be allowed to appear at the university examination.

Mode of Payment:

All payments are to be made through demand draft in favour of **Director Institute of Biochemistry, Magadh University, Bodhgaya payable at Bodhgaya.**

COURSE STRUCTURE M.Sc. (Previous Year)

The M.Sc. Course in Biochemistry will contain the following papers each carrying 100 marks to be completed in two academic sessions / years M.Sc. (Previous) and M.Sc. (Final)

Course Title	Marks	Duration (In Hours)
Paper I : Organic and Biophysical Chemistry	100	03
Paper II : Cell and Membrane Biology	100	03
Paper III : Bioenergetics and Metabolism	100	03
Paper IV : Plant Biochemistry and Environmental Biochemistry	100	03
Paper V : Human Physiology	100	03
Paper VI : Practical (covering Paper I to III)	100	06
Paper VII : Practical (covering Paper IV to V)	100	06
Paper VIII : Project M.Sc. (Final Year)	100	
Paper IX : Enzymology	100	03
Paper X : Immunology and Immunochemistry	100	03
Paper XI : Molecular Biology and Genetic Engineering	100	03
Paper XII : Biostatics and Bioinformatics	100	03
Paper XIII : Elective Papers (Any One) 1. Clinical Biochemistry 2. Microbiology 3. Biotechnology	100	03
Paper XIV : Practical	100	06
Paper XV : Practical on Elective Paper	100	06
Paper XVI : Project	100	

In all ten questions are to be set from the entire prescribed syllabus consisting of long answer type, short answer type and multiple choice type questions. Out of ten questions, the first question be made compulsory consisting of multiple choice type. Candidate will be required to answer five questions including the compulsory question no. 1.

Prospectus :

Prospectus with application form for admission to **M.Sc. Biochemistry Course Magadh university will be available on Payment of Rs. 500/- (Rupees Five Hundred only) through DD / banker's cheque in favour of Director Institute of Biochemistry payable at Bodhgaya.**

Contact Us:

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Board of Management

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