

About the Biophysics Department

Introduction

There are very few Indian universities which have brought Biophysics in to the society as a subject for academic degree and research. The North-eastern part of our country was in dark about Biophysics until the department of Biophysics was established in our college. We believe that setting up such a department will bridge up this region to the other part of our country and the world as well and with the facilities available in our college. Pub Kamrup College can be second to none for such dream. The department is a brainchild of the Advanced Level Institutional Biotech Hub of the College.

Aim of the Department

The department is the first of its kind in the entire North Eastern region of our country with a motive to nurture the young minds by the sensation of Biophysics and to train them up and to motivate to carry out scientific investigation about biological systems with the help of Physics, Chemistry, Biology and Mathematics.

Programme Offered

Integrated M.Sc and M.Sc Programme.

Year of establishment	2017
Affiliated University	Gauhati University, Session up to (2019-2020) but now Under Assam Science and Technology University (ASTU)
Awarding Degree	Integrated M.Sc and M. Sc.
Subject	Biophysics
Course duration	For Integrated M.Sc. 5 years (Six Semester) and For M.Sc 2 years (four semester)
Course type	Self-financed

Year of Establishment of M.Sc In Biophysics

At the very beginning, Pub Kamrup College has started a **M.Sc. programme in Biophysics** with due permission and affiliation of Gauhati University from the academic session 2017 – 2018.

Year of Establishment of Integrated M.Sc In Biophysics

The education system in India has seen a lot of transformation over the decades. The introduction of integrated programmes in higher education is one of them. The integrated course is a degree programme that merges two degrees and a single degree is awarded as a whole after the completion of course. Presently, there are various colleges/institutes/Universities in india that offer integrated courses.

Again Pub Kamrup College has become pioneer in the area of Biophysics in North East India by opening **5 (3+ 2) years integrated M.Sc. in Biophysics** Programme with due permission and affiliation under Assam Science and Technology University (ASTU) in the year of 2020-2021 to offer masters programme in integrated Biophysics with the aim of inculcating research at the early stage. Accordingly the syllabus of the course is designed to create a basic scientific awareness among all the interdisciplinary subjects. The Integrated M.Sc in Biophysics programme will have courses that cover both fundamental and advanced topics in Biophysics This programme offers theoretical and experimental courses and skill development to the students through seminar presentation, opportunity to take a class to the lower semester students having soft skill development. Project work in the final semester makes the course an attractive to the students in pursuit of higher dimension of science.

Programme Eligibility

PROGRAMMES	ELIGIBILITY
Integrated M.Sc.(Biophysics) (5 years)	A pass in Higher Secondary Examination conducted by the State / Central Board of Secondary Education or its equivalent examination with Physics, Chemistry, Biology and Mathematics as subjects with a minimum of 50% overall marks

Lateral Biophysics (2 Years)	M.Sc.	Graduation with with Physics, Chemistry, Biology or Botany / Zoology, Mathematics as subjects with a minimum of 50% overall marks
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Infrastructure and Laboratories facilities

The Dept. of Biophysics is in a full-fledged science building floor with state of the art infrastructure facilities. The department has four classrooms, three laboratories, one library and own seminar room with seating capacity for 36 persons as well as the facility for LCD power point presentation.

The department is very much fortunate to claim the full credit of Biotech Hub for the optimal use of laboratory facilities for setting and running the laboratory facilities for Integrated M.Sc and M. Sc. in Biophysics. It is also encouraging that the help of the Guwahati Biotech Park, IASST, IITG is assured for the sophisticated instrumentation facilities by the concerned authorities to run the course effectively.

It is our pride to inform you that the Gauhati University and Assam Science and Technology University has recognized the laboratory as the Integrated M.Sc and M. Sc. (Biophysics) practical examination centre after proper inspection in the very first year of its beginning.

Till now third batch students of the department of Biophysics successfully completed the MSc. 4th semester final examinations.

Instruments available in the Department

1. Aeriator	16. Gel documentation system
2. Autoclave	17. General centrifuge
3. BOD incubator	18. General microtone
4. Circulating water bath	19. Hand centrifuge
5. Conductometer	20. Hot air oven
6. Cryostat	21. Laminar flow

7. Digital water bath	22. Master Cycler
8. Digital pH meter	23. Agarose and PAGE set up
9. Digital flame photometer	24. Polarimeter
10. Electronic balance	25. Refrigerated centrifuge
11. Rotary evaporator	26. Trinocular/Binocular microscope
12. Thermocycler	27. Ultrasonic interferometer
13. UV-Vis spectrophotometer	28. Visible range
14. Water analyzer	29. LED characteristics Apparatus