

Department of Biochemistry, West Bengal State University

1. Short profile:

This Department of Biochemistry is mainly dependent on the guest lecturers since 2008 with teachers from other departments of WBSU in-charge of the Department as a co-ordinator. Initially, this Department was run by the teachers of the Department of Microbiology, WBSU, with Dr. Sibani Chakraborty as Co-ordinator-in Charge (2009-2012). Subsequently, the Department was run by Dr. Biplab Giri, Department of Physiology, WBSU, as a Co-ordinator-in-Charge (2012-2014). Presently, Dr. Krishna Ray, Department of Botany, WBSU is the Co-ordinator-in- Charge. The practical classes were conducted by the faculties of the Department of Microbiology followed by Dr. Biplab Giri and presently by Dr. Krishna Ray.

2. Courses offered : M.Sc. in Biochemistry

3. Student database :

Sessions	Intake Capacity	Students admitted and pursued study	No. of first classes	NET/GATE/DST- INSPIRE
2008-2010	15	9	9	NET JRF- 1 / GATE -1 / DST-INSPIRE -1
2009-2011	15	10	10	DST INSPIRE-1/GATE -5
2010-2012	15	6	5	DST-INSPIRE & NET JRF-1/GATE-1
2011-2013	15	4	3	Employed as chemist-1
2012-2014	20	12	11	DST-INSPIRE -1
2013-2015	20	17	Ongoing	
2014-2016	22	13	Ongoing	

4. M.Phil/Ph.D: BRS (Bureau of Research Studies) newly formed since May, 2015

5. Seminars/ workshops organised : Not applicable

6. List of guest professors with affiliation since 2009.

- i. Prof. N.C. Mondal
Scientist (Retired), Bose Institute. Kolkata
- ii. Prof. Kamales Bhowmick
Scientist (Retired), S.I.N.P. Kolkata
- iii. Prof. Tapati Chatterjee
Scientist (Retired), I.I.C.B., Kolkata
- iv. Dr. Biswadip Das
Associate Professor, Jadavpur University
- v. Dr. Aparna Maitra

Ex-Principal, Sarada Maa Girls College, Barasat

- vi. Dr. Alok Ranjan Koley
Associate Professor (Retired), Ananda Mohan College, University of Calcutta
- vii. Dr. Rupanjan Mukhopadhyay
Assistant Professor, Dept. of Zoology, City College.
- viii. Dr. Asim Kumar Bera
Ex-Assistant Professor, Dept. of Microbiology, Kingston College
- ix. Dr. Tuhin Subhra Sarkar
Assistant Professor, Dept. of Zoology, New Town Govt. College
- x. Dr. Aresh Banerjee
Consultant Scientist, All Asia Institute of Medical Science, Kolkata
- xi. Dr. Avijit Ghosh
Ex-Postdoctoral researcher in Dept. of Biochemistry, Univ. of Calcutta and Invited Lecturer in Department of Genetics, University of Calcutta
- xii. Dr. Samarjit Ray, Ex-Scientist, JK Agrigenetics Ltd (2011- 2013), Hyderabad
- xiii. Dr. Tapan Kumar Pal, Assistant Professor in Department of Biotechnology, Bengal Institute of Technology, Kolkata 700150
- xiv. Dr. Tanaya Das
Ex- Assistant Professor at Biotechnology Dept., Invertis University, Bareilly U.P.

7. Any grant received:

Sanctioned Grant-in-aid for Instruments along with supporting infrastructure and accessories for Research and associated Post-Graduate Teaching from Government of West Bengal- **Rs. 45, 07, 000/-** (2014-15). The amount received till date is **Rs. 13, 57,161/-**.

8. Total number of publications since 2009: Not applicable

9. Future plan in teaching and research:

The Department is yet to recruit permanent faculties. The Departmental laboratory is to be well established utilizing the Governmental grant-in-aid. The recently formed BRS will start regular RET and Ph.D course work for researchers eligible for registration to Ph.D degree.

10. Linkages with other universities/institutes:

M.Sc. students are regularly sent for final semester project work to other institutes and universities like Dept. of Biochemistry, Dept. of Neurobiology, Dept. of Molecular Biology and Biophysics, University of Calcutta, Dept. of Biochemistry, NRS Medical College, Kolkata, Dept. of Biochemistry, IPGME &R (SSKM Hospital), CNCI, IICB, JU, Bose Institute, Department of Biochemistry, Calcutta Medical College, School of Tropical Medicine etc.

11. The course offered are as follows:

M. Sc. Biochemistry Syllabus (Ad-hoc)

Department of Biochemistry
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Distribution of Courses and Credits

SEMESTER – I

Course code	Title	Credits
BC 1.1	Biomolecules and Cell Biology	3
BC 1.2	Metabolism-I and Bioenergetics	4
BC 1.3	Introductory Physiology	3
BC 1.4	Enzymology	4
BC 1.5	Microbial Biochemistry	2
BC 1.6	Bioorganic Preparations (Practical)	2
BC 1.7	Enzymology (Practical)	2
		Total 20

SEMESTER – II

Course code	Title	Credits
BC 2.1	Metabolism- II	4
BC 2.2	Bioanalytical Techniques	4
BC 2.3	Immunology	4
BC 2.4	Nutritional Biochemistry	3
BC 2.5	Analytical Techniques (Practical)	2
BC 2.6	Microbiology and Immunology (Practical)	2
BC 2.7	Assignment and Seminar - I	1
		Total 20

SEMESTER – III

Course code	Title	Credits
BC 3.1	Plant Biochemistry	4
BC 3.2	Methods in Molecular Biology	4
BC 3.3	Clinical Biochemistry	4
BC 3.4	Neurobiochemistry	3
BC 3.5	Analytical Biochemistry (Practical)	2
BC 3.6	Enzyme Technology (Practical)	2
BC 3.7	Assignment and Seminar - II	1
		Total 20

SEMESTER – IV

Course code	Title	Credits
BC 4.1	Molecular Biology	4
BC 4.2	Biotechnology	4
BC 4.3	Molecular Techniques (Practical)	2
BC 4.4	Clinical Biochemistry (Practical)	3
BC 4.5	Assignment and Seminar - III	1
BC 4.6	Project Work, Presentation and Grand viva	8
		Total 22

TOTAL CREDITS 82