

**Curriculum**

of

**B.Sc. (Honours) Biochemistry**

Under

**Choice Based Credit System**

**KAZI NAZRUL UNIVERSITY**  
**ASANSOL**  
**WEST BENGAL**

## SCHEME FOR CHOICE BASED CREDIT SYSTEM

### Curriculum for Biochemistry Honours

Kazi Nazrul University, Asansol

#### Semester – I

Sr. No.	Name of the subject	Nature	Code	Teaching Scheme In hours per week			Credit
				L	T	P	
1	Molecules of Life	Core Course-I		4			4
2	Molecules of Life (Practical)	Core Course-I(Practical)				4	2
3	Cell Biology	Core Course-II		4			4
4	Cell Biology (Practical)	Core Course-II (Practical)				4	2
5	GE-I	GE					4
6	GE-I (Practical)	GE					2
7	EVS	AECC					4
Total Credit →							22

#### Semester – II

Sr. No.	Name of the subject	Nature	Code	Teaching Scheme In hours per week			Credit
				L	T	P	
1	Proteins	Core Course-III		4			4
2	Proteins (Practical)	Core Course-III (Practical)				4	2
3	Enzymes	Core Course-IV		4			4
4	Enzymes (Practical)	Core Course-IV (Practical)				4	2
5	GE-II	GE					4
6	GE-II (Practical)	GE					2
7	Eng/MIL	AECC					2
							20

#### Semester – III

Sr. No.	Name of the subject	Nature	Code	Teaching Scheme In hours per week			Credit
				L	T	P	
1	Metabolism of carbohydrates and lipids	Core Course-V		4	0	0	4
2	Metabolism of carbohydrates and lipids (Practicals)	Core Course-V (Practical)				4	2
3	Membrane biology and Bioenergetics	Core Course- VI		4			4
4	Membrane biology and Bioenergetics (Practical)	Core Course-VI (Practical)				4	2
5	Metabolism of amino acids and nucleotides	Core Course-VII		4	0	0	4
6	Metabolism of amino acids and nucleotides (Practical)	Core Course-VII (Practical)		0	0	4	2
7	GE-III	GE					4
8	GE-III (Practical)	GE					2
9	SEC-I	AEEC-I					2
							26

### Semester – IV

Sr. No.	Name of the subject	Nature	Code	Teaching Scheme In hours per week			Credit
				L	T	P	
1	Human Physiology	Core Course-VIII		4			4
2	Human Physiology (Practical)	Core Course-VIII(Practical)				4	2
3	Gene organization, replication and repair	Core Course- IX		4			4
4	Gene organization, replication and repair (Practical)	Core Course- IX (Practical)				4	2
5	Hormone: Biochemistry and Function	Core Course X		4			4
6	Hormone: Biochemistry and Function(Practical)	Core Course X (Practical)				4	2
7	GE-IV	GE					4
8	GE-IV (Practical)	GE					2
9	SEC-II	AEEC-II					2
							26

### Semester – V

Sr. No.	Name of the subject	Nature	Code	Teaching Scheme In hours per week			Credit
				L	T	P	
1	Concepts in Genetics	Core Course- XI		4			4
2	Concepts in Genetics (Practicals)	Core Course-XI (Practical)				4	2
3	Gene expression and regulation	Core Course- XII		4			4
4	Gene expression and regulation (Practical)	Core Course- XII (Practical)				4	2
5	DSE-I	DSE-I					4
6	DSE-I (Practical)	DSE-I					2
7	DSE-II	DSE-II					4
8	DSE-II (Practical)	DSE-II					2
				Total Credit			24

### Semester – VI

Sr. No.	Name of the subject	Nature	Code	Teaching Scheme In hours per week			Credit
				L	T	P	
1	Genetic engineering and Biotechnology	Core Course-XIII		4			4
2	Genetic engineering and Biotechnology (Practicals)	Core Course- XIII (Practical)				4	2
3	Immunology	Core Course-XIV		4			4
4	Immunology (Practicals)	Core Course-XIV (Practical)				4	2
5	DSE-III	DSE-III					4
6	DSE-III (Practical)	DSE-III					2
7	DSE-IV	DSE-IV					4
8	DSE-IV (Practical)	DSE-IV					2
				Total Credit			30

**Total Credit = 142**