

Kazi Nazrul University, Asansol

Curriculum for B.Sc. Honours in Physiology [Choice Based Credit System]

Semester-I

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	<ul style="list-style-type: none">• Cell biology and genetics• Biophysical principles• Enzymes	Core Course-I		5	1	0	6
2	<ul style="list-style-type: none">• Biochemistry of carbohydrates and lipids• Biochemistry of proteins, nucleic acids	Core Course-II		4	0	0	4
3	<ul style="list-style-type: none">• Qualitative Biochemistry• Identification of food adulterants	Core Course-II Practical		0	0	4	2
4	GE-I [Preferably Zoology/chemistry]	GE					4/5
5	GE-I Lab/Tutorial	GE					2/1
6	EVS	AECC					4
Total Credit =22							

Semester-II

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	<ul style="list-style-type: none"> • Blood and other body fluids • Respiration 	Core Course III		4	0	0	4
2	Hematology	Core Course-III Practical		0	0	4	2
3	<ul style="list-style-type: none"> • Cardiovascular system • Regional circulations 	Core Course-IV		4	0	0	4
4	<ul style="list-style-type: none"> • Histology – fresh tissue preparation • Chromosome isolation and karyotyping 	Core Course-IV Practical		0	0	4	2
5	GE-II [Preferably Zoology]	GE					4/2
6	GE-II Lab/Tutorial	GE					2/1
7	Eng/MIL	AECC					2
				Total Credit =20			

Semester-III

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	<ul style="list-style-type: none"> • Muscle physiology • Nerve physiology 	Core Course-V		4	0	0	4
2	<ul style="list-style-type: none"> • Permanent slides • Paper chromatography , TLC 	Core Course-V Practical		0	0	4	2
3	<ul style="list-style-type: none"> • Digestive system, • Renal physiology • Skin and body temperature 	Core Course-VI		4	0	0	4
4	Analytical biochemistry: blood, urine and food	Core Course-VI Practical		0	0	4	2
5	Nervous System	Core Course VII		4	0	0	4
6	Histology – tissue preparation, and staining	Core Course-VII Practical		0	0	4	2
7	GE-III	GE					4/5
8	GE-III Lab/Tutorial	GE					2/1
9	SEC –I	AEEC-I					2
Total Credit =26							

Semester-IV

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	<ul style="list-style-type: none"> • General sensation • Vision • Gustation and Olfaction • Audition 	Core Course-VIII		4	0	0	4
2	<ul style="list-style-type: none"> • Experiments on smooth muscle by Dales apparatus • Anthropometric measurements 	Core Course-VIII Practical		0	0	4	2
3	<ul style="list-style-type: none"> • Molecular biology • Instrumentation and biochemical Techniques in physiology • Biostatistics • Computer and its application 	Core Course IX		4	0	0	4
4	Human experiments	Core Course-IX Practical		0	0	4	2
5	<ul style="list-style-type: none"> • Carbohydrate metabolism • Metabolism of amino acid and purine and pyrimidine • Lipid metabolism and reactive oxygen species • Biological oxidation 	Core Course X		4	0	0	4
6	<ul style="list-style-type: none"> • Experiments on Microbiology • Environmental biology 	Core Course-X Practical		0	0	4	2
7	GE-IV	GE					4/5
8	GE-IV Lab/Tutorial	GE					2/1
9	SEC –II	AEEC-II					2
Total Credit = 26							

Semester-V

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	<ul style="list-style-type: none"> • Endocrinology • Chronobiology 	Core Course-XI		4	0	0	4
2	Diet survey	Core Course-XI Practical		0	0	4	2
3	<ul style="list-style-type: none"> • Reproductive physiology • Developmental biology & neonatal physiology • Microbiology & Immunology 	Core Course XII		4	0	0	4
4	<ul style="list-style-type: none"> • Biostatistics • Computer application 	Core Course-XII Practical		0	0	4	2
5	DSE –I	DSE-I					4/5
6	DSE –I / Lab Tutorial	DSE-I					2/1
7	DSE –II	DSE-II					4/5
8	DSE –II Lab/ Lab Tutorial	DSE-II					2/1
				Total Credit = 24			

Semester-VI

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	<ul style="list-style-type: none"> • Social physiology • Geriatric physiology • Nutrition and dietetics • Vitamin and minerals 	Core Course-XIII		4	0	0	4
2	Nutritional status and growth <ul style="list-style-type: none"> • Work physiology and ergonomics 	Core Course-XIII Practical Core Course XIV		0	0	4	2
3	<ul style="list-style-type: none"> • Sports physiology • Human and environment 			4	0	0	4
4	Project	Core Course-XIV Practical		0	0	4	2
5	DSE –III	DSE-III					4/5
6	DSE –III / Lab Tutorial	DSE-III					2/1
7	DSE –IV	DSE-IV					4/5
8	DSE –IV Lab/ Lab Tutorial	DSE-IV					2/1
				Total Credit =24			

Total Credit: 142

Curriculum For B.Sc. Program with Physiology [Choice Based Credit System]

Semester-I

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	DSC 1A <ul style="list-style-type: none"> • Cellular Physiology & Biophysical principles • Biochemistry and Metabolism • Digestive system 	Core Course-I		4	0	0	4
2	DSC 1A Lab Histology	Core Course-I Practical		0	0	4	2
3	DSC 2A [other discipline]	Core Course-II					6
4	DSC 3A [other discipline]	Core Course-III					6
5	EVS	AECC					4
				Total Credit =22			

Semester-II

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	DSC 1B <ul style="list-style-type: none"> • Blood, body fluids and immune system • Cardiovascular system • Respiratory system 	Core Course-IV		4	0	0	4
2	DSC 1B Lab Biochemistry	Core Course-IV Practical		0	0	4	2
3	DSC 2B [other discipline]	Core Course-V					6
4	DSC 3B [other discipline]	Core Course-VI					6
5	English	AECC					2
				Total Credit =20			

Semester-III

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	DSC 1C <ul style="list-style-type: none"> • Nerve-muscle physiology • Nervous system • Excretory system and skin 	Core Course-VII		4	0	0	4
2	DSC 1C Lab Hematology	Core Course-VII Practical		0	0	4	2
3	DSC 2C [other discipline]	Core Course-VIII					6
4	DSC 3C [other discipline]	Core Course-IX					6
5	Skill enhancement Course [Physiology]	SEC-I					2
Total Credit =20							

Semester-IV

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	DSC 1D <ul style="list-style-type: none"> • Sensory physiology • Endocrine system • Reproductive physiology 	Core Course X		4	0	0	4
2	DSC 1D Lab Human Experiments	Core Course-X Practical		0	0	4	2
3	DSC 2D [other discipline]	Core Course-XI					6
4	DSC 3D [other discipline]	Core Course-XII					6
5	Skill enhancement Course [Physiology]	SEC-2					2
Total Credit =20							

Semester-V

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Skill enhancement Course [Physics]	SEC-3					2
2	Discipline Specific Elective-1 (Theory) [Physiology]	DSE -1A					4/5
	Lab / Tutorial [Physiology]	DSE-1A					2/1
3	Discipline Specific Elective-2 (Theory) [Physiology]	DSE -2A					4/5
	Lab / Tutorial	DSE-2A					2/1
4	Discipline Specific Elective-3 (Theory) [Physiology]	DSE -3A					4/5
	Lab / Tutorial	DSE-3A					2/1
Total Credit =20							

Semester-VI

Sr. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			credit
				L	T	P	
1	Skill enhancement Course [Physics]	SEC-4					2
2	Discipline Specific Elective-4 (Theory)	DSE -1B					4/5
	Lab / Tutorial	DSE-1B					2/1
3	Discipline Specific Elective-5 (Theory)	DSE -2B					4/5
	Lab / Tutorial	DSE-2B					2/1
4	Discipline Specific Elective-6 (Theory)	DSE -3B					4/5
	Lab / Tutorial	DSE-3B					2/1
Total Credit =20							

Total Credit: 122