

PDM UNIVERSITY

Faculty of Life Sciences **Department of Biochemistry** **B.Sc. (Hons.) Biochemistry**

THREE YEAR FULL TIME PROGRAMME



PDM UNIVERSITY BHADURGARH
DELHI- NCR



Note: Syllabi applicable for students seeking admission in the B.Sc. (Hons.) Biochemistry Course from the academic year 2018

Details of Course: B.Sc. (Hons.) Biochemistry

Course Structure Credits (Theory + Practical)

I Core Courses (14 Papers)	14 x 04 = 56
Core Course Practicals	14 x 02 = 28
Minor projects	01 x 02 = 02
Major Projects	01 x 04 = 04

II Elective Courses (08 Papers)

a. Discipline Specific Electives DSE (03 Papers)	03 x 04 = 12
Discipline Specific Electives Practicals	03 x 02 = 06
b. Generic Electives / Interdisciplinary (04 Papers)	04 x 04 = 16
Generic Electives / Interdisciplinary Practicals	04 x 02 = 08

III Ability Enhancement Courses (AEC)

a. English	01 x 02 = 02
b. Environmental Sciences	01 x 02 = 02
c. Foreign Language	02 x 02 = 04
d. Yoga	01 x 01 = 01
e. Aptitude	02 x 02 = 04
f. Professional Communications	02 x 02 = 04
g. Value Education	01 x 02 = 02

IV Skill Enhancement Course	02 x 02 = 04
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Total Credits = 155

B.Sc. (Hons.) Biochemistry
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PROGRAMME STRUCTURE

	Module Code	Module Type	Module Name	Marks			Credits
				Internal	External	Total	
1st Sem	BIOC1101	Core I	Molecules Of Life	50	100	150	4
	BIOC1102	Core I (P)	Molecules Of Life Lab	25	50	75	2
	BIOC1103	Core II	Cell Biology	50	100	150	4
	BIOC1104	Core II (P)	Cell Biology Lab	25	50	75	2
	STAT0301	Generic Elective I	Descriptive Statistics	50	100	150	4
	STAT0302	Generic Elective I (P)	Descriptive Statistics Lab	25	50	75	2
	ENGL0103	AEC	English Communications	25	50	75	2
	LANF0101 LANF0102 LANF0103	AEC	Foreign Language-I French German Spanish	25	50	75	2
			Total	275	550	825	22
2nd Sem	BIOC1105	Core III	Proteins	50	100	150	4
	BIOC1106	Core III (P)	Proteins Lab	25	50	75	2
	BIOC1107	Core IV	Enzymes	50	100	150	4
	BIOC1108	Core IV (P)	Enzymes Lab	25	50	75	2
	STAT0303	Generic Elective II	Biostatistics	50	100	150	4
	STAT0304	Generic Elective II (P)	Biostatistics Lab	25	50	75	2
	ENVS0101	AEC	Environmental Science	25	50	75	2
	LANF0104 LANF0105 LANF0106	AEC	Foreign Language-II French German Spanish	25	50	75	2
			Total	275	550	825	22
3rd Sem	BIOC2101	Core V	Metabolism Of Carbohydrates And Lipids	50	100	150	4
	BIOC2102	Core V (P)	Metabolism Of Carbohydrates And Lipids Lab	25	50	75	2
	BIOC2103	Core VI	Membrane Biology And Bioenergetics	50	100	150	4
	BIOC2104	Core VI (P)	Membrane Biology And Bioenergetics Lab	25	50	75	2
	BIOC2105	Core VII	Metabolism Of Amino Acids And Nucleotides	50	100	150	4
	BIOC2106	Core VII (P)	Metabolism Of Amino Acids And Nucleotides Lab	25	50	75	2
	STAT0305	Generic Elective III	Computational statistics	50	100	150	4
	STAT0306	Generic Elective III (P)	Computational statistics Lab	25	50	75	2
	MGMT0103	SEC I	New Venture planning- Entrepreneurship	25	50	75	2
	VALU0118	AEC	Yoga	25	25	50	1
			Total	350	675	1025	27

4 th Sem	BIOC2107	Core VIII	Human Physiology	50	100	150	4
	BIOC2108	Core VIII (P)	Human Physiology Lab	25	50	75	2
	BIOC2109	Core IX	Gene Organisations, Replication And Repair	50	100	150	4
	BIOC2110	Core IX (P)	Gene Organisations, Replication And Repair Lab	25	50	75	2
	BIOC2111	Core X	Hormone : Biochemistry And Function	50	100	150	4
	BIOC2112	Core X (P)	Hormone : Biochemistry And Function Lab	25	50	75	2
	STAT0307	Generic Elective IV	Applied Statistics	50	100	150	4
	STAT0308	Generic Elective IV (P)	Applied Statistics Lab	25	50	75	2
	VALU0109	AEC	Value Education	25	50	75	2
	CSEN0103	SEC II	Basics of Information Technology	25	50	75	2
			Total	350	700	1050	28
5 th Sem	BIOC3101	Core XI	Concept In Genetics	50	100	150	4
	BIOC3102	Core XI (P)	Concept In Genetics Lab	25	50	75	2
	BIOC3103	Core XII	Gene Expression	50	100	150	4
	BIOC3104	Core XII (P)	Gene Expression Lab	25	50	75	2
	BIOC3105	Core	Minor Group Project	50	50	100	2
	BIOC3201	DSE I	Nutritional Biochemistry	50	100	150	4
	BIOC3202	DSE I (P)	Nutritional Biochemistry Lab	25	50	75	2
	BIOC3203	DSE II	Basic Microbiology	50	100	150	4
	BIOC3204	DSE II (P)	Basic Microbiology Lab	25	50	75	2
	VALU0119	AEC	Aptitude-I	25	50	75	2
	VALU0123	AEC	Professional Communications-I	25	50	75	2
			Total	400	750	1150	30
6 th Sem	BIOC3106	Core XIII	Genetic Engineering And Biotechnology	50	100	150	4
	BIOC3107	Core XIII (P)	Genetic Engineering And Biotechnology Lab	25	50	75	2
	BIOC3108	Core XIV	Immunology	50	100	150	4
	BIOC3109	Core XIV (P)	Immunology Lab	25	50	75	2
	BIOC3110	Core	Major Individual Project	100	100	200	4
	BIOC3205	DSE III	Advanced Cell Biology	50	100	150	4
	BIOC3206	DSE III (P)	Advanced Cell Biology Lab	25	50	75	2
	VALU0136	AEC	Aptitude-II	25	50	75	2
	VALU0140	AEC	Professional Communications-II	25	50	75	2
		Total	375	650	1025	26	
		Grand Total after six semesters	2025	3875	5900	155	