

DAV UNIVERSITY, JALANDHAR



Scheme of Courses for Bachelor of Science - Biochemistry (Honours)

(Program ID – 2)

Course Scheme for Semesters 1-6

Course Scheme Applicable to Admissions in 2015

Semester 1

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BCH101	Biomolecules	4	1	0	4	Core
2.	ZOO101	Animal Diversity I	4	1	0	4	Core
3.	ENG151A	English Communication	3	0	0	3	AECC
4.		Generic Elective I	4	0	0	4	Generic Elective I
5.	BCH102	Biomolecules Laboratory	0	0	3	2	Core
6.	ZOO102	Animal Diversity I Laboratory	0	0	3	2	Core
7.	ENG152	English Communication Laboratory	0	0	2	1	AECC
8.		Generic Elective I Laboratory	0	0	3	2	Generic Elective I
		Total	15	2	11	22	

Generic Electives (Student has an option to choose any one elective and its corresponding laboratory course)

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BOT131	Plant Diversity	4	0	0	4	Generic Elective I
2.	BOT132	Plant Diversity Laboratory	0	0	3	2	Generic Elective I
3.	ZOO301	Fundamentals of Animal Development	4	0	0	4	Generic Elective I
4.	ZOO302	Fundamentals of Animal Development Laboratory	0	0	3	2	Generic Elective I

L: Lecture

T: Tutorial

P: Practical

AECC: Ability Enhancement Compulsory Course

Semester 2

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BCH103	Metabolism	4	0	0	4	Core
2.	EVS100	Environmental Studies	4	0	0	4	AECC
3.	SGS107	Human Values and General Studies	3	0	0	3	AECC
4.	ZOO103	Animal Diversity II	4	0	0	4	Core
5.		Generic Elective II	4	0	0	4	Generic Elective II
6.	BCH104	Metabolism Laboratory	0	0	3	2	Core
7.	ZOO104	Animal Diversity II Laboratory	0	0	3	2	Core
8.		Generic Elective II Laboratory	0	0	3	2	Generic Elective II
		Total	19	0	9	25	

Generic Electives (Student has an option to choose any one elective and its corresponding laboratory course)

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	CHE157	General Chemistry - I	4	0	0	4	Generic Elective II
2.	CHE158	General Chemistry - I Laboratory	0	0	3	2	Generic Elective II
3.	PHY155A	Modern Physics	4	0	0	4	Generic Elective II
4.	PHY156	Modern Physics Laboratory	0	0	3	2	Generic Elective II

L: Lecture

T: Tutorial

P: Practical

AECC: Ability Enhancement Compulsory Course

Semester 3

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BCH213	Fundamentals of Genetics	4	0	0	4	Core
2.	BCH215	Introduction to Clinical Biochemistry	4	0	0	4	Skill Enhancement Elective (SEC)
3.	BCH216	Membrane Biology and Bioenergetics	4	0	0	4	Core
4.	MIC111	Introduction to Microbiology	4	0	0	4	Discipline-Specific Elective (DSE)
5.		Generic Elective III	4	0	0	4	Generic Elective III
6.	BCH214	Fundamentals of Genetics Laboratory	0	0	3	2	Core
7.	BCH217	Membrane Biology and Bioenergetics Laboratory	0	0	3	2	Core
8.	MIC112	Introduction to Microbiology Laboratory	0	0	3	2	Discipline-Specific Elective (DSE)
9.		Generic Elective III Laboratory	0	0	3	2	Generic Elective III
		Total	20	0	15	28	

Generic Electives (Student has an option to choose any one elective and its corresponding laboratory course)

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BOT241	Plant Physiology and Metabolism	4	0	0	4	Generic Elective III
2.	BOT242	Plant Physiology and Metabolism Laboratory	0	0	3	2	Generic Elective III
3.	MIC221	Microbial Physiology	4	0	0	4	Generic Elective III
4.	MIC222	Microbial Physiology Laboratory	0	0	3	2	Generic Elective III

L: Lecture

T: Tutorial

P: Practical

Semester 4

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BCH218	Proteins and Enzymes	4	0	0	4	Core
2.	BTY121	Cell Biology	4	0	0	4	Core
3.	BTY241	Molecular Biology	4	0	0	4	Core
4.	BCH220	Bioinformatics	4	0	0	4	Skill Enhancement Course (SEC)
5.		Generic Elective IV	4	0	0	4	Generic Elective IV
6.	BCH219	Proteins and Enzymes Laboratory	0	0	3	2	Core
7.	BTY122	Cell Biology Laboratory	0	0	3	2	Core
8.	BTY242	Molecular Biology Laboratory	0	0	3	2	Core
9.		Generic Elective IV Laboratory	0	0	3	2	Generic Elective IV
		Total	20	0	12	28	

Generic Electives (Student has an option to choose any one elective and its corresponding laboratory course)

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	CHE257	General Chemistry - II	4	0	0	4	Generic Elective IV
2.	CHE258	General Chemistry - II Laboratory	0	0	3	2	Generic Elective IV
3.	CHE115	Organic Chemistry - I	4	0	0	4	Generic Elective IV
4.	CHE116	Organic Chemistry – I Laboratory	0	0	4	2	Generic Elective IV

L: Lecture
T: Tutorial
P: Practical

Semester 5

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BCH323	Introduction to Nutritional Biochemistry	4	0	0	4	Discipline-Specific Elective (DSE)
2.	BCH325	Molecular Basis of Infectious and Non-infectious Diseases	4	0	0	4	Core
3.	ZOO257	Human Physiology	4	0	0	4	Core
4.	BTY353	Recombinant DNA Technology	4	0	0	4	Core
5.	BCH324	Introduction to Nutritional Biochemistry Laboratory	0	0	3	2	Discipline-Specific Elective (DSE)
6.	BCH326	Molecular Basis of Infectious and Non-infectious Diseases Laboratory	0	0	3	2	Core
7.	ZOO258	Human Physiology Laboratory	0	0	3	2	Core
8.	BTY354	Recombinant DNA Technology Laboratory	0	0	3	2	Core
		Total	19	0	9	25	

L: Lecture
T: Tutorial
P: Practical

Semester 6

S.No.	Paper Code	Course Title	L	T	P	Credits	Course Type
1.	BCH327	Fundamentals of Immunology	4	0	0	4	Core
2.	BCH329	Tools and Techniques in Life Sciences	4	0	0	4	Core
3.	BCH330	Advanced Cell Biology	4	0	0	4	Discipline-Specific Elective (DSE)
4.	BCH203	Endocrinology	4	0	0	4	Core
5.	BCH328	Fundamentals of Immunology Laboratory	0	0	3	2	Core
6.	BCH331	Advanced Cell Biology Laboratory	0	0	3	2	Discipline-Specific Elective (DSE) Laboratory
7.	BCH204	Endocrinology Laboratory	0	0	3	2	Core
		Total	16	0	9	22	

L: Lecture
T: Tutorial
P: Practical