

# DAV UNIVERSITY, JALANDHAR



## **Scheme of Courses for Master of Science - Biochemistry (Honours)**

**(Program ID – 36)**

**Course Scheme for Semesters 1-4**

**Course Scheme Applicable to Admissions in 2015**

**DAV UNIVERSITY, JALANDHAR****Semester 1**

<b>S.No.</b>	<b>Paper Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Course Type</b>
1.	BCH501	Bioanalytical Techniques	4	1	0	4	<b>Core</b>
2.	BTY511	Molecular Biology	4	1	0	4	<b>Core</b>
3.	BTY513	Cell Biology	4	1	0	4	<b>Core</b>
4.	BCH524	Principles of Biochemistry	4	0	0	4	<b>Core</b>
5.	BCH503	Bioanalytical Techniques Laboratory	0	0	3	2	<b>Core</b>
6.	BTY512	Molecular Biology Laboratory	0	0	3	2	<b>Core</b>
7.	BTY514	Cell Biology Laboratory	0	0	3	2	<b>Core</b>
8.	BCH525	Principles of Biochemistry Laboratory	0	0	3	2	<b>Core</b>
		<b>Total</b>	<b>16</b>	<b>3</b>	<b>12</b>	<b>24</b>	

**L: Lectures T: Tutorial P: Practical Cr: Credits**

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**Semester 2**

<b>S.No.</b>	<b>Paper Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Course Type</b>
1.	BTY551	Recombinant DNA Technology	4	0	0	4	<b>Core</b>
2.	BCH525	Genetics and Genomics	4	0	0	4	<b>Core</b>
3.	BTY525	Biostatistics	4	0	0	4	<b>Core</b>
4.	BTY526	Biostatistics Laboratory	0	0	3	2	<b>Core</b>
5.	BCH526	Genetics and Genomics Laboratory	0	0	3	2	<b>Core</b>
6.	BTY555	Recombinant DNA Technology Laboratory	0	0	3	2	<b>Core</b>
7.		Departmental Elective I	4	0	0	4	<b>Departmental Elective</b>
8.		Open Elective I	4	0	0	4	<b>Open Elective I</b>
		<b>Total</b>	<b>20</b>	<b>0</b>	<b>9</b>	<b>26</b>	

**L: Lectures T: Tutorial P: Practical**

**Departmental Electives: Choose from any theory course and the accompanying laboratory course.**

<b>S.No.</b>	<b>Paper Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Course Type</b>
1.	BCH528	Biology of Cancer	4	0	0	4	<b>Departmental Elective</b>
2.	BCH627	Regulation of Gene Expression	4	0	0	4	<b>Departmental Elective</b>

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**Semester 3**

<b>S.No.</b>	<b>Paper Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Course Type</b>
1.	BCH521	Computational Techniques for Biologists	4	1	0	4	<b>Core</b>
2.	BCH601	Biochemical and Environmental Toxicology	4	0	0	4	<b>Core</b>
3.	BCH625	Concepts in Immunology	4	0	0	4	<b>Core</b>
4.	BCH622	Critical Review of Scientific Literature	2	0	0	2	<b>Core</b>
5.	BCH522	Computational Techniques for Biologists Laboratory	0	0	3	2	<b>Core</b>
6.	BCH609	Biochemical and Environmental Toxicology Laboratory	0	0	3	2	<b>Core</b>
7.	BCH626	Concepts in Immunology Laboratory	0	0	3	2	<b>Core</b>
8.	BCH614	Project – I	0	0	0	2	<b>Core</b>
8.		Departmental Elective II	4	0	0	4	<b>Departmental Elective</b>
		<b>Total</b>	<b>18</b>	<b>1</b>	<b>12</b>	<b>26</b>	

**L: Lectures T: Tutorial P: Practical**

**Departmental Electives: Choose from any theory course and the accompanying laboratory course.**

<b>S.No.</b>	<b>Paper Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Course Type</b>
1.	BCH629	Principles of Neurobiology	4	0	0	4	<b>Departmental Elective</b>
2.	BCH605	Plant Biochemistry	4	0	0	4	<b>Departmental Elective</b>

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Semester 4

S.No.	Paper Code	Course Title	L	T	P	Cr	Course Type
1.	BCH615	Project - II	0	0	0	8	Core
2.	BCH521	Principles of Cell Signaling	4	0	0	4	Core
3.	BCH603	Clinical Biochemistry	3	0	0	3	Core
4.	BCH607	Nutritional Biochemistry	4	1	0	4	Core
5.	BCH604	Clinical Biochemistry Laboratory	0	0	2	1	Core
6.	BCH608	Nutritional Biochemistry Laboratory	0	0	3	2	Core
7.		Open Elective II	4	0	0	4	Open Elective
		<b>Total</b>	<b>15</b>	<b>1</b>	<b>5</b>	<b>26</b>	

**L: Lectures T: Tutorial P: Practical**