



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in the light of NEP-2020
Department of Life Science/Biotechnology
B.Sc. (Major - Biotechnology)
Semester I (2026 - 2029)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME						L	T	P	CREDITS
			Marks	THEORY			PRACTICAL					
				END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BSBTC101	Major	Introduction to Biomolecules and Metabolism	Max	60	20	20	30	20	4	0	2	6
			Min	24	16		14	9				

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; *Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

COURSE OBJECTIVES:

The student will have ability to:

1. Conferring basic knowledge about biomolecules
2. The course will give basic knowledge of structure and function of carbohydrates, proteins, lipid and nucleic acids
3. Understanding of how enzymes and metabolites in the living system work to synthesize different biomolecules and produce energy.
4. Comprehensive knowledge about biochemical pathways involved in intermediary metabolism and regulation of carbohydrates, protein, lipid, and nucleic acid

COURSE ALIGNMENT WITH UNSDG:

The Course aims to fulfill the United Nations Sustainable Development Goals, **SDG 4 (Quality Education)**.

COURSE OUTCOMES:

After completion of the course, the student will be able to:

- CO1** An understanding of structural and functional fundamentals of carbohydrates, protein, lipid, and nucleic acid.
- CO2** Acquire the knowledge of the mechanism and the importance of enzymes
- CO3** Understanding of the major metabolic processes in the living system.
- CO4** Demonstrate the knowledge of laboratory practices and analytical procedures in biochemistry

TEACHING PEDAGOGY:

- T1** Classroom teaching (white board), Power Point Presentations, Interactive lectures, Inquiry-based teaching
- T2** ABL activities, Assignments, Flip Class/ Seminars, Quizzes, Oral Viva-voce examination

ASSESSMENT TOOLS:

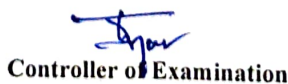
- ATL1** Activity Based Learning
- ATL2** Midterm Exams


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Practical: C - Credit: *Teacher Assessment

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- ATL3 Flip Class
 ATL4 Seminar Presentation
 ATL5 Assignments
 ATL6 Poster
 ATL7 Oral Viva-voce examination

PREREQUISITES:

Basic knowledge of Intermediate Biology

SYLLABUS:

Module	Descriptors/Topics	Hours	Assessment Tools
Unit - I	Chemical composition of living matter, Carbohydrates: classification of monosaccharides. Di, tri and polysaccharides, their functions in energy storage and cell structure; Homo & Hetero Polysaccharides, Glyco-conjugates; glycoproteins, proteoglycans and glycolipids. Lipids: Structure and functions -Classification, nomenclature and properties of fatty acids	10	Quiz Mid-term Exam Assignment
Unit - II	Proteins: primary, secondary, tertiary and quaternary structure; Ramchandran plot and Protein folding. Nucleic acids: Structure and properties of DNA and RNA; Double helical model of DNA structure A, B and Z form of DNA.	10	Quiz Mid-term Exam Assignment
Unit - III	Enzymes - nomenclature and classification. Enzyme kinetics and enzyme inhibition; Regulatory enzymes, Vitamins and co-enzymes: Structure, regulation of biochemical reactions and function of water-soluble vitamins; Fat soluble Vitamins A, D, E and K.	12	Quiz Mid-term Exam Assignment


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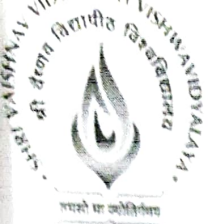
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Unit – IV	Glycolysis, citric acid cycle and energy generation; Pentose phosphate pathway and its regulation, Gluconeogenesis, Glycogenolysis and glycogen synthesis, Electron Transport Chain, Oxidative phosphorylation.	8	Quiz Mid-term Exam Assignment
Unit – V	Lipid Metabolism: beta oxidation of fatty acid, biosynthetic pathway for triacylglycerols, Protein metabolism: Synthesis and degradation of amino acids – transamination and deamination reactions., AI in designing new molecules	8	Quiz Mid-term Exam Assignment
Total Hours	Total Hours	48	

ADDITIONAL RESOURCES

A. Value addition to course content/ Skill enhancement content:

<https://nptel.ac.in/courses/104103121>

<https://youtu.be/c-EBH0tuoI4?si=v0uvzrocBa9WPB3W>

B. Remedial classes for slow learners:

As per the SOP for slow and fast learners.

SUGGESTED READINGS:

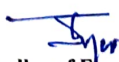
Textbooks

Books:

1. Textbooks T1. J. L. Jain, Sanjay Jain and Nitin Jain. Fundamentals of Biochemistry. S Chand Publications
2. Donald Voet, Judith G. Voet, Charlotte W. Pratt (2018). Voet's Principles of Biochemistry (5th Ed), Wiley
3. David L. Nelson, Michael M. Cox (2021). Lehninger Principles of Biochemistry (8th Ed.), W H Freeman & Co
4. Lubert Stryer, Jeremy M. Berg, John L. Tymoczko, Gregory J. Gatto Jr. (2019) Biochemistry (9th Ed.) – W. H. Freeman & Co.
5. Zubey G. L. Parson. W. W. (1995) Principles of Biochemistry - Brown (William C.) Co, U.S.


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Suggested e- resources (Websites/e- books)

<https://openstax.org/details/books/biology-2e>
<https://microbenotes.com/category/biochemistry/>

BSBTC101(P): LIST OF PRACTICAL

	Title	CO Mapping
1.	Preparation of reagents	CO4
2.	Demonstration of pH meter	CO4
3.	Separation of leaf fragments by paper chromatography	CO4
4.	Qualitative estimation of Carbohydrate by Benedict Test	CO4
5.	Qualitative estimation of Carbohydrate by Fehling Test	CO4
6.	Qualitative estimation of Carbohydrate by Molish Test	CO4
7.	Qualitative estimation of Lipids by Iodine Test	CO4
8.	Qualitative estimation of Protein by Xanthoproteic test	CO4
9.	Effect of pH on enzyme activity	CO4
10.	Effect of temperature on enzyme activity	CO4

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COURSE ARTICULATION MATRIX (MAPPING OF COs WITH POs)

Course Outcomes	Correlation with POs										Correlation with PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PSO1	PSO2	PSO3
CO1	2	1	2	-	3	1	1	-	1	-	3	2	1
CO2	2	2	2	1	2	1	1	-	1	1	2	1	1
CO3	2	1	2	2	2	1	1	1	2	1	2	-	3
CO4	2	3	3	3	3	1	1	-	-	-	-	-	-

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T1 Classroom teaching (white board), Power Point Presentations, Interactive lectures, Inquiry-based teaching

T2 ABL activities, Assignments, Flip Class/ Seminars, Quizzes, Oral Viva-voce examination

Experiential learning: Project Based Learning (PBL) and Case Studies

Module	Name	Experiment/ABL/PBL	Bloom's Taxonomy
I	Analysis Identification and qualitative analysis of carbohydrates, proteins, and lipids.	Experiment	Remembering, Understanding
II	Problem-based learning on biomolecules in diagnostics, therapeutics, and biotechnology	PBL	Understanding, Applying, Analyzing

ASSESSMENT TOOLS:

ATL1 Quiz

ATL2 Activity Based Learning

ATL3 Midterm Exams

ATL4 Flip Class

ATL5 Seminar Presentation

ATL6 Assignments

ATL7 Poster

ATL8 Oral Viva-voce examination

ATL9 Industrial Visit Report


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Basic understanding of Intermediate Biology

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Unit – II	Proteins: primary, secondary, tertiary and quaternary structure; Ramchandran plot and Protein folding. Nucleic acids: Structure and properties of DNA; Double helical model of DNA structure A, B and Z form of DNA.	10	Quiz, Seminar Presentation Assignments Midterm Exams
Unit – III	Vitamins and co-enzymes: Structure, regulation of biochemical reactions and function of water-soluble vitamins; Fat soluble Vitamins A, D, E and K. AI in Drug Discovery: Using AI for virtual screening and designing new molecules.	9	Activity Based Learning Seminar Assignments
Unit – IV	Glycolysis, citric acid cycle and energy generation; Pentose phosphate pathway and its regulation, Electron Transport Chain, Oxidative phosphorylation.	8	Quiz, Activity Based Learning Seminar Assignments


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Unit – V	Lipid Metabolism: Fatty Acid Metabolism, Biosynthesis of saturated fatty acids, Protein Metabolism: Amino Acid Catabolism, Transamination and deamination reactions.	8	Activity Based Learning Seminar Assignments
Total Hours		45	

ADDITIONAL RESOURCES

A. Value addition to course content/ Skill enhancement content: <https://nptel.ac.in/courses/104103121>
<https://youtu.be/c-EBH0tuoI4?si=v0uvzrocBa9WPB3W>

B. Remedial classes for slow learners:

As per the SVVV SOP for slow and fast learners.

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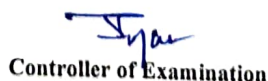
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<https://microbenotes.com/category/biochemistry/>

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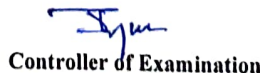
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1.	Preparation of reagents	CO4
2.	Demonstration of pH meter	CO4
3.	Separation of leaf fragments by paper chromatography	CO4
4.	Qualitative estimation of Carbohydrate by Benedict Test	CO1, CO4
5.	Qualitative estimation of Carbohydrate by Fehling Test	CO1, CO4
6.	Qualitative estimation of Carbohydrate by Molish Test	CO1, CO2
7.	Qualitative estimation of Lipids by Iodine Test	CO2, CO4
8.	Qualitative estimation of Protein by Xanthoproteic test	CO2, CO4


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CO4	2	3	3	3	3	1	1						


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