

Marudhar Kesari Jain College for Women, Vaniyambadi PG & Research Department of Biochemistry Bridge Course Syllabus 2022-2023

Course Name: Career Perspectives of Biochemistry

COURSE OBJECTIVE: To Provide Elementary Knowledge/Overview of Structure and Functions and Metabolism of Biomolecule. Explain the Structure and Biochemical Functions of Different Cell Organelles of a Eukaryotic Cell.

UNIT - I: : INTRODUCTION ABOUT BIOCHEMISTRY

Scope and applications of Biochemistry. Specialized areas in Biochemistry.

Course outcome: Understand the principles of various fields of Bio-chemistry and Biology (organic chemistry, analytical chemistry, biochemistry, genetics, metabolism, and molecular

UNIT -II: BIOMOLECULES

- Carbohydrates
- Proteins
- Lipids
- Nucleic acids
- Vitamins and
- Minerals.

Course outcome: Biomolecular Sciences majors will be able to demonstrate foundational knowledge in Biomolecular science, including an understanding of:

- The relationship between the properties of macromolecules and cellular activities.
- The relationship between cellular activities and biological responses.
- Cell metabolism, chemical composition, physiochemical and functional organization of organelles.

UNIT -III: HEMATOLOGY

Composition and general functions of blood. Structure and functions of Hemoglobin. Normal values of Blood constituents.

Course outcome:

- Understand red cell disorders
- Understand both established information and recent clinical advances in coagulopathies, anticoagulant and thrombolytic therapies
- Understand blood and marrow morphology and hematopathology

Understand both established information and recent clinical advances in immunohematology, bone marrow transplantation, and hematopoietic growth factors.

UNIT -IV: : IMMUNOLOGY AND PHYSIOLOGY

Antigen, Antibody, Immunity-Immune cells, Types of Immunity. Human organs- Heart, lungs, Brain, Kidney & Liver

Course outcome:

- This course gives an overview on the immune system including organs, cells and receptors
- The students learns about molecular basis of antigen recognition, hypersensitivity reaction, antigen-antibody reactions
- The course develops in the student an appreciation for principles of immunology and its applications in treating human diseases
- The paper covers the working of internal organ and system.
- The students will be exposed to anatomy of different organs
- Paper helps the students to understand the physiological functions of the biological systems

UNIT -V: JOB OPPORTUNITIES IN BIOCHEMISTRY

Values of Higher education for job opportunities. Biotechnologist, Research Scientist, Clinical Scientist, Research Associates, Biomedical Scientist, Pharmacologist and Laboratory Technician.

Course outcome:

Expose the students to a wide range of careers that combine biology, plants and medicine.

- Develop as independent thinkers who are responsible for their own learning
- Develop transferable quantitative skills
- Be able to work with others demonstrating leadership and collaborative skills
- Apply modern instrumentation theory and practice to biochemical problems
- Recognize potential laboratory safety concerns and address them using appropriate techniques
- Produce scientific reports formatted for peer-reviewed publication, using the primary literature
- Present the results, conclusions, and relevance of scientific experiments to a specific audience

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Marudhar Kesari Jain College for Women, Vaniyambadi – 635 75 PG & Research Department of Biochemistry Academic year 2022-2023 Bridge Course -Time Table



Day order/Hot	ır 1	2				
1	Major	F	3 Major	4	5	
	(Dr.M.Charumathy) Major		(Dr.M.Punithavathi)	Communicative English	Skill	
II	(R.Malarkodi)	English	Major	Communicative	Skill	
III	Major	English	(Dr.M.Charumathy) Major	English		
	(M.Renuka)	grion	(Dr.M.Charumathy)	Communicative English	Skill	
IV	Major (R.Malarkodi)	English	Major	Communicative		
V	Major	English	(Dr.V.Devi)	English		
•	(M.Renuka)	2.1611311	Major (Dr.M.Punithavathi)	Communicative English	Skill	
VI	Major (Dr.V.Devi)	English	Major	Communicative	Skill	
			(R.Malarkodi)	English		

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TEACHING METHODOLOGY:

Traditional Blackboard, Power point presentation, Group Discussion, Demonstration, Team Exercise and Short Video

SUBJECT ALLOCATION

S. No	Unit	Faculty Name
1	Unit - I	Ms.R.Malarkodi
2	Unit - II	Ms.R.Malarkodi
3	Unit - III	Dr.M.Charumathy
4	Unit - IV	Ms.M.Renuka
5	Unit - V	Ms.M.Renuka

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MARUDHAR KESARI JAIN COLLEGE FOR WOMEN DEPARTMENT OF BIOCHEMISTRY BRIDGE COURSE PHOTOS 2022-2023







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BRIDGE COURSE ATTENDANCE 2022-2023

ACADEMIC YEAR : BIOCHEMISTRY : 2022-2023

CLASS

COURSE NAME : CAREER PERSPECTIVES OF BIOCHEMISTRY

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Marudhar Kesari Jain College for Women, Vaniyambadi Bridge Course Feedback



Department: Biochemistry Academic Year: 2022-2023 Class: I B.Sc.Biochemistry

Course Name: Career Aspects in Biochemistry

S.No	Name of the Student	Feedback
1	Nikhath Fathima. p. A	As we experienced pandemic, we lost most of topics in school, Bridge course helps to learn more things
2	Igra Maheen.K.	In bridge course classes, we went to know about our course deeply. We learned bource of our subject early.
3	Shafiya Samreen. A	freshned us for the new academic year.
4	Meenakshi-H	Bouidge Course session help us to gain more valuable to pice
5	Kauthika G.K.	It helped me to know the bartes of my subject.
6	Kawisni .T	In Bridge course Session we learned how to communicate in formal way with others
7	Madhumitha · 2	It was very asoful in reviewng the subject related topic in our subjects.
8	Prinjanka.s	It guies us the appropriate bene
9	Swetha. RU	We Learn basics of our subject
10	Gr. Grofala pringer	This enough related time helped in adoust with the new environment

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