JSS College for Women (Autonomous)

Department Biochemistry

Course Outcome

I Semester

Course code : GMA210	Course Title- chemical foundation of Biochemistry-1
Course Credits :04	Hours of teaching /week- 04
Exam Marks- 60	Formative Assessment Marks- 40

Course outcome:

• The course "Chemical Foundation of Biochemistry-1" typically covers the fundamental chemical

Principles that underlie the structure and function of living organisms. The following are

Some of the typical learning outcomes of this course:

• Describe the basic chemical properties of atoms, molecules, and ions.

- Explain the properties of water and its importance in living systems.
- Identify the major classes of biomolecules (carbohydrates, lipids, proteins, and nucleic acids) And describe their chemical structure and functions.
- Explain the basic principles of enzyme kinetics and the role of enzymes in biochemical

Reactions.

- Discuss the basic principles of metabolism and energy transfer in living systems.
- Describe the mechanisms of DNA replication, transcription, and translation.
- Explain the principles of Mendelian genetics and the molecular basis of genetic inheritance.
- By the end of the course, students are expected to have a solid understanding of the basic

Principles of biochemistry and molecular biology, and be able to apply this knowledge to

Analyze and solve problems related to living systems.

II SEMESTER

Course code : GMB210	Course Title- chemical foundation of Biochemistry-2
Course Credits :04	Hours of teaching /week- 04
Exam Marks- 60	Formative Assessment Marks- 40

Course outcome:

• The course "Chemical Foundation of Biochemistry-2" typically covers the fundamental chemical Principles that underlie the structure and function of living organisms. The following are Some of the typical learning outcomes of this course:

• Describe the basic chemical properties of atoms, molecules, and ions.

• Explain the properties of water and its importance in living systems.

• Identify the major classes of biomolecules (carbohydrates, lipids, proteins, and nucleic acids) and describe their chemical structure and functions.

• Explain the basic principles of enzyme kinetics and the role of enzymes in biochemical Reactions.

• Discuss the basic principles of metabolism and energy transfer in living systems.

• Describe the mechanisms of DNA replication, transcription, and translation.

• Explain the principles of Mendelian genetics and the molecular basis of genetic inheritance.

• By the end of the course, students are expected to have a solid understanding of the basic principles of biochemistry and molecular biology, and be able to apply this knowledge to analyze and solve problems related to living systems.