Semester	JAN 2022
Open to semester	2
Course code	**BI1213**
Course title	**Introduction to Biomolecules**
Credits	3 /
Course Coordinator & participating faculty (if any)	M.S. Madhusudhan*, Girish Ratnaparkhi, Nagaraj Balasubramanian, Aurnab Ghose
Nature of Course	Lectures and Lab
Pre-requisites	None
Objectives (goals, type of students for whom useful, outcome etc)	This course aims to introduce 1st year BS-MS students to biomolecules and how they function in living systems. This course is about how we can investigate these molecules and use them in turn to investigate about processes in living systems.
Course contents (details of topics /sections with no. of lectures for each)	Basic Biochemistry/Molecular Biology: 1. Water and pH (2) 2. Proteins (3) 3. Carbohydrates (3) 4. Nucleic acids (3) 5. Lipids (3) There would be experiments (recorded, if taught online) on each of these topics.
Evaluation /assessment	End-Sem Examination-40% Mid-Sem Examination-40% Others-20 for quizzes + vivas (to be decided according to whether teaching is online/offline)%
Suggested readings (with full list of authors, publisher, year, edn etc.)	1) Voet, D., Voet, J.G (2010). Biochemistry, 4th edition, Wiley 2) Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter (2007). Molecular Biology of the Cell, 5th Edition, Garland Science. 3) Lodish et al, Molecular Cell Biology 4) Lubert Stryer; Jeremy Berg; John Tymoczko; Gregory Gatto. Biochemistry 5) Larry Gonick and Mark Wheelis. The Cartoon Guide to Genetics