

Semester I Syllabus

Paper	Code	Lectures (h)	Credits earned	Code	Practical (h)	Credits earned
Paper 1: Fundamentals of Biology	GNKPSBI101	60	4	GNKPSBIP101	60	2
Paper 2: Bioinformatics and Sequence Analysis	GNKPSBI102	60	4	GNKPSBIP102	60	2
Paper 3: Biostatistics	GNKPSBI103	60	4	GNKPSBIP103	60	2
Paper 4: Introduction to Programming Languages and Databases	GNKPSBI104	60	4	GNKPSBIP104	60	2

Paper Name	Topics	Faculty Name
Paper 1: Fundamentals of Biology	Unit 1: Cell Biology	Dr. Gursimran Kaur Asst. Professor HOD, Dept. of Bioinformatics
	Unit 2: Structure of Biomolecules and their Metabolism	Ms. Rupal Mishra Research Scholar GNIRD
	Unit 3: Cell – Cell communication and Signal transduction	Mr. Vikas Jha SRF, NFB
	Unit 4: Enzyme Kinetics	
Paper 2: Bioinformatics and Sequence Analysis	Unit 1: Introduction to Bioinformatics	Ms. Aparna Patil Asst. Professor Dept. of Bioinformatics
	Unit 2: Biomolecular Databases	Ms. Aparna Patil Asst. Professor Dept. of Bioinformatics
	Unit 3: Sequence alignment and Algorithms	Ms. Aparna Patil Asst. Professor Dept. of Bioinformatics
	Unit 4: Molecular Phylogenetics	Ms. Aparna Patil Asst. Professor Dept. of Bioinformatics

GNKPSBI103: Biostatistics

- Basics of Mathematics
- Statistical Measures
- Random Variables and Bivariate Distribution
- An Introduction to statistical inference

GNKPSBI104: Introduction to Programming Languages and Databases

- Fundamentals of Computing and
introduction to Database systems
- Introduction to C++
- Advanced C++
- SQL

Class rules

Match the pictures correctly



Be on time



Unmute your microphone



Find a quiet place



Have materials close to you



Type your name before the session



Turn on your camera



Mute your microphone



Have a snack before or after the class



Wear proper Cloth

Lecture Timings : 7.30 am to 2 pm

Note:

Timing may vary depending on Visiting Faculty availability

Internal Marking[25 Marks]

- Assignment(Given by respective teachers)
- Internal Test/Exam
- Presentation Topics[Will be shared by next week]
- Compulsory Attendance
- All the communication will be via google classroom

Note:

Late submission won't be accepted.