

Department of Botany and Biotechnology
St. Xavier's College, Thumba
FYUGP in Botany and Biotechnology

Course basket

Stream - **Science**

Subject – **Botany and Biotechnology**

Discipline Specific Core/Elective Courses

Semester	Category	Course
1	DSC	Plant World I
	DSC	Essentials of Biotechnology
	DSC	Foundations of Biochemistry
2	DSC	Plant World II
	DSC	Fundamentals of Microbiology
	DSC	Biomolecules in living organisms
3	DSC	Histology and Reproductive Botany
	DSE	Ethnobotany & IPR
	DSC	Immunology
	DSC	Functional food and nutraceuticals

4	DSC	Lower Cryptogams, Phytopathology and Microbiology
	DSC	Molecular Biology
	DSE	Biophysics and Instrumentation
5	DSC	Angiosperm Morphology and Plant Systematics
	DSC	Cell biology and Evolutionary Biology
	DSC	Recombinant DNA Technology
	DSE	Food and Industrial Biotechnology
	DSE	Horticulture and Nursery Management
6	DSC	Plant Physiology
	DSC	Environmental Biotechnology
	DSC	Plant Biotechnology
	DSE	Phytochemistry and Drug Discovery
	DSE	Animal biotechnology
7	DSC	Plant Interaction and Defence Mechanism
	DSC	Bioinformatics
	DSE	Industrial Tissue Culture

	DSE	Food Microbiology
8	DSC	Online course
	DSC	Online course

General Foundation Courses

Semester	Category	Course
1	MDC	Nutritional biochemistry for health & fitness
2	MDC	Application of Artificial intelligence in Biomedical science
	MDC	Organic farming
	MDC	Food safety, preservation and quality management
3	VAC	Drug Abuse and Prevention
4	VAC	Phyto-nutraceuticals
	VAC	Science journalism
	VAC	Ecology and environmental studies
	SEC	Mushroom Cultivation
	SEC	Data science and biotechnology
5	SEC	Clinical research and data management

	SEC	Basic techniques in Biochemistry
6	SEC	Cell culture techniques
	SEC	Indoor Gardening and Terrarium Techniques

Internship/Projects

Semester	Category
8	Internship
	Capstone internship project in honours
	Research project in honours