



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Science

Department of Life Science

Generic Elective (GE) Under Graduate Courses

SEMESTER IV

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BTUG401	GE	Therapeutic Approaches in Cancer Treatment	60	20	20	0	0	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment shall be based following components: Quiz / Assignment / Project/ Participation in Class, given that no component shall exceed more than 10 marks.**

Course Objectives

1. Students will understand the basics of cancer.
2. Understand about the causes of cancer.
3. Knowledge about various therapeutic approaches of cancer

Course Outcomes:

4. Students will understand the basics of cell cycle and cell division stages of cancer.
5. Students will get insights into therapeutic approaches to cancer.

Unit 1:

UNDERSTANDING BASICS OF CANCER: Cell division: Mitosis and Meiosis, Cell Cycle and Check Points.

Unit 2:

DIFFERENT CAUSE OF CANCER: Physical factors, Chemical factors, biological factors

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BTUG401 Therapeutic Approaches in Cancer Treatment

Unit 3:

DIFFERENT STAGES OF CANCER: Metastasis, Stage 0, Stage I, Stage II, Stage III, Stage IV.

Unit 4:

CONVENTIONAL CANCER THERAPIES: Principles and limitations of Surgery for Cancer, Radiation Therapy for Cancer, Chemotherapy for Cancer.

Unit 5:

EMERGING THERAPIES OF CANCER: Immunotherapy of Cancer, Targeted therapy of Cancer, Hormone therapy of cancer, Bone marrow transplant for Cancer.

Books:

1. Molecular Biology of Cancer: Mechanism, Targets and Therapeutics by Lauren Pecorino. Oxford University Press.
2. Therapeutics approaches in cancer treatment. by Asma Saleem Qazi, Kanwal Tariq . 2023

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