



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Science

Department of Life Science

Generic Electives (GE) Under Graduate Courses

SEMESTER V

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*					
BTUGE04	GE	Cancer Biology	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. Overview of cancer from basic to clinical perspective.
2. Diagnosis, prevention and treatment of cancer.

Course Outcomes

1. Understanding types of cancer.
2. Understanding the methods for treatment of cancer.

UNIT I:

Introduction to Cancer: Cellular basis of cancer, Causes of Cancer, mechanisms underlying carcinogenesis, Signs and symptoms of Cancer.

UNIT II:

Types of cancer: Carcinoma, Sarcoma, Lymphoma, Blastoma, Benign and Malignant tumors, Metastasis, Stages of cancer.


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UNIT III:

Cancer Diagnosis: Biopsy, Blood test, X-rays, CT Scans, Endoscopy.

Cancer Prevention: Dietary, Medication, Vaccination

UNIT IV:

Cancer Treatment Strategies: Conventional therapies: Primary treatment, Adjuvant treatment, Surgery, Radiation therapy, Chemotherapy.

UNIT V:

Palliative treatment, Emerging technologies for cancer treatment: Immunotherapy, gene therapy, laser therapy, Photodynamic therapy, Alternative medicine.


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