



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Science

Department of Life Science

Generic Elective (GE) Post Graduate Courses

SEMESTER III

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*				
BTPG301	GE	Biological Evolution and Human Dominance	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. Understanding the origin of life and biological evolution
2. Understanding theories of evolution and biodiversity
3. Understanding human dominance through cognitive development

Course Outcomes:

1. Knowledge about origin of life
2. Knowledge about the theories of evolution
3. Understanding cognitive revolution and human dominance


Unit I


Atmosphere of Earth; Solar UV and Origin of Life.


Biodiversity in different eras

Unit II

Theories of Organic Evolution; Lamarckism and Darwinism.


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BTPG301 Biological Evolution and Human Dominance

Unit III

Gaia Hypothesis; Earth as a living system

Climate change due to human activities

Unit IV


Human species and spread of sapiens; Cognitive revolution; Agriculture revolution; Science, Technology and Industry.


Unit V

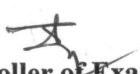
Language and writing; Currency of Exchange and economics; Religion and Science; Natural and Artificial Intelligence.

Books

1. On the origin of species - Charles Darwin 1859
2. The Mismeasure of man - Stephen Jay Gould 1982
3. Evolution - Donald Prothero 2007
4. Sapiens - Yuval Noah Harari 2011
5. The selfish gene - Richard Dawkins 2016


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