Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore



Shri Vaishnav Institute of Architecture/Planning

M.Plan (Urban Planning)

SEMESTER - I

S. N O.	Course Code	Course Area	Course Typol ogy	Course Name	TEACHI NG SCHEME / WEEK		1E		EXAMINATION SCHEME					
					L	Т	s	CREDITS	Two Term Exam (20%) (MST)	THEORY Teachers Assessm ent (20%) (SS)	End Sem Universit y Exam (60%) (ESUE)	STU Interna 1 Assess ment (50%) (IA)	Extern al Viva (50%) (EV)	TOTAL MARKS
1	GEMPLN 119	Urban Plannin g	Theory	Green Infrastructure	3	-	-	3	20	20	60	-	-	100

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S – Studio; 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 Educational Objectives (CEOs):

To understand the importance of green infrastructure in urban and regional contexts

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes. The students will be able to

- Assess the need of GI enhancement in varying contexts
- Calculate ecosystem values of green infrastructure networks
- Apply green infrastructure elements in development plans



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Syllabus

Unit I: Introduction

What is green infrastructure; Definitions and components; Evolution of theories; Scope of green infrastructure at urban regional and national scales; Advantages and limitations of GI

Unit II

Principles of Green Infrastructure

Land conservation in industrial age; The rise of green infrastructure as a strategic conservation tool; Green infrastructure principles; Contemporary Global approaches; Vertical farming; Carbon sequestration

Unit-III

Techniques of Need Assessment and Analysis

Introduction to SuDS Manual; Sustainable urban drainage systems (SuDS): Philosophy and approach; Applying the approach – SuDS design process; Suitability analysis for green infrastructure at urban and regional scales;

Unit-IV

Green Infrastructure Network Design

Basics of green infrastructure network design from exemplary global cases - Florida / Maryland approach; Worldwide Case studies, Potential tools for green infrastructure implementation; Ecosystem management; Watershed management; Adaptive management; Integrating green infrastructure into planning process

Unit-V

Sectoral co- benefits of Green Infrastructure

Green infrastructure and biodiversity; Environmental functions of forests, wetlands, and other open spaces; Flood mitigation; Urban forestry; Economic benefits; Economic value of natural systems; Making links to related efforts; Eco-system values of green infrastructure network;

9HRS

10HRS

8HRS

7HRS

8HRS



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Text Books:

1. Green infrastructure: linking landscapes and communities. Mark A., Benedict, Washington, DC Island Press, 2006

2. Green Infrastructure: A Landscape Approach. David C. Rouse, AICP and Ignacio F. Bunsterossa, American Planning Association, 2013

3. Green infrastructure: a landscape approach. Rouse, David C., Chicago APA Planners Press/Taylor & Fr, 2013

References:

- 1. Revising green infrastructure: concepts between nature and design. Czechowski, Daniel, Boca Raton CRC Press/Taylor & Francis, 2015
- 2. Global green infrastructure: lessons for successful policy-making, investment and management. Mell, Ian.,Oxon Routledge, 2016

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