

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Agriculture
Generic Elective Course, V semester

AGGE 109: Soil fertility management

AGGE 109: Soil fertility management		TEACHING & EVALUATION SCHEME							
Course Code	Course Name	THEORY			PRACTICAL		L	T	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment*	END SEM University Exam	Teachers Assessment*			
AGGE 109	Soil fertility management	60	20	20	00	00	4	0	4

Legends: L - Lecture; P – Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective:

To study soil fertility, fertilizers manures, and management of soil fertility

Course Outcomes:

1. Students will be able to understand the various types and methods of fertilizer application
2. Students will be able to understand the integrated management of soil fertility.

Unit-1: Organic manures: importance, types and method of preparation. Green/leaf manuring. Fertilizer recommendation approaches. Integrated nutrient management.

Unit-2: Chemical fertilizers: classification, composition and their properties, Soil amendments, Fertilizer Storage.


Unit-3: Soil fertility and plant nutrition. criteria of essentiality. Role, deficiency and toxicity symptoms of plant nutrients, Mechanisms of nutrient transport to plants. Plant nutrient availability.

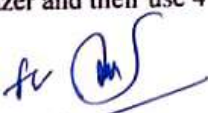
Unit-4: Soil fertility evaluation, Soil testing. Forms of nutrients availability in soil and plants. Plant nutrient analysis.


Unit-5: Indicator plants. Fertilizer recommendations for crops. Nutrient use efficiency (NUE).


Books:

1. Introductory Soil Science by D.K. Das
1. Soil Fertility and Nutrient Management (2011) by S.S.Singh, Kalyani Publishers, New, Delhi
2. FAO: Fertilizer and their use 4 TH Ed.


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