



**Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore**  
**Shri Vaishnav Institute of Agriculture**  
**Generic Elective course**

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		Theory			Practical		Credits		
		END SEM University Exam	Mid term exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	P	Total
GUAGRIPP502	Management of Diseases of Crop Plants	60	40	00	00	00	3	0	3

1. **Legends:** L - Lecture; P – Practical

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

**Objective:**

Basic knowledge of Plant Pathology

**Course Outcomes**

1. Student will be able to understand different diseases of plant and its cause
2. Student will be able to understand importance of management of Plant Diseases

**THEORY**

**UNIT I**

Symptoms, cause and management of major diseases of following crops:

Rice: Blast, Bacterial blight; Maize: Downy mildew, leaf spots; Groundnut: early and late leaf spots; Soybean: Rhizoctonia blight, bacterial spot, seed and seedling rot and mosaic; Pigeonpea: wilt and sterility mosaic; Guava: wilt and anthracnose

**UNIT II**

Symptoms, cause and management of major diseases of following crops:

Wheat: Rusts, loose smut, karnal bunt, powdery mildew, alternaria blight; Gram: wilt, grey mould and Ascochyta blight; Mango: anthracnose, malformation, bacterial blight and powdery mildew; Citrus: canker and gummosis

**UNIT III**

Symptoms, cause and management of major diseases of following crops:

Black & Green gram: Cercospora leaf spot, anthracnose and yellow mosaic; Pea: downy mildew,

powdery mildew and rust ; Cucurbits: downy mildew, powdery mildew, wilt Cotton: anthracnose, vascular wilt, and black arm

#### **UNIT IV**

Symptoms, cause and management of major diseases of following crops:

Cruciferous vegetables: Alternaria leaf spot and black rot; Brinjal: Phomopsis blight and fruit rot and Sclerotinia blight; Chilli: anthracnose and fruit rot, wilt and leaf curl Onion : purple blotch; Beans: anthracnose and bacterial blight

#### **UNIT V**

Symptoms, cause and management of major diseases of following crops:

Tomato: damping off, wilt, early and late blight, buck eye rot, leaf curl and mosaic; Okra: Yellow Vein Mosaic;; Coriander: stem gall; Marigold: Botrytis blight; Rose: dieback, powdery mildew and black leaf spot.

#### **Suggested Readings**

- G.N. Agrios (2005) Plant Pathology, Fifth Edition. Elsevier Academic Press.
- Rangaswami, G.K.Mahadevan.2001. Diseases of crop plants in India. Prentice Hall of India Pvt. Ltd., New Delhi
- Singh, R.S.2005. Plant Diseases. Oxford &IBH Publication, New Delhi