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## **PPATH- 211 Diseases of Field & Horticultural Crops & their Management-I 3(2+1)**

### **THEORY:**

Symptoms, etiology, disease cycle and management of major diseases of following crops:

#### **Field crops::**

Rice: Blast, brown spot, bacterial blight, sheath blight, khaira and tungro. Maize: Stalk rots, leaf blights and downy mildews. Sorghum: Grain smut and anthracnose. Bajra: Downy mildew and ergot. Groundnut: Tikka, collar rot and peanut clump virus. Soybean: Rhizoctonia blight and bacterial pustule. Pigeon pea: Sterility mosaic. Moong, urd and moth beans: Web blight and yellow mosaic. Castor: Phytophthora blight and bacterial blight. Guar: Bacterial blight and Alternaria blight. Sesamum: Stem & root rot and phyllody. Cotton: Wilt, root rot, bacterial blight and leaf curl.

#### **Horticultural crops:**

Guava: Wilt and zinc deficiency. Banana: Panama wilt, Sigatoka and bunchy top. Papaya: Foot rot, leaf curl, ring spot and root knot. Pomegranate: leaf spots and Bacterial blight. Date palm: Graphiola leaf spot. Coconut: Root rot, wilt, cadang cadang and bud rot. Tea: Blister blight and red rust. Coffee: Rust. Cucurbits: Powdery mildew, mosaic, Choanephora rot and root knot. Brinjal: Phomopsis blight and little leaf. Tomato: Damping off, bacterial wilt, early blight, leaf curl and root knot. Okra: Yellow vein mosaic. Ginger: Rhizome rot.

### **Practical:**

Identification and histopathological studies of following selected diseases of field and horticultural crops. Field visit for the diagnosis of field problems. Collection and preservation of plant diseased specimens for herbarium.

Maize: leaf blights and downy mildews. Sorghum: Grain smut and anthracnose. Bajra: Downy mildew and ergot. Groundnut: Tikka, collar rot and peanut clump virus. Pigeon pea: Sterility mosaic. Moong, urd and moth beans: Web blight and yellow mosaic. Castor: Bacterial blight. Guar: Bacterial blight and Alternaria blight. Sesamum: Phyllody. Cotton: Wilt, root rot, bacterial blight and leaf curl. Guava: zinc deficiency. Papaya: Leaf curl Pomegranate: leaf spots and Bacterial blight. Cucurbits: Powdery mildew, mosaic, Choanephora rot and root knot. Brinjal: Little leaf. Tomato: Damping off, early blight, leaf curl and root knot. Okra: Yellow vein mosaic. Date palm: Graphiola leaf spot.

Note: Students should submit 20 pressed and well-mounted specimens.

### **Lecture Schedule: Theory**

Symptoms, etiology, disease cycle and management of major diseases of following crops:

S.N.	Topic	No. of lectures
1.	Rice: Blast, brown spot, bacterial blight, sheath blight, khaira and tungro.	2
2.	Maize: Stalk rots, leaf blights and downy mildews.	2
3.	Sorghum: Grain smut and anthracnose.	1
4.	Bajra: Downy mildew and ergot.	1
5.	Groundnut: Tikka, collar rot and peanut clump virus.	2
6.	Soybean: Rhizoctonia blight and bacterial pustule.	2
7.	Pigeonpea: Sterility mosaic.	1
8.	Moong, urd and moth beans: Web blight and yellow mosaic.	2
9.	Castor: Phytophthora blight and bacterial blight.	1
10.	Guar: Bacterial blight and Alternaria blight.	2
11.	Sesamum: Stem & root rot and phyllody.	2
12.	Cotton: Wilt, root rot, bacterial blight and leaf curl.	2
13.	Guava: Wilt and zinc deficiency.	1
14.	Banana: Panama wilt, Sigatoka and bunchy top.	2
15.	Papaya: Foot rot, leaf curl, ring spot and root knot.	1
16.	Pomegranate: leaf spots and Bacterial blight.	1
17.	Date palm: Graphiola leaf spot. Coconut: Root wilt, cadang cadang and bud rot.	2
18.	Tea: Blister blight and red rust, Coffee: Rust.	1
19.	Cucurbits: Powdery mildew, mosaic, Choanephora rot and root knot.	1
20.	Brinjal: Phomopsis blight and little leaf.	1
21.	Tomato: Damping off, bacterial wilt, early blight, leaf curl and root knot.	1
22.	Okra: Yellow vein mosaic. Ginger: Rhizome rot	1

### Lecture Schedule: Practical

Identification and histopathological studies of following selected diseases of field and horticultural crops. Field visit for the diagnosis of field problems. Collection and preservation of plant diseased specimens for herbarium.

S.N.	Topic	No. of lectures
1.	Maize: leaf blights and downy mildews.	1
2.	Sorghum: Grain smut and anthracnose.	1
3.	Bajra: Downy mildew and ergot.	1
4.	Groundnut: Tikka, collar rot and peanut clump virus.	1
5.	Pigeon pea: Sterility mosaic.	1
6.	Moong, urd and moth beans: Web blight and yellow mosaic.	1
7.	Castor: Bacterial blight, Sesamum: Phyllody.	1

8.	Guar: Bacterial blight and Alternaria blight.	1
9.	Cotton: Wilt, root rot, bacterial blight and leaf curl.	1
10.	Guava: zinc deficiency.	1
11.	Papaya: Leaf curl	1
12.	Pomegranate: leaf spots and Bacterial blight.	1
13.	Cucurbits: Powdery mildew, mosaic, Choanephora rot and root knot	1
14.	Brinjal: Little leaf, Tomato: Damping off, early blight, leaf curl and root knot.	1
15.	Okra: Yellow vein mosaic.	1
16.	Date palm: Graphiola leaf spot	1

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