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**PPATH-221 Diseases of Field & Horticultural Crops & their Management-II 3(2+1)**

**Theory:**

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

Wheat: Rusts, loose smut, karnal bunt, flag smut and ear cockle & tundu. Barley: Stripe, covered smut and molya disease. Sugarcane: Red rot, whip smut, grassy shoot, ratoon stunting and Pokkah boeng. Lentil: Wilt. Mustard: Alternaria blight, white rust and Sclerotinia rot. Gram: Root rot, wilt and Ascochyta blight. Isabgol: Downy mildew. Coriander: Stem gall. Cumin: Wilt, powdery mildew and Alternaria blight. Fenugreek: Powdery mildew.

Horticultural crops:

Mango: Malformation and black tip. Citrus: Canker, dieback and gummosis. Grape vine: Downy mildew and anthracnose. Apple: Scab. Ber: Powdery mildew. Aonla: Rust. Potato: Late blight, black heart, golden nematode and leaf roll. Onion: Purple blotch. Chillies: Anthracnose and leaf curl. Cabbage: Alternaria leaf spot and black rot. Pea: powdery mildew. Carrot: Alternaria blight. Rose: Dieback and powdery mildew. Marigold: Blight.

**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. Wheat: Rusts, loose smut, karnal bunt and ear cockle. Barley: Stripe, covered smut and molya disease. Sugarcane: Red rot. Lentil: Wilt. Mustard: Alternaria blight, white rust and Sclerotinia stem rot. Gram: Root rot, wilt and Ascochyta blight. Isabgol: Downy mildew. Cumin: Wilt, powdery mildew and Alternaria blight. Fenugreek: Powdery mildew. Mango: Malformation Citrus: Canker, dieback Ber: Powdery mildew. Potato:

Late blight, black heart Onion: Purple blotch. Chillies: Anthracnose and leaf curl. Cabbage: Alternaria leaf spot and black rot. Pea: powdery mildew. Carrot: Alternaria blight. Rose: Dieback and powdery mildew.

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

**Lectures Schedule: Theory**

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

S.N.	Topic	No. of lectures
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1.	Wheat: Rusts	2
2.	Wheat: loose smut, karnal bunt, flag smut and ear cockle & tundu.	2
3.	Barley: Stripe, covered smut and molya disease.	2
4.	Sugarcane: Red rot, whip smut, grassy shoot, ratoon stunting and Pokk a boeng.	3
5.	Lentil: Wilt	1
6.	Mustard: Alternaria blight, white rust and Sclerotinia rot.	2
7.	Gram: Root rot, wilt and Ascochyta blight.	2
8.	Isabgol: Downy mildew, Coriander: Stem gall.	1
9.	Cumin: Wilt, powdery mildew and Alternaria blight, Fenugree Powdery mildew	2
10.	Mango: Malformation and black tip.	1
11.	Citrus: Canker, dieback and gummosis	1
12.	Grape vine: Downy mildew and anthracnose	1
13.	Apple: Scab	1
14.	Ber: Powdery mildew.	1
15.	Aonla: Rust.	1
16.	Potato: Late blight, black heart, golden nematode and leaf roll.	2
17.	Onion: Purple blotch.	1
18.	Chillies: Anthracnose and leaf curl	1
19.	Cabbage: Alternaria leaf spot and black rot	2
20.	Pea: powdery mildew	1
21.	Carrot: Alternaria blight.	1
22.	Rose: Dieback and powdery mildew. Marigold: Blight	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.	Wheat: Rusts, loose smut, karnal bunt and ear cockle.	1
2.	Barley: Stripe, covered smut and molya disease.	1
3.	Sugarcane: Red rot.	1
4.	Field visit to diagnose the diseases and collect of disease specimen	1
5.	Lentil: Wilt. Mustard: Alternaria blight, white rust and Sclerotinia stem rot.	1
6.	Gram: Root rot, wilt and Ascochyta blight.	1
7.	Isabgol: Downy mildew. Cumin: Wilt, powdery mildew and Alternaria blight.	1
8.	Field visit to diagnose the diseases and collect of disease specimen	1
9.	Fenugreek: Powdery mildew.	1

10.	Mango: Malformation Citrus: Canker, dieback	1
11.	Ber: Powdery mildew.	1
12.	Potato: Late blight, black heart Onion: Purple blotch. Chillies: Anthracnose and leaf curl.	2
13.	Cabbage: Alternaria leaf spot and black rot. Pea: powdery mildew.	2
14.	Carrot: Alternaria blight. Rose: Dieback and powdery mildew	1

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