



FACULTY OF AGRICULTURAL SCIENCES AND ALLIED INDUSTRIES

**DISEASES OF FIELD&HORTICULTURAL CROPS&
Management 1 PPA - 312**

LECTURE 04

1. NAME OF DISEASE – BACTERIAL BLIGHT OF POMEGRANATE

Pathogen-*Xanthomonas axonopodis* pv. *punicae*

Symptoms

- Small irregular water soaked spots appear initially on leaves and later turn dark brown with yellow halo
- Spots coalesce and form large necrotic patches
- Leaves distorted and malformed
- Severely infected young leaves are shed
- The bacterium attacks stem, branches and fruits also
- On the stem, the disease starts as brown to black spots around the nodes
- Girdling and cracking of nodes leading to break down of branches
- Brown to black oily spots are produced on the pericarp of fruit with L or Y shaped cracks
- Spots on fruits are raised with dark brown lesions of indefinite margins on the surface



Survival and spread

Primary: Bacterial cells in infected cuttings and plant debris

Secondary: Rain splashed bacterial cells

Favourable conditions

- Severe during August-November
- Intermittent rains
- High humidity and temp ranging from 20 to 27o C

Management

- Clean cultivation and strict sanitation in orchard
- Securing disease free planting material
- Spray B.M @1% along with antibiotic, Streptomycin 100 ppm or 0.01%