

# Lecture - 3 : Classification of phylum Arthropoda

Arthro-Joint, Poda –Foot

## The arthropods possess

- The segmented body
- Bilateral symmetry
- Paired jointed appendages usually terminates in a claws
- Chitinous exoskeleton
- Ventral nervous system
- Dorsal heart
- Open type of circulatory system

Phylum arthropoda is classified into 7 classes

- ✓ Onychophora (claw bearing) eg: peripatus
- ✓ Crustacea (crusta-shell) eg: prawns, crabs, wood louse
- ✓ Arachnida (Arachine-spider) eg: scorpion, spider, ticks, mites

- ✓ Chilopoda (chilo-lip, poda-legs) eg:centipedes
- ✓ Diplopoda (diplo-two,poda-legs) eg:millipedes
- ✓ Trilobita (an extinct group)
- ✓ Hexopoda (hexa-Six, poda-legs) eg:insects

## Characters of Class insecta :

1. Body divided in to head, thorax and abdomen
2. Possess three pairs of legs, hence the name  
Hexapoda
3. Presence of one or two pairs of wings
4. A pair of antennae
5. Respiration by means of internal air tubes known as  
trachea

6. **Genital opening** situated at the posterior end of the body

7. Presence of **metamorphosis** (incomplete/complete) during development

8. Possess **exoskeleton** made up of hard cuticle which plays important role for survival.

9. Excretion is mainly by **malpighian tubules** which help in maintaining ionic balance

# Female grasshopper

