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*Shaping Lives...
Empowering Communities...*

Center for Smart Agriculture

Production management of medicinal and aromatic crops



Module 3: Seed Treatment
Session 13: Methods



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Seed Treatment

Seed treatment is a “genetic term which does not specify the application method but indicates that specify the application method but indicates that the seeds are subjected to a compound the seeds are subjected to a compound nutrient, chemical, hormones) a process (such as wetting and drying) or to vigorous energy forms or to vigorous energy forms (such as heat, radiation, electricity, magnetism) etc. to enhance the planting value of seed”.



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Seed Treatment Methods

Seed Treatment Methods

- PESTICIDAL SEED TREATMENT
- PHYSICAL SEED TREATMENT



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Pesticidal Seed Treatment

Pesticidal Seed Treatment

- Seed Coating with chemical protectant
 - 1 Coating with chemical protectant
 - 2 Film coating
- Pelleting
 - Seed Priming
 - 1 Osmo priming
 - 2 Halo priming
 - 3 Solid Matrix Priming (SMP)



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Physical Seed Treatment

Physical Seed Treatment

- Solar Heat Treatment
- Hot Water Treatment
- Dry Heat Treatment
- Aerated Steam Treatment



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Different Types of Physical Treatments

Different Types of Physical Treatments :-

Radiation Temperature

Magnetic Microwave

Controlled Gaseous Atmosphere



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Different Types of Physical Treatments

Further research has intensified on
ionizing radiation,
controlled atmosphere,
cold treatment,
conventional hot air ,
radio frequency and microwave conventional hot air ,
radio frequency and microwave dielectric heating



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Thank You