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Massive Open Online Course

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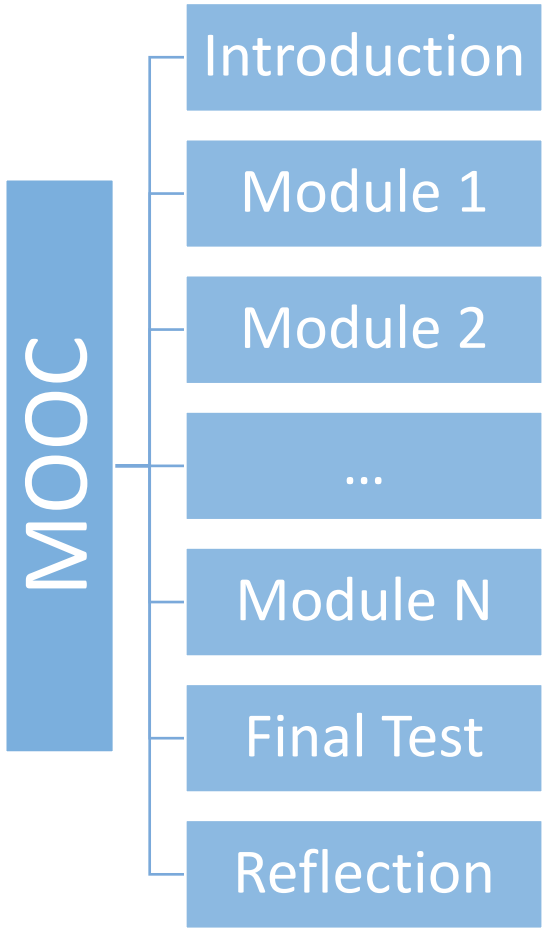
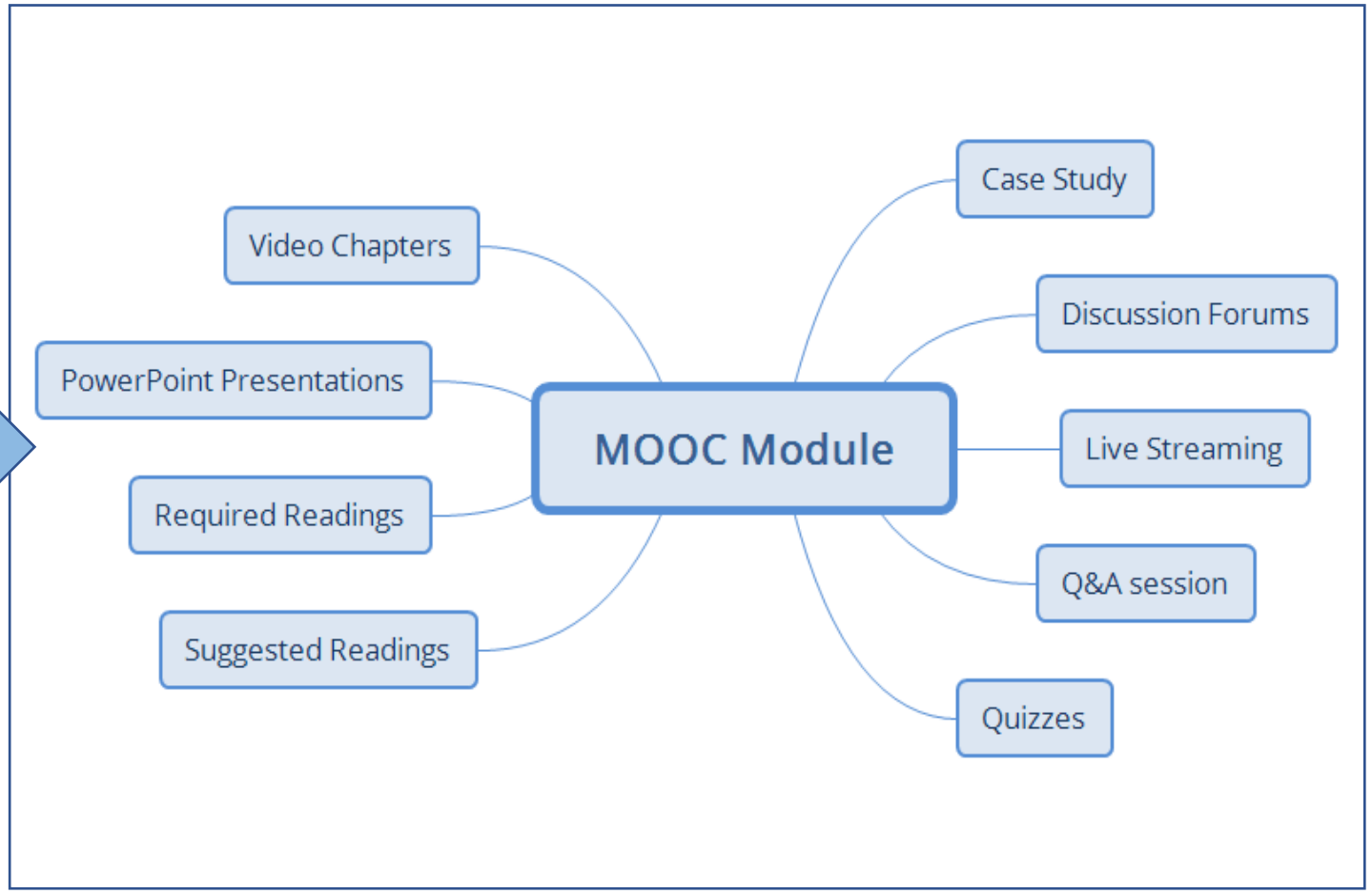
STRUCTURE OF A MOOC





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Structure of a Theoretical Part of the MOOC on Formation and Management of Soil Cover Water Regime in the Crop Fields

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1. The formation patterns of productive moisture supplies in the soil

- 1.1. Agro-hydrological properties of the soil
- 1.2. Productive moisture supplies in the soil
- 1.3. Water balance of the soil
- 1.4. Formation of soil moisture supplies during the cold period
- 1.5. Change in productive moisture supplies during the warm period
- 1.6. Types of annual variation of productive moisture supplies in the soil

2. The patterns of moisture exchange of the evaporative surface area with the ground air

- 2.1. Water evaporation by the soil
- 2.2. Methods for calculation of a total evaporation from the soil

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3. Demand of the crops for water

- 3.1. The soil moisture content being optimum for plants
- 3.2. The biological curve of water consumption
- 3.3. Critical periods in plants as a result of insufficient water supply

4. Land reclamation

- 4.1. Irrigated land reclamation
- 4.2. Calculation of irrigation norms and irrigation regimes
- 4.3. Land reclamation by drainage

List of references

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