

Mentor	Aman Sir	
Subject/Chapter	Soil Science/Fundamentals of Soil Science	
Lecture Time	2 PM - 3 PM	
Topic Name	Day & Date	Lecture Title
Introduction to Soil Science	Monday, Sep 22, 2025	Soil as a natural body – definition, functions, importance in agriculture, Pedological & Edaphological concepts of soil
	Tuesday, Sep 23, 2025	Rocks & Its classification
	Wednesday, Sep 24, 2025	Minerals & Its classification
	Thursday, Sep 25, 2025	Weathering –Processes
	Friday, Sep 26, 2025	Agents of Weathering
Soil Genesis	Monday, Sep 29, 2025	Soil Formation Factors
	Tuesday, Sep 30, 2025	Soil Forming Processes (Part-1)
	Wednesday, Oct 1, 2025	Soil Forming Processes (Part-2)
	Saturday, Oct 11, 2025	Soil Forming Processes (Part-2)
Soil Profile	Sunday, Oct 12, 2025	Soil Profile
Components of Soil	Monday, Oct 13, 2025	Components of Soil
Soil Physical Properties	Tuesday, Oct 14, 2025	Introduction-Sand, Silt, & Clay
	Wednesday, Oct 15, 2025	Soil Texture
	Thursday, Oct 16, 2025	Soil Structure
	Friday, Oct 17, 2025	Soil Density- Particle & Bulk
	Monday, Oct 27, 2025	Porosity
	Tuesday, Oct 28, 2025	Soil air – composition, gaseous exchange, role in plant growth
	Wednesday, Oct 29, 2025	Soil temperature – sources of heat, amount & flow of heat in soil, Effect on plant growth
	Thursday, Oct 30, 2025	Soil colour, soil consistence & plasticity
Soil Classification & Indian Soils	Friday, Oct 31, 2025	Soil Taxonomy – Principles & systems of classification (part-1)
	Monday, Nov 3, 2025	Soil Taxonomy – principles & systems of classification (part-2)
	Tuesday, Nov 4, 2025	Soil Taxonomy – principles & systems of classification (part-3)
	Thursday, Nov 6, 2025	Major soils of India (Part-1)
	Friday, Nov 7, 2025	Major soils of India (Part-2)
Soil Water	Saturday, Nov 8, 2025	Soil water retention
	Sunday, Nov 9, 2025	Soil water movement
	Monday, Nov 10, 2025	Soil water availability
Soil reaction – pH	Tuesday, Nov 11, 2025	soil acidity & alkalinity Buffering capacity & effect of pH on nutrient availability
Soil Colloids & Clay Minerals	Wednesday, Nov 12, 2025	Soil Colloids
	Thursday, Nov 13, 2025	Silicate clays – constitution & properties
Ion Exchange & Fertility	Friday, Nov 14, 2025	Ion exchange – cation exchange, anion exchange
	Monday, Nov 17, 2025	Cation Exchange Capacity (CEC), base saturation