DEPARTMENT OF SOIL AND WATER CONSERVATION ENGINEERING
(Mahamaya College of Agricultural Engineering & Technology Akbarpur AmbedkarNagar)
ACHARYA NARENDRA DEVA UNIVERSITY OF AGRICULTURE & TECHNOLOGY
KUMARGANJ, AYODHYA - 224229, UTTAR PRADESH

Overview:

The department of Soil and Water Conservation Engineering was established in the college in the year 2003. The M.Tech (SWCE) degree programme in agricultural engineering commenced from the session: 2012-13. The department offers courses in Soil and Water Conservation Engineering for under-graduate and post-graduate students Of Mahamaya College of Agricultural Engineering & Technology.

Vision/Objective:

The vision of the department is to become a premier and recognized Centre of excellence in teaching and research. The faculties of the department are actively engaged in providing quality education to the students for transforming their lives, and making them future professionals and academicians.

Mandates:

- To impart core and conceptual knowledge of soil and water conservation to the students.
- To inculcate scientific and innovative thinking in the students.
- To equip the students with various equipment for practical, and enhancing their practical skills.
- To provide the different aspects of soil and water conservation engineering.
- To provide global recognition to the post-graduate students through innovative research
- To have inter disciplinary knowledge, professional competence and personal traits of value to industries,

Faculty

S. No.	Name of Faculty	Designation
1.	Er. R. J. Singh	Associate Professor cum Head
2.	Dr. Vikas Kumar Singh	Asstt. Professor

Facilities and Infrastructure:

- **Classrooms and Laboratories**

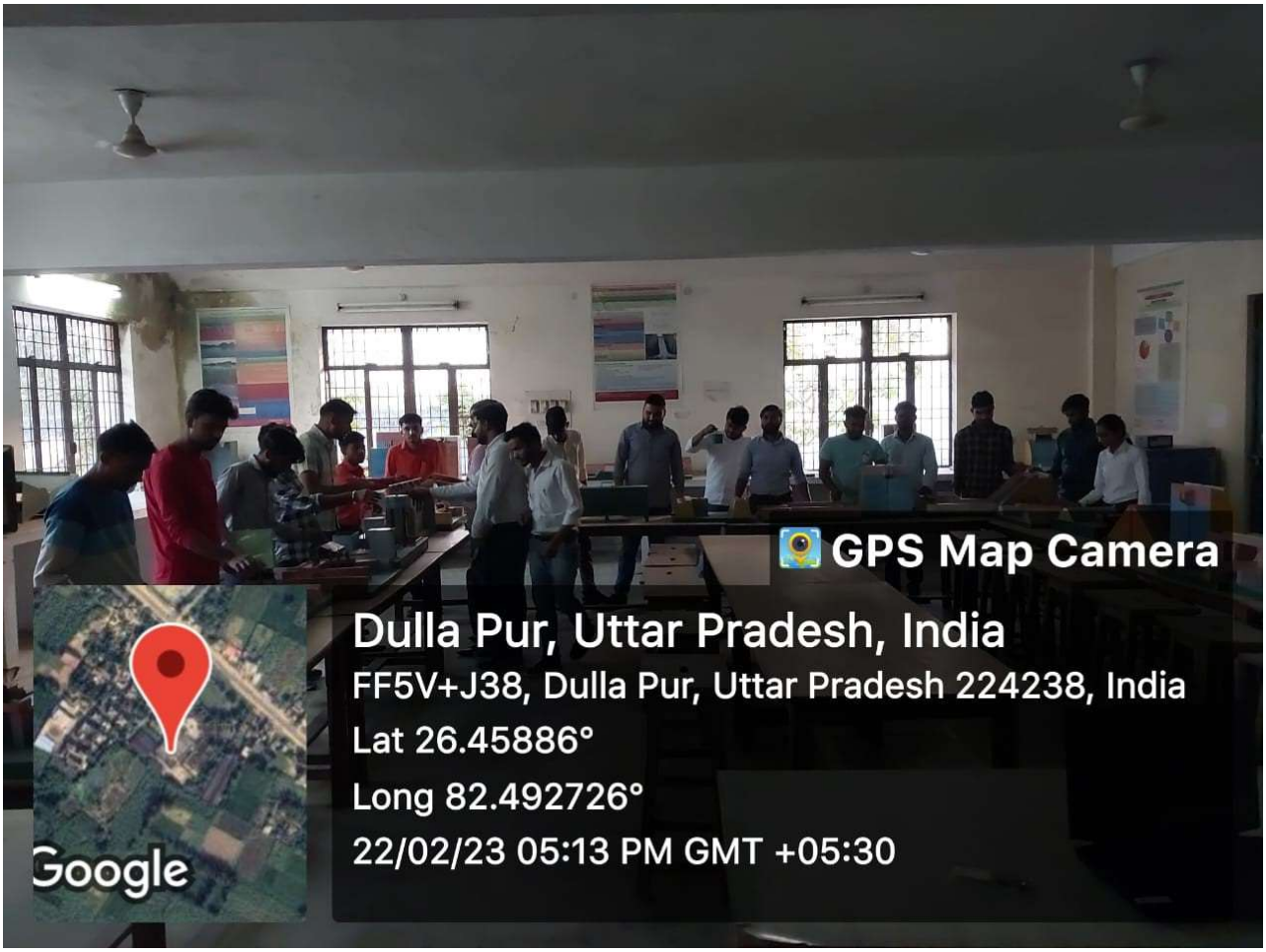
Equipments:

List of Instruments

S. NO.	INSTRUMENT	PURPOSE
1.	Float Type Recording Rain Gauge	To measure the precipitating rain in a given amount of time per unit area.
2.	Automatic Water Level Recorder	Designed for application requiring unattended, long-term monitoring of water level.
3.	Hot Air Oven	To sterilize the product.
4.	Sun Shine Recorder	To measure sunshine duration.
5.	Anemometer	To measure wind speed.
6.	Parshall Flumes	*To measure the flow of water in an open channel or non-pressurized pipe.*
7.	USWB Class-A Pan Evaporimeter	To measure evaporation from free water surface.
8.	Double Ring Infiltrometer	To determine the rate of infiltration of water into the soil.
9.	Sieve Shaker	To determine the percentage of each size of grain that is contained within a soil sample.
10.	Concrete Slump Test	Measures the consistency of fresh concrete before it sets.
11.	Constant Head Permeameter	To determine the permeability of granular soils like sands and gravels containing little or no silt.
12.	Crushing Strength Apparatus	Provides relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load.
13.	Bulk Density Core Cutter Apparatus	To determine the in-situ dry density of soil.
14.	Manual Post Hole Digger	To create an initial hole or deep hole to grow a plant or to install fence around agricultural field.

Models available in SWCE Lab

1. Gravity Dam
2. Spillway Gate
3. Coffer Dam
4. Tank Weir
5. Canal Regulator
6. Volute Syphon Spillway
7. River Head Work
8. Fish Ladder
9. Safe Water Supply from a Pond
10. Deep Tube Well
11. Visvesvaraya Gate
12. Sluice Gate
13. Canal Drop
14. Syphon Aqueduct
15. Level Crossing
16. Super Passage
17. Canal Intake
18. Step Well
19. Supressed Weir
20. Under Ground Sever
21. Silt Ejector
22. Sever Treatment Plant
23. Gibb's Module
24. Volute Syphon
25. Tank Sluice with Plug and Cistern
26. Drainage System
27. Saddle Syphon Spillway
28. Septic Tank
29. Aqueduct
30. Rapid Sand Filter
31. Deep Well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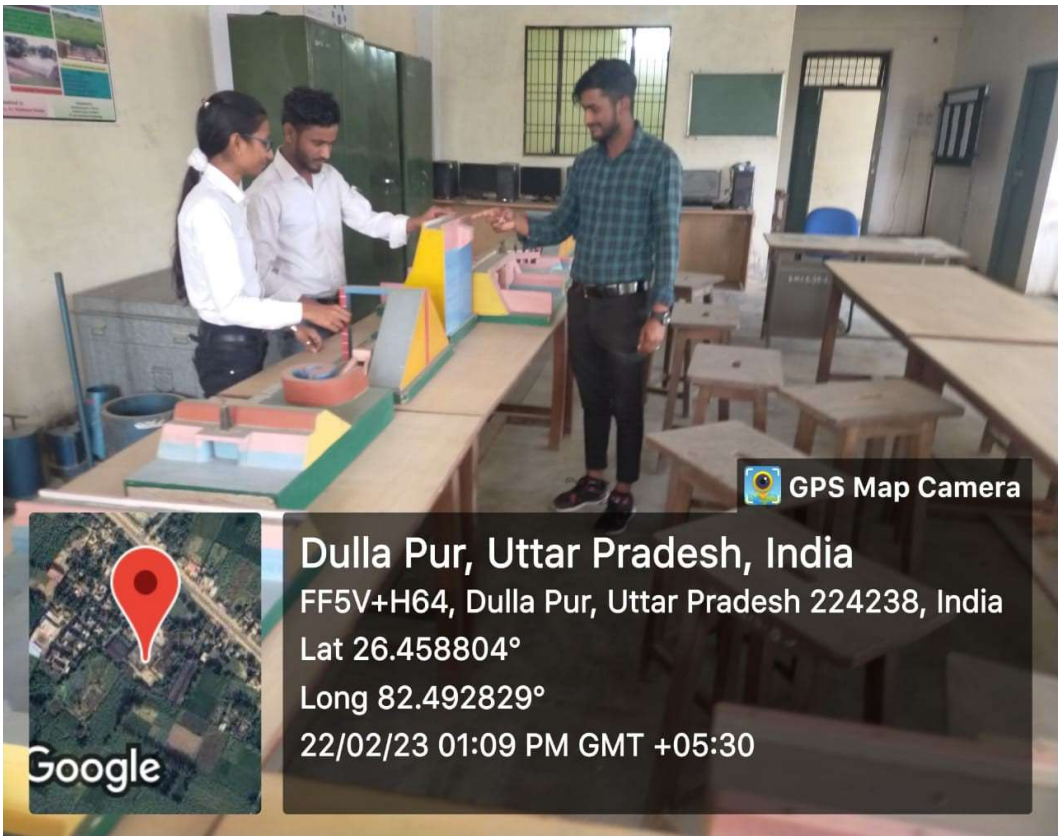
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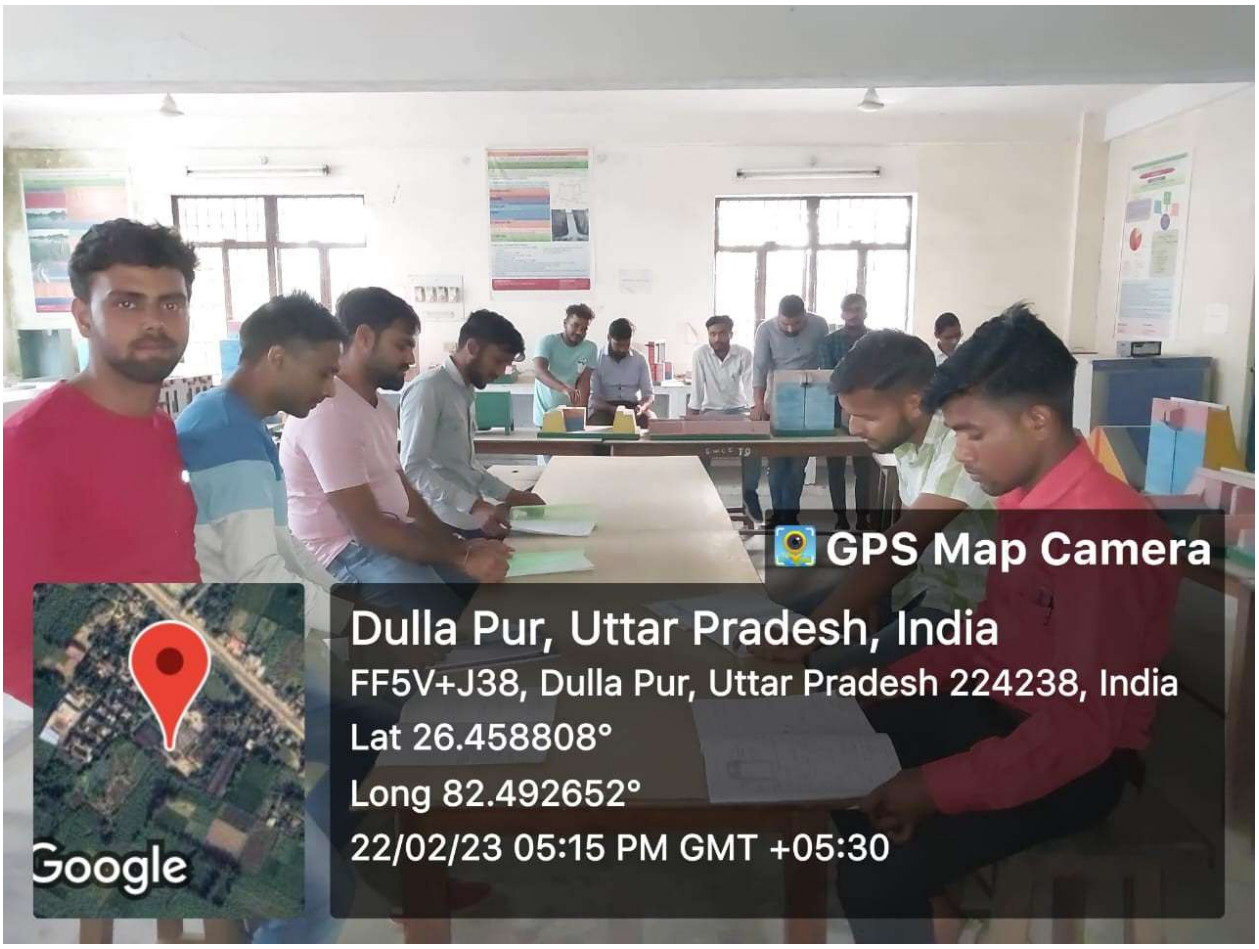
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