



Module PMRF-ISSS060/2025

## Introduction to Geosynthetic Applications

Name of the PMRF student

Ashesh Choudhury

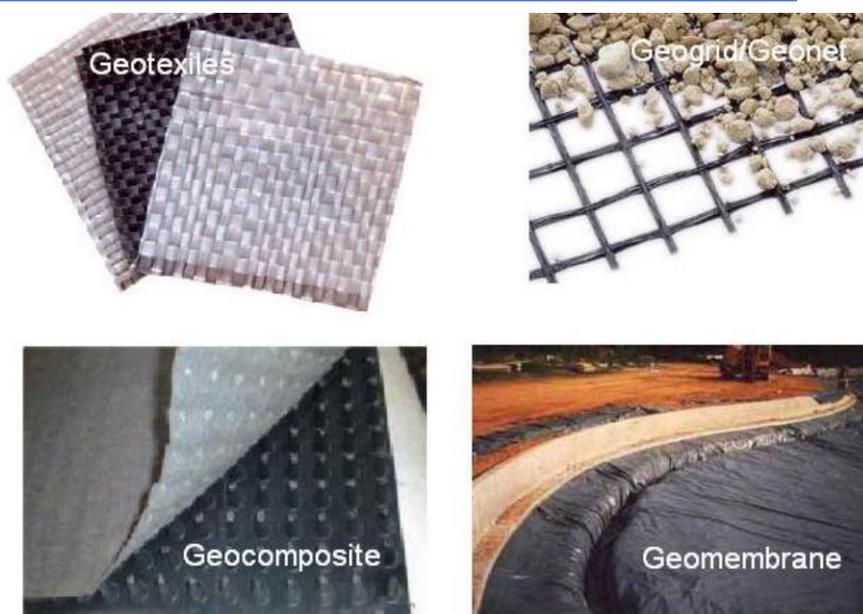
Required background of the students taught

**Civil Engineering:** Prior coursework in basic soil mechanics or geotechnical engineering is necessary.

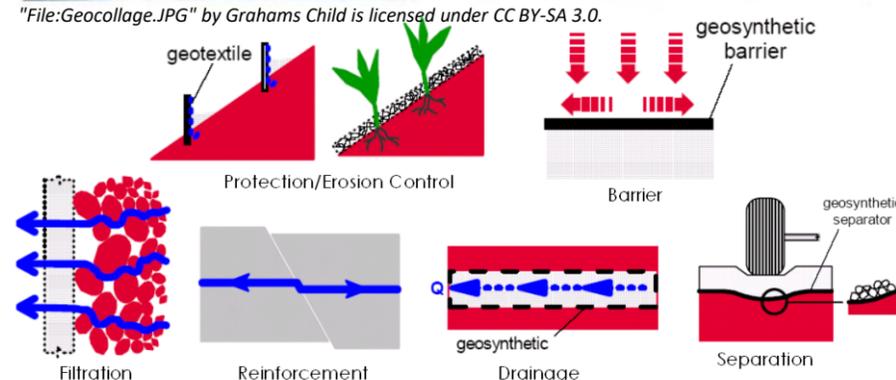
Details of the content of the module

- What are geosynthetics?
- Types and functions of different geosynthetics
- Different properties of geosynthetics
- Mechanism of reinforced soil
- Reinforced soil wall design
- Geotextile reinforcement for unpaved roads
- Bearing capacity of footings with geosynthetics
- Accelerated consolidation using PVD
- Filtration and drainage using geosynthetics
- Liners

**Note:** Due to the short duration of the course, only fundamental concepts will be covered. All design problems will be limited to an academic level and will not cover detailed professional design practices.



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Schedule of the module

**Start Date:** 21 July 2025

**End Date:** 27 July 2025

**Schedule:** Live lectures/problem-solving sessions of 2 hours daily (Time: 2:00 PM to 4:00 PM). Recordings will also be shared.

**Number of lectures:** 7

**Duration:** 14 hours

Meeting link: Will be shared later

Contact email ID: [issf.forum@gmail.com](mailto:issf.forum@gmail.com)

Registration link:  
<https://forms.gle/vDDEp41Ei7PKFneHA>