

Batch 2021–2025

Sl No.	Project Title	Factors considered	Relevant PO(s)	Relevant PSO(s)	SDGs addressed
1	Effect of flooding on properties of soil	Safety (foundation/embankment stability), environment (flood impact), sustainability (resilient design), standards (geotechnical testing codes)	PO1, PO2, PO4, PO6	PSO1, PSO2	SDG 11, SDG 13
2	Crash risk mapping & star rating of roads in Edapally	Safety (primary), standards (IRC/iRAP guidelines), ethics (public safety), cost (improvement prioritization), sustainability (safer transport systems)	PO2, PO3, PO6, PO10	PSO3	SDG 3, SDG 11
3	Sediment transport analysis of Muvattupuzha River Basin	Environment (river health), sustainability (watershed management), standards (hydraulic/sediment analysis methods)	PO1, PO2, PO4, PO6	PSO2	SDG 6, SDG 13
4	Rollover stability of trucks on reverse curves	Safety (vehicle stability), standards (road design/vehicle safety codes), cost (accident reduction), sustainability (reduced losses)	PO2, PO3, PO4, PO6	PSO1, PSO3	SDG 3, SDG 9
5	Slope stability of geogrid reinforced embankments	Safety (vehicle stability), standards (road design/vehicle safety codes), cost (accident reduction), sustainability (reduced losses)	PO1, PO2, PO3, PO4	PSO1	SDG 9, SDG 12
6	Pollution Potential Index (PPI) for dumpsites	Environment (pollution control), sustainability (waste management), ethics (public health), standards (environmental quality norms)	PO2, PO3, PO6, PO7	PSO2	SDG 11, SDG 12