21GGE502P - SOIL AND ROCK MECHANICS LAB										
Teaching Scheme					Examination Scheme					
L	T	P	C	Hours/Week	Theory			Practical		Total Marks
					MS	ES	IA	LW	LE/Viva	
0	0	2	1	1	0	0	0	50	50	100

LIST OF EXPERIMENTS **Hours: 10**

1. Determination of moisture content
2. Determination of Atterberg Limits
3. Determination of Particle size analysis
4. Determination of Maximum Dry Density and Optimum Moisture Content Using Proctor Compaction Test
5. Determination of Unconfined Compression Strength of the Soil and Rock specimens
6. Permeability Testing
7. Determination of RQD of rocks.
8. Determination of point load index strength of a given rock sample
9. Determination of porosity of rocks.
10. Determination of tensile strength of a rock sample using Brazilian method
11. Determination of shear strength of rocks using Triaxial Testing
12. Determination of slake durability of rocks

TEXT/REFERENCE BOOKS

1. Laboratory manual
2. Punmia B.C., “Soil Mechanics and Foundation Engg.”, 16th Edition Laxmi Publications Co., New Delhi.
3. Murthy V.N.S.,“Principles of Soil Mechanics and Foundation Engineering”, 4th Edition, UBS Publishers and Distributors, New Delhi, 1996