	Performed?	Use of graph	Studied?	Description	
Comapaction	P	Y(b/w wc and dry density)	Y	maximum point in the graph will provide you with maximum dry density and optimal water content	Easy
Direct Shear Test	P	Y(b/w normal stress and shear stress)	Y	After plotting the best-fit line, the slope in degree will provide the angle of shearing resistance and the intercept will provide soil cohesion.	
Field Density	P	N	Y		Easy
Permeability	P	N	Y	Calculate the hydraulic gradient carefully for constant head and in falling head, remember that sqrt of initial and final h reading gives the middle value for which the time duration is same from initial to middle and middle to final. L is the length of mold = 115mm and h is head loss from the soil sample.	
Seive Analysis and Hydrometer	P	Y(Calibration graph not req, Sieve analysis, hydrometer analysis)	Y	remember meniscus correction is positive and dispersing agent correction is neg, temp depends refer to slides.	
Consolidation	NP	Y(between time and deflection, void ratio and pressure)	Y	Taylor and Casagrande method	
UCS	NP	N	Y		Easy
Relative Density and SG	NP	N	Y		Easy
Consistency Limits	NP				