

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
7/8		Soil exploration importance	I	class Room		
		Terminology and planning				
3,4		Geophysical methods	I	class Room		
		Seismic, reflector electrical resistivity, types				
		of Boring				
7/8		Standard	I	power point		
		Penetration Test, Plate Load Test				
3,4		Spacing and depth of bore holes, stability	I	class Room		
		Location of bore holes, Boring records				
7/8		Soil sampling	II	Class Room		
		Methods of sam- pling, Types of samples and samples				
3,4		Cleaning of bore holes, preservation - recording, ship- ment of samples	II			

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7/8		Design considerations of foundations	II	class room		
		samples				
3,4		Types of shallow foundations	III	C.R		
7/8		Types of shear failure	III	C.R		
		General B.C. equation				
3,4		Terzaghi's B.C. theory and problems	III	C.R		
7/8		Meyerhof's theory and problems	III	C.R		
3/4		Skempton's theory and problems	III	C.R.		
7/8		IS Code equation and problems	III	C.R		
3/4		allowable bearing pressure based on S.F.	III	C.R.		
7/8		Types and design of foundations	IV	C.R		
		Design considerations including location and depth				



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3, 4		Proposing of footings.	IV	class Room		
		48 shaded footings				
7, 8		Proposing of	IV	C.R.		
		Combined footings				
3, 4		raft foundation	IV	C.R.		
		problems, flat to				
		foundations, beams				
		on elastic foundation				
7, 8		classification of piles	V	C.R.		
3, 4		fixed & free end	V	C.R.		
		and choice of				
		pile foundation				
7, 8		load carrying	VI	C.R.		
		Capacity of single				
		piles in groups				
3, 4		load carrying capacity of	V	C.R.		
		single pile				
		for pile				
		for pile				

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