Faculty of Technology												
School of Higher Education (Construction)												
Se	ession:		2015 / 2016 (second se	emester)								
SCHEME OF WORK / RECORD OF WORK (as ticked & dated)												
HIGHER NATIONALS in CIVIL ENG – unit 32 Engineering Geology & Soil Mechanics												
A	ngelo	Filomena		Tue	Tuesday pm class - HA CIVILS(YR 1)							
C	LASS CO	OMMENCI	NG Tueday 2nd th February 2016		sts	Practical Work	Associated tasks	PORTFOLIO TO BE SUBMITTED WITH THE FOLLOWING				
	Teac	Date	Topic to be covered in class	Type of Teaching to take place	Homework tasks and te							
	h week No.		Topic to be covered in class	(eg Pedagogic, Practical, Self Directed Research, Tutorial, Assessment)								
		28-	INDUCTION	INDUCTION								
	1	January	Introduction to the unit, assignment requirements									
	- 2	4- Feb	Classification of rocks	Identification of common rocks								
	3	11- Feb	Soils and rocks for construction	Characteristics of sand, gravel, crushed stone for construction								
	4		Half term									
	5	25- Feb	Soil description and classification- Current code of practice	Practice of soil classification								
	6	4- March	Site visit									

7	11- Mar	Soil properties – three phase model	Calculation of basic soil properties			
8	18- Mar	Soil density, moisture content, void ratio,	Calculation and practice			
9	25- Mar	Soil particle size analysis	Presentation of first assignment			
10	1 – April	Strength of soil - revisions	Calculations and revisions			
11		easter				
 12		easter				
13	22- Apr	Feedback on assignment Soil effective stress- influence of water	Lecture, practice			
	29- Apr	Working on second assignment	Calculations and practice			
14		Flow net- soil under hydrostatic conditions	Practice			
 15	6- May	Iculation and graphs, total stress, effective stress for soil in different conditions				
16	13-May	Geotechnical design parameters- common methods of determining soil strength				
17	20-May	Ground investigation and in-situ sampling	Practice			
18	27-May	Laboratory measurement	Practice and calculations			
19	3- June	Permeability – pumping test analysis				
20	10-June	Revision - Final assignment				