

SCHEME OF WORK / LESSON PLANNER

Session:

2015 / 2016

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YEAR LONG



NATIONAL DIPLOMA CONSTRUCTION

unit 10 --SURVEYING in Constr & Civil Eng

Teachw eek No.	Lesson Count	Date w/c	Topic to be covered in class	Type of Teaching to take place (eg Pedagogic, Practical, Self Directed Research, Tutorial, Assessment)	Special Care eg Differentiation, Grouping, Special Support etc	Assignments & Submission Dates	
1	1	08-Sep	Introduction to Topic, Types of measurement - linear, vertical, angular vs Setting out. VLE material availability. Reading materia/ books. Web sites.	Discussion + pedagogic + practical setting out exercise as intro			
2	2	15-Sep	Principle of linear surveying. Instruments to be used. Booking system. Trilateration. Offset, ties, base lines, WCB and orientation . Exercise outside on base line measurement. Inform of assignment format. Website address	Pedagogic + Demo/Exercise in FIELD			
3	3	22-Sep	Drawing the plan from site bookings. Practical measurement exercise for trilateration + exercise on booking system.+ PRACTICE drawing plan.	Pedagogic and Practical. Check on setting up and booking methods.	Advise to start P1	START WORKING ON ASSIGN 1 (P1, P2.1)	
4	4	29-Sep	Drawing the plan from site bookings. WCB and orientation, measurement with a magnetic compass. Practical as necessary.	Pedagogic and Practical. Check on setting up and booking methods.	carry on with P2.1		
5	5	06-Oct	GIVE OUT TAPE MEASURES SO STUDENTS CAN CATCH AS NECESSARY. COMMENCE LEVELLING THEORY. PRACTICAL SETTING UP INSTRUMENT. CALCULATIONS WITH FOR	One to one during Practical. Check on setting up and booking methods.	carry on with p2.2 Site work for P2.3		
6	6	13-Oct	Catch up with drawing tasks, do practical linear survey catch up	Pedagogic + Demo in class. + Practical and one to one formative assessment.	carry on with P2.4		
7	7	20-Oct	Catch up with drawing tasks, do practical linear survey catch up	First progress report for students at risk (Report sent to sponsor if necessary)	class tutorial for drawing help		
8		27-Oct	AUTUMN HALF TERM				

9	8	03-Nov	COMMENCE LEVELLING THEORY. PRACTICAL SETTING UP INSTRUMENT. CALCULATIONS FOR BOOKINGS	Pedagogic + Demo in class. + Practical and one to one formative assessment.		SUBMIT ASSIGNMENT 1 (P1 & P2)	
10	9	10-Nov	Practical levelling and booking. All Intermediates then Flying levels.demo of circuit by Tutor	Pedagogic and Practical. Check on setting up and booking methods.	Advise to start P3	START WORKING ON ASSIGN 2 (P3)	
11	10	17-Nov	Practical levelling and booking. All Intermediates then Flying levels by studenst in pairs .CHECK BOOKING.	Practical and Individual teaching.			
12	11	24-Nov	More practical Levelling. Intro 2 peg test	Practical and Individual teaching.	do 2 peg test	Submit results of 2 peg test - for reports to employers	
13	12	01-Dec	Repeat Levelling Procedure - complet circuit. Check booking and all checks	Pedagogic and practical exercise. Check on booking			
14	13	08-Dec	How to produce a section - practical methods followed by drawing methods. In class drawing exercise Taking levels in a grid. What to do with grid of levels. In class contour sketching.(not	Pedagogic and in class exercise.	carry on with P4.1 (a)	should be working on P4(.1a)	
15	14	15-Dec	START PRACTICAL WORK FOR TASK 2 . Leveling transfer OBM TO TBM & SECTION & GRID OF LEVELS	practical on site - PRACTICE for coursework	carry on with P4.1 (a)	In class contour drawing as test to give report to employers	
16		22-Dec	CHRISTMAS BREAK				
17		29-Dec					
18	15	05-Jan	Continue practical levelling assignments(obm to tbm then for longt section)	practical on site - for coursework	carry on with P4.1(b)	should be working on P4.1(b)	
19	16	12-Jan	Continue practical levelling assignments(obm to tbm then for longt section)	practical on site - for coursework	carry on with P4.1 (b)	should be working on P4.2	
20	17	19-Jan	in class help with drawing sections.	Practical and Individual teaching.	carry on with P4.2		
21	18	26-Jan	check coursework and allow for catch up	Practical and Individual teaching.	carry on with P4.3		
22	19	02-Feb	check coursework and allow for catch up	practical and calcs		SUBMIT ASSIG 2 (P3 & P4)	
23	20	09-Feb	Introduction to angular measurement, instruments, history, sexagesimal system and maths. Advantages of angular v linear. Booking methods.	Pedagogic and practical TS use.			

24		16-Feb	SPRING HALF TERM			
25	21	23-Feb	Repeat intro to angular measurement plus setting up instrument in class PRACTICAL EXERCISE USING TOTAL STATIONS. Check booking methods and calcs	pedagaogic, demo with protractor, antique then modern instrument. + PRACTICAL TO MEASURE INTERNAL ANGLES FOR TRIANGLE.		
26	22	02-Mar	Commence practical for task 3 - set student's into groups and give area to work in.	pedagaogic, PRACTICAL TO MEASURE INTERNAL ANGLES FOR TRIANGLE.		START WORKING ON ASSIGN 3 (P5)
27	23	09-Mar	Closed traverse calculations. PRACTICAL FOR TASK 3	pedagaogic, PRACTICAL TO MEASURE INTERNAL ANGLES FOR COURSEWORK	carry on with P6.2	
28	24	16-Mar	Vertical angles and measuring Inaccessible distance	FLOAT TO CATCH UP + MERIT AID		
29	25	23-Mar	Setting out Theory. Calculations required for Polar coordinates.	Pedagogic and PRACTICAL FOR TASK 3		
30		30-Mar	SPRING VACATION (EASTER BREAK)			
31		06-Apr				
32	26	13-Apr	Setting out Theory. Calculations required for Polar coordinates.	Pedagogic and PRACTICAL FOR TASK 3		SUBMIT ASSIG 3 (P5 & P6)
33	27	20-Apr	REPEAT Setting out Theory. Calculations required for Polar coordinates.	Pedagogic + checking calc methods		
34	28	27-Apr	REPEAT Setting out Theory. Calculations required for Polar coordinates.	Pedagogic + checking calc methods		START WORKING ON ASSIGN 4 (P7)
35	29	04-May	REPEAT Setting out Theory. Calculations required for Polar coordinates.	IN CLASS TEST CALCULATE SETTING OUT INFORMATION	test on setting out calcs	In class test for P8.1
36	30	11-May	PRACTICAL SETTING OUT EXERCISE FOR P8	OBSERVATION FORMS TO BE COMPLETED ON SITE.		
37	31	18-May	Float to catch up and do higher grade work	Practical work with supervision on methods		submit higher grades when ready
38	32	25-May	Float to catch up and do higher grade work	Practical work with supervision on methods		submit higher grades when ready
39	33	01-Jun	Float to catch up and do higher grade work	Practical work with supervision on methods		SUBMIT ASSIG 4 (P7 & P8)
40	34	08-Jun	Float to catch up and do higher grade work	Practical work with supervision on methods	individual help as necessary	
41	35	15-Jun	ADVISE TODAY FINAL DATE OF SUBMISSION	NO MORE TIME	FIN!	COLLECT OUTSTANDING ASSIGNMENTS
42	36	22-Jun				