

Republic of Iraq

The Ministry Of Higher  
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: Soil Science and  
Water Resource

Stage: The first

Lecturer name: Aidel Kadum

Qualification: Assistant Professor

Place of work: Soil Science and  
Water Resource

## Flow up of implementation celli pass play

Course Instructor	Aidel Kadum Jassim AL-SHAMARY				
E-mail	adel_kadum500@yahoo.com				
Title	Land Surface Grading				
Course Coordinator	The Second				
Course Objective	Getting to know the concept of leveling, the scientific foundations, the equipment used for the leveling process and contour lines, how to calculate the volumes of earthworks resulting from leveling and adjustment operations, and the use of modern technologies in leveling .and adjustment work				
Course Description	Make the learner able to recognize the types of leveling devices and methods of leveling and modifying lands				
Textbook	1- Riyadh Saleh Al-Khafaf. Foundations of plane space and topography. 2000				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (20%)	As (15%)	As (5 %)		As (60%)
General Notes					

اسم الجامعة: ديالى  
اسم الكلية: الزراعة  
اسم القسم: علوم التربة والموارد المائية  
المرحلة: الاولى  
اسم المحاضر الثلاثي: عادل كاظم جاسم  
اللقب العلمي: أستاذ مساعد  
المؤهل العلمي: دكتوراه  
مكان العمل: علوم التربة والموارد المائية

بسم الله الرحمن الرحيم



جمهورية العراق

وزارة التعليم العالي والبحث العلمي

جهاز الاشراف والتقويم العلمي

## Flow up of implementation celli pass play

الملاحظات	المادة العملية	المادة النظرية	التاريخ	الاسبوع
				1
				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
عطلة نصف السنة				
	Identify the leveling devices	Definition of settlement and basic terms used	2024-1-29	17
	Practical use of the leveling device	Devices used in the settlement and adjustment process	2024-2-5	18
	A practical application for calculating a point level using a leveling device	Methods of calculating levels	2024-2-12	19
	Extracting several levels of sequential settlement points	Sequential settlement	2024-2-19	20
	How to use the leveling device to calculate excavation and backfilling for longitudinal sections	Longitudinal sections	2024-2-26	21
	How to use the leveling device to	Cross sections	2024-3-4	22

	calculate			
	Excavation and backfilling of cross sections	Sources of error in settlement and mutual settlement work	<b>2024-3-11</b>	<b>23</b>
	Exercises and problems for preparing settlement tables	Contour lines, the contour interval, their specifications, and the direct method for preparing contour lines	<b>2024-3-18</b>	<b>24</b>
	A practical application for preparing contour lines using the direct method	The indirect method of preparing contour lines	<b>2024-3-25</b>	<b>25</b>
	A practical application for preparing contour lines by the indirect method	Volumes, their shapes, and methods of calculating volumes from longitudinal and cross-sections	<b>2024-4-1</b>	<b>26</b>
	Exercises and problems to calculate volumes from	Calculating volumes from the levels of grid settlement points	<b>2024-4-8</b>	<b>27</b>
	Longitudinal and cross sections	Calculating volumes from contour lines	<b>2024-4-15</b>	<b>28</b>
	Exercises and problems to calculate volumes from	Laser leveling	<b>2024-4-22</b>	<b>29</b>
	Levels of grid settlement points	Soil amendment without slope	<b>2024-4-29</b>	<b>30</b>
	Exercises and problems to calculate volumes from	One-slope adjustment and two-slope adjustment	<b>2024-5-2</b>	<b>31</b>
				<b>32</b>

توقيع العميد:

توقيع الاستاذ: