



Course No.:2

Course Name: Forecasting Lab 2

Course Website: <https://uomustansiriyah.edu.iq/e-learn/profile.php?id=573>

Time Division: 2 hours

Semester & Year: 2 , 2022 / 2023

Course Description

- The second course include application of the previous experiments using weather charts for forecasting

Course Intended Outcomes:

- At the end of the second course, students are expected to learn: The student will learn how to calculate the dynamical processes using weather synoptic charts.

-

Lab Course Outline:

Week	Description depends on the Timing table (Theoretical & Practical)
1	Lab 1: Pressure Gradient part 1
2	Lab 2: Pressure Gradient part 2
3	Lab 3: Calculating of wind divergence
4	Lab 4: Discussion the results
5	Lab 5: calculate relative vorticity by using finite-difference method
6	Lab 6: Discussion the results
7	Lab7: Calculate speed of vertical wind.
8	Lab 8: Intensity of the air fronts
9	Lab9: Discussion the results
10	Lab10: Exam

Textbooks:

1- ا.د.منعم .ح.خلف ،م.د.سناء.ع.عبد الجبار .،2009، تجارب عملية في الرصد والتحليل والتنبؤ الجوي ،دار الكتب والوثائق ،بغداد،العراق

Suggested references:

1. Tim. V.,2011, *Weather Analysis and Forecasting, Weather graphics. United State of America.*

Marking:

Course					Final Exam	Final Mark
1st exam	2nd exam	Practical	Activity	Total		
10	10	10	2	12	20	32

Assignments and/ or Projects:

Assignment/ Project	Description	Due Date	Marking
A report	A report submitted by the student on any external subject	Weakly	10

Instructor(s) information

Section: Atmospheric Sciences Building Lecture Room: Forecasting Lab Office No.: 1

Instructor's Name: Assist Prof. Zahraa Salah E-Mail: Zahraa.atmasc@uomustansiriyah.edu.iq

Instructor's Name: lecturer: Hdeel Jalil Assi E-Mail : assihadil73@uomustansiriyah.edu.iq

Office Hours: (8:30-12:30)

NOTES:

-Office Hour: Other office hours are available by appointment.

-The content of this syllabus not be changed during the current semester.

Lecturer Signature

Chairman Signature