

## Course Description Form

<b>1. Course Name:</b>					
Optical Mineralogy					
<b>2. Course Code:</b>					
GS 3310					
<b>3. Semester / Year:</b>					
Semester second/ Year 2024-2025					
<b>4. Description Preparation Date:</b>					
12/10/2024					
<b>5. Available Attendance Forms:</b>					
Attendance in the classroom					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
Number of Credit Hours (Total) = 5 / Number of Units (Total) = 3.5					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Nazar Zaidan Khalaf Al-Salmani Email: nazarzaidan89@uoanbar.edu.iq					
<b>8. Course Objectives</b>					
<b>Course Objectives</b>		The course aims to consolidate the basic concepts of Optical Mineralogy Studying mineral slides using polarized microscope technology and knowing the special optical characteristics to distinguish each mineral at its mineral groups			
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		The main strategy that will be adopted in delivering this module is to encourage students' participation in the discussions, while at the same time refining and expanding their critical thinking skills. This will be achieved through class interactive tutorials and by considering types of simple experiments involving soil sampling activities that are interesting to the students.			
<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
Week 1		Introduction			General questions discussion
Week 2		Sample Preparation			General questions discussion
Week 3		Polarized Microscope			General questions discussion
Week 4		Optical Properties of Minerals			General questions discussion
Week 5		Color and Pleochroisim			General questions discussion
Week 6		Cleavage			General questions discussion
Week 7		Refractive Index			General questions discussion

Week 8		Relief			General questions discussion
Week 9		Shape and Habit			General questions discussion
Week 10		Interference Color			General questions discussion
Week 11		Twining and Shining			General questions discussion
Week 12		Extinction			General questions discussion
Week 13		Optical sign and Elongation			General questions discussion
Week 14		Interference Color			General questions discussion
Week 15		Exam			General questions discussion

#### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc  
 Participation in the classroom  
 Providing activities  
 Semester and final tests and activities

#### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	بصرية المعادن. زكي عبد الجبار الجبوري Introduction to Optical Mineralogy, William D. Nesse, Second Edition. Introduction to Optical Mineralogy, William Nesse, Fourth edition, 2012.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	