



Course Specification

(Bachelor)

Course Title: **Ophthalmic Dispensing II**

Course Code: **APOP3103**

Program: **Optician Diploma**

Department: *Enter Department Name .*

College: **Applied Collage**

Institution: **Umm-Al-Qura University**

Version: **1**

Last Revision Date: **8 December 2024**



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A. General information about the course:

1. Course Identification

1. Credit hours: (4h)

4 credit hrs = 3 theoretical + 1 practical

2. Course type

- A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
- B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (1st level / 2nd year)

4. Course General Description:

The Ophthalmic Dispensing II course builds upon foundational knowledge gained in Ophthalmic Dispensing I, advancing students' expertise in complex dispensing scenarios, technical adjustments, and specialized eyewear solutions.

5. Pre-requirements for this course (if any):

Ophthalmic Dispensing I (APOP2102)

6. Co-requisites for this course (if any):

NA

7. Course Main Objective(s):

Be the end of the course, students should to:

- 1- Develop advanced understanding of specialty lenses and frames, including occupational, sports, and pediatric eyewear.
- 2- Teach students to handle complex prescriptions and advanced lens designs such as high-power lenses, progressive addition lenses (PALs), and prismatic corrections.
- 3- Provide expertise in the application of advanced tools and technologies for precision dispensing.
- 4- Enhance problem-solving skills in troubleshooting fit, alignment, and visual performance issues.
- 5- Prepare students for leadership roles in ophthalmic dispensing with a focus on patient-centered care and industry standards.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	52
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		
5	Lab	42	48



3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	42
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		87

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Explain the optical principles underlying advanced lens designs, such as occupational, sports, and low-vision lenses.	K4	Interactive Lecturing	Examinations
1.2	Demonstrate understanding of lens aberrations, their impact on visual quality, and strategies for their mitigation.	K1	Interactive Lecturing	Examinations
1.3	Describe international standards (ANSI, ISO) for progressive lenses, coatings, and specialized eyewear.	K4	Interactive Lecturing	Examinations
2.0	Skills			
2.1	Accurately dispense and fit progressive lenses, occupational lenses, and high-index materials for specific patient needs.	S2	Interactive Lecturing Labs	Written exam Practical exam
2.2	Perform advanced lens and frame adjustments, including dealing with asymmetry, facial anatomy variations, and rimless frame fittings.	S3	Interactive Lecturing Labs	Written exam Practical exam
2.3	Verify multifocal and progressive lenses for alignment and power accuracy using lensometry.	S1	Interactive Lecturing Lab	Written exam Practical exam
3.0	Values, autonomy, and responsibility			



Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
3.1	Commit to continuous learning and staying updated on new technologies and industry trends.	V2	Lab Activities	Participation Reports
3.2	Work cooperatively in a small group environment	V1	Lab Activities	Participation Reports

C. Course Content

No	List of Topics	Contact Hours
1.	Review of Ophthalmic Dispensing I	6
2.	Advanced Lens Designs	6
3	Optical Aberrations and Lens Customization	6
4	High-Index and Specialized Lens Materials	6
5	Advanced Frame Adjustments	6
6	Progressive and Multifocal Lens Fitting	6
7	Occupational and Low-Vision Dispensing	6
8	Pediatric Dispensing	6
9	Lens Verification and Troubleshooting	6
10	Coatings and Surface Treatments	6
11	Innovations in Dispensing Technology	6
12	Standards and Quality Control	6
13	Professional Ethics and Communication	6
14	Environmental Sustainability in Dispensing	6
15	Final Review and Practical Assessments	3
Total		87

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	5	10
2.	Mid-Term Exam	8	20
3.	Presentations and homework	1 - 14	10
4.	Lab Reports	1 - 14	10
4.	Final Exam (practical)	13	10
5.	Final Exam	16	40



*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	"System for Ophthalmic Dispensing" by Clifford W. Brooks and Irvin M. Borish
Supportive References	
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms and laboratorie
Technology equipment (Projector, smart board, software)	Projector
Other equipment (Depending on the nature of the specialty)	Generator, polishing and finning machine

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students and Faculty	Curse report, annual report, survey and results
Effectiveness of students assessment	Faculty and Program Leaders	Curse report, annual report, survey and results
Quality of learning resources	Students, Faculty and Program Leaders	Curse report, annual report, survey and results
The extent to which CLOs have been achieved	Faculty and Program Leaders	Curse report, annual report, survey and results
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

Assessment Methods (Direct, Indirect)





G. Specification Approval

COUNCIL /COMMITTEE	Umm Al-Qura University Council
REFERENCE NO.	851141114462/190386
DATE	1446/11/22

