



1.	<b>Course title</b>	Special surgery – ophthalmology
2.	<b>Course number</b>	0506504
3.	<b>Credit hours</b>	2 hours out of 12 special surgery
	<b>Contact hours (theory, practical)</b>	Theory: 13 Lectures Practical: 14 days of clinical training and interactive activities
4.	<b>Prerequisites/Corequisites</b>	--
5.	<b>Program title</b>	Doctor of Medicine
6.	<b>Program code</b>	N/A
7.	<b>Awarding institution</b>	The University of Jordan
8.	<b>School</b>	School of Medicine
9.	<b>Department</b>	Special Surgery Department
10.	<b>Course level</b>	Bachelor
11.	<b>Year of study and semester (s)</b>	Fifth year
12.	<b>Other department (s) involved in teaching the course</b>	-
13.	<b>Main Learning language</b>	English
14.	<b>Learning Types</b>	<input type="checkbox"/> Face to face learning   x <input type="checkbox"/> Blended <input type="checkbox"/> Fully online
15.	<b>Online platforms(s)</b>	<input type="checkbox"/> Moodle   x <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype   x <input type="checkbox"/> Zoom <input type="checkbox"/> Others
16.	<b>Issuing/Revision Date</b>	31/12/2023



### 17. Course Coordinator:

**Name:** Mutasem Alrbie

**Contact hours:** Sunday 12-2 pm and Tuesday 11 am – 1 pm

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### 18. Other instructors:

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### 19. Course Description and Aims:

#### **A- Course Description:**

During this two-week rotation within the special surgery course, students will engage in comprehensive learning experiences in ophthalmology. The curriculum includes both theoretical and clinical learning in glaucoma clinic, anterior segment clinic, pediatric clinic, cornea clinic, retina clinic, diabetic screening clinic, oculoplastic clinic. Students will actively participate in clinics, gaining practical insights into. Additionally, they will have the opportunity to observe surgical procedures in both day case and major theatre settings. The rotation will also feature daily seminars and interactive activities to enhance the overall learning experience.

**B- Aims:**

This course is designed to equip students with an understanding of prevalent ophthalmology clinic commonly encountered in general medical practice. The emphasis is on equipping students with the skills needed for effective diagnosis and management of these pathologies.

**20. Program Intended Learning Outcomes (PLOs) (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):**

1. Demonstrate basic knowledge of normal human structure and function at molecular, genetic, cellular, tissue, organ, system and whole-body levels in terms of growth, development, and health maintenance. Analyze the basic molecular and cellular mechanisms involved in the causation and treatment of human disease and their influence on clinical presentation and therapy.
2. Collect, interpret, document, and communicate accurately a comprehensive medical history, including the psychological and behavioral factors, and a thorough organ-system-specific physical examination inclusive of the mental status of the patient.
3. Integrate and communicate collected clinical information in the construction of appropriate diagnostic and therapeutic management strategies to identify life-threatening conditions ensuring prompt therapy, referral, and consultation with relevant disciplines and skillfully perform basic medical procedures for general practice on patients with common illness, acute and chronic, taking into account environmental, social, cultural and psychological factors.
4. Demonstrate in-depth knowledge of the epidemiology and biostatistics of common diseases, and analyze the impact of ethnicity, culture, socioeconomic factors and other social factors on health, disease and individual patient's health care.
5. Communicate effectively and professionally, both orally and in writing, with patients, their families, and with other healthcare providers utilizing information technology resources in his/her scholarly activities and professional development with the ability to teach others, and to understand and respect other healthcare professionals' roles, and apply the principles of multidisciplinary teamwork dynamics and collaboration.
6. Apply scientific methods including evidence-based approach to the medical practice including problem identification, data collection, hypothesis formulation, etc., and apply inductive reasoning to problem solving and ensure that clinical reasoning and decision making are guided by sound ethical principles.



7. Demonstrate knowledge of scientific research methods and ethical principles of clinical research and be able to write research proposals or research papers.
8. Demonstrate professionally the skills needed for Quality improvement, lifelong learning, and continuous medical education including the ability to identify and address personal strength and weakness, self-assess knowledge and performance, and develop a self-improvement plan.

**21. Intended Learning outcomes of the course (CLOs): Upon completion of the course, the student will be able to achieve the following intended learning outcomes:**

1. The students will have the knowledge and understanding of the basic ophthalmology anatomy and physiology as well as the theoretical principles and clinical aspects of ophthalmology.
2. They should be able to conduct a thorough assessments of the ophthalmology through history-taking, clinical examination, and the ability to identify abnormalities.
3. Students will have a comprehensive knowledge of common disorders affecting.
4. Students will be knowledgeable in neonatal ophthalmology ROP screening and the tests used for all childhood age groups for diagnostic ophthalmology assessments, and the basic methods of rehabilitating ophthalmology disorders in children.
5. Students should exhibit competence in selecting appropriate management modalities for various ophthalmology conditions.
6. Students will develop the capacity to make informed clinical decisions based on a comprehensive understanding of patient history, examination findings, and diagnostic results. This includes considering the broader context of ophthalmology diseases in decision-making.
7. Students should be able to conduct ophthalmology, procedures, and a few basic diagnostic tests, demonstrating competence in applying theoretical knowledge in a clinical setting. Students will have enhanced counselling and communication skills to effectively interact with patients, families, and healthcare colleagues regarding ophthalmology conditions, fostering clear and empathetic communication.
8. Students will possess the ability to critically evaluate and apply current evidence-based practices in the diagnosis and treatment of ophthalmology diseases.



22. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):

Program ILOs ILOs of the course	CLO (1)	CLO (2)	CLO (3)	CLO (4)	CLO (5)	CLO (6)	CLO (7)	CLO (8)
PLO (1)	✓							
PLO (2)		✓						
PLO (3)			✓					
PLO (4)				✓				
PLO (5)					✓			
PLO (6)						✓		
PLO (7)							✓	
PLO (8)								✓
PLO (9)								
PLO (10)								



## 23. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome (SLO)	Descriptors **	Learning Types (Face to Face/Blended/ Fully Online)	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
1	1.1	<b>Introduction</b>	<ul style="list-style-type: none"> <li>- Recap the ophthalmology embryology and anatomy.</li> <li>- List and classify the various differential diagnoses for ophthalmology in childhood and adulthood.</li> <li>- Learn the clinical approach to any ophthalmic diseases through history, exam, and imaging.</li> <li>- Learn the clinical features of ophthalmic diseases.</li> <li>- Understand the medical and surgical treatment for each diagnosis.</li> </ul>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.2	<b>Cornea and sclera</b>	<ul style="list-style-type: none"> <li>- Learn about cornea corneal diseases.</li> <li>- List the risk factors confrontation to corneal diseases.</li> <li>- Understand the varices treatment options</li> </ul>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.3	<b>Pediatric assessment in children and strabismus</b>	<ul style="list-style-type: none"> <li>- Recall and get in depth understanding of the basic anatomy and physiology of eye diseases in childhood.</li> <li>- Realize the importance of childhood vision screening and its impact.</li> <li>- List, understand and interpret the basic tests used in childhood vision screening.</li> <li>- List the rehabilitation options for children with diseases in vision.</li> </ul>	K S C	Blended		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.4	<b>Diabetic retinopathy</b>	<ul style="list-style-type: none"> <li>- Understand the anatomy and physiology of the Retina, including their structure, and normal functions.</li> <li>- Differentiate between common diseases affecting the retina , understanding their respective</li> </ul>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*



		etiologies and contributing factors. - Understand the various diagnostic and treatment modalities for common diabetic retinopathy including medical surgical options.						
1.5	<b>Lens and cataract</b>	- Understand normal anatomy relevant to lens. - Develop skills for history-taking, examination, and interpreting symptoms. - Learn medical and surgical treatment, including latest technology. - Recognize post-op. potential complications, such as infection.	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
1.6	<b>Orbit</b>	- Recognize clinical features of orbital diseases develop skills for accurate examination and diagnosis. - Learn evidence-based treatment options for orbital, including appropriate use of antibiotics, and recognize the role of watchful waiting in certain cases.	K S C	Blended		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
1.7	<b>Glaucoma</b>	- Recognition and assessment of IOP including recognizing the different causes, clinical presentations, and potential complications. - Understanding surgical Indications and Procedure - Students should be equipped with the knowledge and skills necessary to manage patients with glaucoma	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
2	2.1	<b>Pupil exam and disorders</b>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.2	<b>Sudden and gradual loss of vision</b>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.3	<b>Lids and lacrimal system</b>	K S C	Blended	Zoom/ Teams	Synchronous Lecturing	Written exam OSCE exam	*



		<p>infections.</p> <p>- Become aware how to differentiate the different pathologies through history and examination.</p> <p>- Understand the diverse treatment approaches and interventions for the common conditions.</p>					Attendance Evaluation	
2.4	<b>Uveitis</b>	<p>- Identify and classify the different etiologies, risk factors, and severity levels associated with these conditions.</p> <p>- Understand appropriate management strategies for uveitis, including initial first aid measures and advanced interventions.</p>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
2.5	<b>Eye injuries and red eye</b>	<p>- Understand the range of management strategies including medical and surgical options.</p> <p>- Become aware of potential complications associated with eye injuries and understand the importance of long-term follow-up care.</p>	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
<p>** <b>K: Knowledge, S: Skills, C: Competency</b></p> <p>* <b>Lecture notes in ophthalmology</b></p>								



## 24. Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Descriptors**	Period (Week)	Platform
Subsurgery OSCI	30	Introduction Cornea and sclera Pediatric assessment in children and strabismus Diabetic retinopathy Lens and cataract Orbit Glaucoma Pupil exam and disorders Sudden and gradual loss of vision Lids and lacrimal system Uveitis Eye injuries and red eye	1.1,1.2,1.3,1.4,1.5 ,1.6,1.7,2.1,2.2,2.3,2.4,2.5	K S C	Part of the end of sub surgery course exam	Paper-based exam
Evaluation including attendance	20	Introduction Cornea and sclera Pediatric assessment in children and strabismus Diabetic retinopathy Lens and cataract Orbit Glaucoma Pupil exam and disorders Sudden and gradual loss of vision Lids and lacrimal system Uveitis Eye injuries and red eye	1.1,1.2,1.3,1.4,1.5 ,1.6,1.7,2.1,2.2,2.3,2.4,2.5	K S C	At the end of the 2 weeks ophthalmology rotation	-
End of year MCQ test as part of sub surgery exam	50	Introduction Cornea and sclera Pediatric assessment in children and strabismus Diabetic retinopathy Lens and cataract Orbit Glaucoma Pupil exam and disorders Sudden and gradual loss of vision Lids and lacrimal system Uveitis Eye injuries and red eye	1.1,1.2,1.3,1.4,1.5 ,1.6,1.7,2.1,2.2,2.3,2.4,2.5	K S C	At the end of each academic year (usually in June)	Computer or paper-based exam
** K: Knowledge, S: Skills, C: Competency						



## 25. Course Requirements

- ✓ Classroom Lectures
- ✓ Seminar room
- ✓ Internet connection and lecturing tools (Zoom/ Teams. Etc)
- ✓ Outpatient clinics
- ✓ ophthalmology surgery theatres

## 26. Teaching Methods and Assignments:

**Development of ILOs is promoted through the following teaching and learning methods:**

- ✓ Morning and evening classroom/ online lectures
- ✓ Interactive activities and case discussions
- ✓ Outpatient clinics
- ✓ Seminar discussions
- ✓ Observation of ophthalmology common surgeries

## 27. Course Policies:

### **A- Attendance policies:**

Attendance will be monitored by the course coordinator. Attendance policies will be announced at the beginning of the course.

### **B- Absences from exams and handing in assignments on time:**

Will be managed according to the University of Jordan regulations. Refer to <http://registration.ju.edu.jo/Documents/daleel.pdf>

### **C- Health and safety procedures:**

Faculty Members and students must always, conform to Health and Safety rules and procedures.

### **D- Honesty policy regarding cheating, plagiarism, misbehavior:**

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this course and also integrity in your behavior in and out of the classroom. Students violate this policy would be subjected to disciplinary action according to University of Jordan disciplinary policies.

### **E- Grading policy:**

Grade-point average, Rules are preset by the Faculty and Department Councils

### **F- Available university services that support achievement in the course:**

Availability of comfortable lecture halls, data show, internet service and E learning website <https://elearning.ju.edu.jo/> .



**27. References:**

**A. Required book (s), assigned reading and audio-visuals:**

ophthalmology lecture notes

**B. Recommended books, materials, and media:**

Web based resources: Up to Date

**28. Additional information:**

**Name of Course Coordinator:** Dr. Mutasem Alrbie

**Date:** 31/12/2023

**Signature:**

**Head of Department:** Dr. Mutasem Alrbie

**Signature:**

**Head of Curriculum Committee/Faculty:** Dr Yaser Rayyan

**Signature:**

**Dean:** Dr Yaser Rayyan

**Signature:**