| Form: Course Syllabus | Form Number | EXC-01-02-02A |
|---|---|---|
| | Issue Number and Date | 2/3/24/2022/2963 05/12/2022 |
| | Number and Date of Revision or Modification | |
| | Deans Council Approval Decision Number | 265/2024/24/3/2 |
| | The Date of the Deans Council Approval Decision | 2024/1/23 |
| | Number of Pages | 06 |

| | | |
|---|---|---|
| 1. | Course Title | Special surgery – ophthalmology |
| 2. | Course Number | 0506504 |
| 3. | Credit Hours (Theory, Practical) | 2 hours out of 12 special surgery |
| | Contact Hours (Theory, Practical) | Theory: 13 Lectures<br>Practical: 14 days of clinical training and interactive activities |
| 4. | Prerequisites/ Corequisites | |
| 5. | Program Title | Doctor of Medicine |
| 6. | Program Code | 05 |
| 7. | School/ Center | School of Medicine |
| 8. | Department | Special Surgery Department |
| 9. | Course Level | Bachelor |
| 10. | Year of Study and Semester (s) | Fifth year |
| 11. | Program Degree | Bachelor |
| 12. | Other Department(s) Involved in Teaching the Course | |
| 13. | Learning Language | English |
| 14. | Learning Types | ☐Face to face learning ☐Blended ☐Fully online |
| 15. | Online Platforms(s) | ☐Moodle ☐Microsoft Teams |
| 16 | Issuing Date | 31/12/2023 |
| 17. | Revision Date | 11-5-2025 |

**18. Course Coordinator:**

Name: Dr Mohamad Y/iate Professor

**Contact hours:** Sunday 10-2 pm and Tuesday 1 pm- 3pm

**Office number:** Ortho clinic **Phone number:** 0096265353444 / 2727

**Email:** myasin@ju.edu.jo

Course coordinator / Section :

Prof. Almutez Gharaibeh

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**19. Other Instructors:**

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**20. Course Description:**

As stated in the approved study plan.

**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.

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

| PLO's | *National Qualifications Framework Descriptors* | | |
|---|---|---|---|
| | Competency (C) | Skills (B) | Knowledge (A) |
| 1. | ☐ | ☐ | ■ |
| 2. | ☐ | ■ | ☐ |
| 3. | ■ | ☐ | ☐ |
| 4. | ☐ | ☐ | ■ |
| 5. | ☐ | ■ | ☐ |
| 6. | ■ | ☐ | ☐ |
| 7. | ☐ | ☐ | ■ |
| 8. | ■ | ☐ | ☐ |

* Choose only one descriptor for each learning outcome of the program, whether knowledge, skill, or competency.

**Program Intended Learning Outcomes:**

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.

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

| Course ILOs # | The learning levels to be achieved | | | | | | Competencies |
|---|---|---|---|---|---|---|---|
| | Remember | Understand | Apply | Analyse | Evaluate | Create | |
| 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 |

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|---|---|---|---|---|---|---|---|
| | | | | | | | 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. |

**23. The matrix linking the intended learning outcomes of the course -CLO's with the intended learning outcomes of the program -PLOs:**

| Program ILOs / ILOs of the course | CLO (1) | CLO (2) | CLO (3) | CLO (4) | CLO (5) | CLO (6) | CLO (7) | CLO (8) | Descriptors** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | A | B | C |
| PLO (1) | ✓ | | | | | | | | ✓ | | |
| PLO (2) | | ✓ | ✓ | | | | | | | ✓ | |
| PLO (3) | | | | ✓ | | | | | | | ✓ |
| PLO (4) | | | | | ✓ | | | | ✓ | | |
| PLO (5) | | | | | | ✓ | | | | ✓ | |
| PLO (6) | | | | | | | | | | | ✓ |
| PLO (7) | | | | | | | ✓ | | ✓ | | |
| PLO (8) | | | | | | | | ✓ | | | ✓ |

***Linking each course learning outcome (CLO) to only one program outcome (PLO) as specified in the course matrix.**

****Descriptors are determined according to the program learning outcome (PLO) that was chosen and according to what was specified in the program learning outcomes matrix in clause (21).**

## 24. 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 | **Introduction** | - Recap the ophthalmology embryology and anatomy.<br>- List and classify the various differential diagnoses for ophthalmology in childhood and adulthood.<br>- Learn the clinical approach to any ophthalmic diseases through history, exam, and imaging.<br>- Learn the clinical features of ophthalmic diseases.<br>- Understand the medical and surgical treatment for each diagnosis. | K S C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 1.2 | Cornea and sclera | - Learn about cornea corneal diseases.<br>- List the risk factors confrontation to corneal diseases.<br>- Understand the varices treatment options | K S C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 1.3 | **Pediatric assessment in children and strabismus** | - Recall and get in depth understanding of the basic anatomy and physiology of eye diseases in childhood.<br>- Realize the importance of childhood vision screening and its impact.<br>- List, understand and interpret the basic tests used in childhood vision screening.<br>- List the rehabilitation options for children with diseases in vision. | K S C | Blended | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 1.4 | **Diabetic retinopathy** | - Understand the anatomy and physiology of the Retina, including their structure, and normal functions.<br>- Differentiate between common | K S C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance | * |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | diseases affecting the retina , understanding their respective etiologies and contributing factors.<br>- Understand the various diagnostic and treatment modalities for common diabetic retinopathy including medical surgical options. | | | | | Evaluation | |
| | 1.5 | **Lens and cataract** | - Understand normal anatomy relevant to lens.<br>- Develop skills for history-taking, examination, and interpreting symptoms.<br>- Learn medical and surgical treatment, including latest technology.<br>- Recognize post-op. potential complications, such as infection. | K S C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 1.6 | **Orbit** | - Recognize clinical features of orbital diseases develop skills for accurate examination and diagnosis.<br>- 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<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 1.7 | **Glaucoma** | - Recognition and assessment of IOP including recognizing the different causes, clinical presentations, and potential complications.<br>- Understanding surgical Indications and Procedure<br>- 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<br>OSCE exam<br>Attendance<br>Evaluation | * |
| 2 | 2.1 | **Pupil exam and disorders** | - Identify and classify the different types of Pupil disorders.<br>- Understand the causes and risk factors for pupil disorders.<br>- Be able to interpret and recognize the results of the basic pupil exam. | K S C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 2.2 | **Sudden and gradual loss of vision** | - Become aware of the differential diagnosis and the various etiologies of loss of vision. | K S C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 2.3 | **Lids and lacrimal** | - Get a grasp of the various lids and | K S | Blended | Zoom/ | Synchronous | Written exam | * |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | system | lacrimal diseases problems including congenital and acquired lesions and infections.<br>- Become aware how to differentiate the different pathologies through history and examination.<br>- Understand the diverse treatment approaches and interventions for the common conditions. | C | | Teams | Lecturing | OSCE exam<br>Attendance<br>Evaluation | |
| | 2.4 | Uveitis | - Identify and classify the different etiologies, risk factors, and severity levels associated with these conditions.<br>- Understand appropriate management strategies for uveitis, including initial first aid measures and advanced interventions. | K<br>S<br>C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |
| | 2.5 | Eye injuries and red eye | - Understand the range of management strategies including medical and surgical options.<br>- Become aware of potential complications associated with eye injuries and understand the importance of long-term follow-up care. | K<br>S<br>C | Face to face | | Synchronous Lecturing | Written exam<br>OSCE exam<br>Attendance<br>Evaluation | * |

** K: Knowledge, S: Skills, C: Competency

* Lecture notes in ophthalmology

## 25. Evaluation Methods:

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

| Evaluation Activity | Mark | Topic(s) | SLOs | Descriptors** | Period (Week) | Platform |
|---|---|---|---|---|---|---|
| Subsurgery OSCI | 30 | Introduction<br>Cornea and sclera<br>Pediatric assessment in children and strabismus<br>Diabetic retinopathy<br>Lens and cataract<br>Orbit<br>Glaucoma<br>Pupil exam and disorders<br>Sudden and gradual loss of vision<br>Lids and lacrimal system<br>Uveitis<br>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<br>S<br>C | Part of the end of sub surgery course exam | Paper-based exam |
| Evaluation including attendance | 20 | Introduction<br>Cornea and sclera<br>Pediatric assessment in children and strabismus<br>Diabetic retinopathy<br>Lens and cataract<br>Orbit<br>Glaucoma<br>Pupil exam and disorders<br>Sudden and gradual loss of vision<br>Lids and lacrimal system<br>Uveitis<br>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<br>S<br>C | At the end of the 2 weeks ophthalmolog rotation | - |
| End of year MCQ test as part of sub surgery exam | 50 | Introduction<br>Cornea and sclera<br>Pediatric assessment in children and strabismus<br>Diabetic retinopathy<br>Lens and cataract<br>Orbit<br>Glaucoma<br>Pupil exam and disorders<br>Sudden and gradual loss of vision<br>Lids and lacrimal system<br>Uveitis<br>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<br>S<br>C | At the end of each academic year (usually in June) | Computer or paper-based exam |

** **K: Knowledge, S: Skills, C: Competency**

*** According to the instructions for granting a Bachelor's degree.**

****According to the principles of organizing semester work, tests, examinations, and grades for the bachelor's degree.**

**Final exam specifications table**

(Table is completed on a separate form by course coordinators prior to conduction of each exam according to Accreditation and Quality Assurance Centre procedures and forms)

| No. of questions/ cognitive level | | | | | | No. of questions per CLO | Total exam mark | Total no. of questions | CLO Weight | CLO no. |
|---|---|---|---|---|---|---|---|---|---|---|
| Create %10 | Evaluate %10 | analyse %10 | Apply %20 | Understand %20 | Remember %30 | | | | | |
| | | | | | | | | | | 1 |
| | | | | | | | | | | 2 |
| | | | | | | | | | | 3 |
| | | | | | | | | | | 4 |
| | | | | | | | | | | 5 |

**26. Course Requirements:**

(e.g.: students should have a computer, internet connection, webcam, account on a specific software/platform…etc.):

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

**ophthalmology surgery theatres**

## 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/

## 28. 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

## 29. Additional information:

| | | |
|---|---|---|
| Name of Course Coordinator/ Ophthalmology section :<br>Prof. Osama Ababneh | Signature:<br>Osama H. Ababneh | Date:<br>8/July/2025 |
| Name of the Head of Quality Assurance Committee/ Department<br>Dr Enas Al- ZAyadneh | Signature: | Date:<br>10/7/2025 |
| Name of the Head of Department<br>Dr Mutasem Al Rabi. | Signature: | Date:<br>9.7.2025 |
| Name of the Head of Quality Assurance Committee/ School or Center<br>Professor Aayman Wahbeh | Signature: | Date:<br>10/7/2025 |
| Name of the Dean or the Director<br>Professor Ayman Wahbeh | Signature: | Date:<br>10/7/2025 |

THE UNIVERSITY OF JORDAN
School of Medicine
Department of Special Surgery

الجامعة الأردنية
كلية الطب
UNIVERSITY OF JORDAN SCHOOL OF MEDICINE