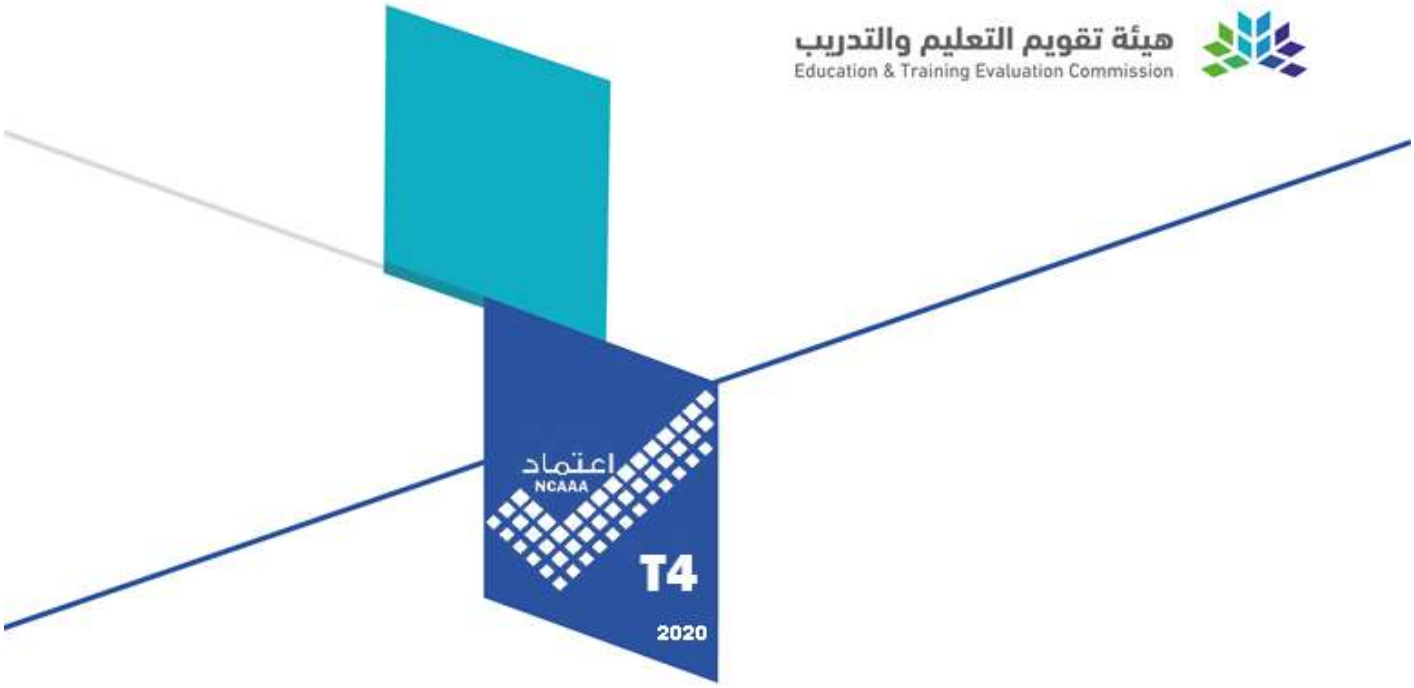
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Course Specifications

Course Title:	Subspecialty Medicine
Course Code:	SSP5X1
Program:	Bachelor of Medicine, Bachelor of Surgery (MBBS)
Department:	NA
College:	College of Medicine
Institution:	Alfaisal University

Table of Contents

A. Course Identification

1. Credit hours: 2 (2+14+0)
2. Course type **a.** University ☐ College ■ Department ☐ Others ☐ **b.** Required ■ Elective ☐
3. Level/year at which this course is offered: Sem 9/10, Year 5
4. Pre-requisites for this course (if any)**:** Sem 7 and 8
5. Co-requisites for this course (if any)**:** None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	38	14%
2	**Clinics, Student presentations, Bedside teaching, SGDs**	227	86%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	38
2	**Laboratory/Studio**	
3	**Tutorial**	227
4	**Others** (specify)	
	Total	265

B. Course Objectives and Learning Outcomes

1. Course Description

The surgical subspecialties clerkship course is designed to offer students a comprehensive overview of the important surgical subspecialties. Through this clerkship course, students rotate between three specialties which are ophthalmology, otolaryngology, and orthopedics. Students spend three weeks in each subspecialty where they are exposed to the common diseases managed in these subspecialties, their management, related examinations, and procedures.

2. Course Main Objective

To achieve a comprehensive understanding of common diseases managed in ophthalmology, otolaryngology, and orthopedics subspecialties, their management, related examinations, and procedures.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Diagnose and manage the following common diseases managed in ophthalmology: 1. Recognize common ocular diseases. 2. Manage simple cases and know when to refer serious problems. 3. The interpretation of the visual fields and to differentiate chiasmal from retro-chiasmal lesions. 4. Recognize common motility problems including cranial nerve palsies. 5. Explain the role of the autonomic nervous system in relation to eye function. 6. Discuss various methods of measuring visual acuity. 7. Understand how to record visual acuity. 8. Describe testing for a relative afferent pupillary defect and its significance. 9. Describe four common defects that affect pupil function. 10. Describe the operation of the slit lamp. 11. Identify common signs of inflammation, scars, corneal and lens changes, and abnormal tissue formation. 12. Understand the basics of measuring the intra-ocular pressure using 13. Different types of tonometers for measuring intraocular pressure. 14. To understand and correlate corneal thickness using pachymetry for glaucoma patients. 15. Understand how to measure eye protrusion by Hertel examination. 16. Understand how ultrasound echoes are used to measure axial length. 17. Understand the concepts of automated perimetry. 18. Describe the six cardinal positions of gaze. 19. Be able to evaluate strabismus patients. 20. List reactions to fluorescein injection during fluorescein angiography. 21. Describe the normal position of the upper eyelid margin. 22. Define glaucoma and its management. 23. Differentiate the various types of glaucoma's, including congenital glaucoma. 24. Define the effects of thyroid eye disease in relation to the eye. 25. List retinal findings caused by diabetes and its treatment.	PLO4,6,7,9,10,12,16,17,18,19,20,21,29,30
1.2	Diagnose and manage the following common diseases managed in otolaryngology: 1. Otitis Media & Complications. 2. Neck Mass. 3. Infections of the external ear. 4. Rhinopathy. 5. Pharyngitis & Tonsillitis. 6. Congenital Hearing Loss. 7. Salivary Gland Disorder and Neoplasms.	PLO4,6,7,9,10,12,16,17,18,19,20,21,29,30

	CLOs	Aligned PLOs
	8. Facial Paralysis. 9. Sinusitis. 10. Introduction to Head & Neck Malignant Neoplasms. 11. Hearing Loss & Tinnitus. 12. Laryngitis, Supra Glottitis, Foreign Bodies and Difficult Airway Management.	
1.3	Diagnose and manage the following common diseases managed in orthopedics: 1. Arthritis. 2. Spinal and Peripheral Nerve Injury. 3. Orthopedic Radiology. 4. Spinal Stenosis. 5. Scoliosis. 6. Common tumors and malignancies. 7. Osteogenesis Imperfecta. 8. Fractures. 9. Common Deformities. 10. Rickets. 11. Common Traumas. 12. Limping Child.	PLO4,6,7,9,10,12,16,17,18,19,20,21,29,30
2	**Skills :**	
2.1	Perform a concise history taking.	PLO13
2.2	Perform the following ophthalmology examinations and clinical procedures: 1. Measure and record visual acuity. 2. Examine pupillary reflexes and to identify and recognize the significance of an afferent pupillary defect (RAPD). 3. Perform a basic ocular motility examination and detect strabismus. 4. Perform a visual field examination by confrontation and recognize the principal visual field defects and understand their localizing value. 5. Examine the eye and ocular adnexa by penlight and recognize the depth of the anterior chamber. 6. Learn how to use the direct ophthalmoscope to evaluate the fundus of the eye. 7. Acquire general familiarity with different equipment's used in ophthalmic examination such as: slit lamp bio microscope, applanation tonometry as well as the direct ophthalmoscope. 8. Perform a basic ocular motility examination and detect strabismus. 9. Acquire general familiarity with the equipment used in ophthalmic examination such as: slit lamp biomicroscope, applanation tonometry and the indirect and direct ophthalmoscope.	PLO5,14,15,18
2.3	Perform the following otolaryngology examinations: 1. Hearing and audiology assessment. 2. Neck examination. 3. Thyroid examination.	PLO14,15,18

CLOs		Aligned PLOs
	4. Vestibular examination.	
2.4	Perform the following Orthopedic examinations: 1. Spine. 2. Shoulder. 3. Elbow. 4. Wrist. 5. Hip. 6. Knee. 7. Foot.	PLO14,18
2.5	Demonstrate presentation skills	PLO25
3	**Values:**	
3.1	Learn bedside manners, confidentiality of patient history as well as the ethics in dealing with patients in the clinic.	PLO24
3.2	Identification of urgent cases and their management	PLO17
3.3	Adhere to the attendance policy.	
3.4	Demonstrate interpersonal skills necessary to maintain professionalism, communicate appropriately with patients, their families, and other medical and paramedical personnel involved in patient care.	PLO25,27,28

C. Course Content

No	List of Topics	Contact Hours
1	History taking & ophthalmic examination	4
2	Red eye	4
3	Ocular emergencies	4
4	Retinal/vitreous disease	3
5	Glaucoma diagnosis	4
6	Neuro-ophthalmology	4
7	Disorder of lens/uvea	4
8	Strabismus	4
9	Orbital disease	3
10	Disease of lid & lacrimal System	4
11	Systemic diseases and the eye	4
12	Neck Mass Lesion & Airway	4
13	Infections of the external ear	4
14	Rhinopathy and Nasal Polyps	4
15	Pharyngitis, Tonsillitis and Adenoiditis	4
16	Congenital Hearing Loss	3
17	Salivary Gland Disorder and Neoplasms	4
18	Facial Paralysis	4
19	Sinusitis	3
20	Introduction to Head & Neck Malignant Neoplasms	4
21	Acquired Hearing Loss & Tinnitus	4
22	Laryngitis, Supra Glottitis, Foreign Bodies and Difficult Airway Management	4
23	Vestibular Disorders	4

24	Deep Neck Space Infections	4
25	Conductive Hearing Loss	4
26	ENT Emergencies	4
27	Sleep Apnea Pediatrics	4
28	Epistaxis	4
29	Conductive Hearing Loss	3
30	Congenital Stridor	4
31	Otitis Media & Complications	4
32	Rhinosinusitis	3
33	Snoring and Sleep Apnea	3
34	Rhinorrhea	4
35	Chronically Discharging Ear	4
36	Swallowing and Voice Disorders	4
37	Outer Ear Infections	4
38	Salivary Gland Disorders	3
39	Osteogenesis Imperfecta	4
40	Tibia vara, Blount's Disease	4
41	Principles & Management of trauma	4
42	Trauma 1	4
43	Trauma 2	4
44	Rickets, osteomalacia and MSK manifestations	4
45	Limb deformity	4
46	Casting lower extremity fractures	2
47	Hip Arthritis	2
48	Scoliosis	2
49	Knee Arthritis & Knee Osteoarthritis	4
50	Club Feet	4
51	Developmental Dysplasia of hip	3
52	Hip Pain – Part 1& 2	3
53	Malignant tumors of bone	4
54	Fracture of the proximal tibia.	4
55	Differential diagnosis of metabolic bone disease	4
56	Shoulder Arthiritis	4
57	Tumor workup	2
58	Spinal Stenosis	2
59	Spinal cord Injury	4
60	Infections of spine	4
61	Nerve Entrapment upper limb	3
62	Casting upper extremity fractures	4
63	Benign tumors of bone	4
64	Tumor like conditions	4
65	Fractures around the shoulder	4
66	Septic Arthritis	2
67	Nerve Entrapment	2
68	Peripheral Nerve Injuries	4
69	Orthopedic radiology	4
70	Foot deformity	4
71	Brachial plexus Lesion	4

72	Orthopedic Clinical Examinations	6
Total		265

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	Understand how diagnose and manage the following common diseases managed in ophthalmology.	Lectures, SGD, BST, Student Presentations, Clinics	Continuous, formative and summative assessment
1.2	Understand how diagnose and manage the following common diseases managed in otolaryngology.	Lectures, SGD, BST, Student Presentations, Clinics	Continuous, formative and summative assessment
1.3	Understand how diagnose and manage the following common diseases managed in orthopedics.	Lectures, SGD, BST, Student Presentations, Clinics	Continuous, formative and summative assessment
2.0	**Skills**		
2.1	Perform a concise history taking.	BST, Clinics	Continuous, formative and summative assessment
2.2	Perform common ophthalmology examinations and clinical procedures.	BST, Clinics	Continuous, formative and summative assessment
2.3	Perform the common otolaryngology examinations.	BST, Clinics	Continuous, formative and summative assessment
2.4	Perform the common Orthopedic examinations.	BST, Clinics	Continuous, formative and summative assessment
2.5	Demonstrate presentation skills.	Student Presentations, BST, Clinics	Continuous, formative and summative assessment
3.0	**Values**		
3.1	Learn bedside manners, confidentiality of patient history as well as the ethics in dealing with patients in the clinic.	SGD, BST, Clinics	Continuous, formative and summative assessment
3.2	Identification of urgent cases and their management	SGD, BST, Clinics	Continuous, formative and

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
			summative assessment
3.3	Adhere to the attendance policy.		Continuous assessment
3.4	Demonstrate interpersonal skills necessary to maintain professionalism, communicate appropriately with patients, their families, and other medical and paramedical personnel involved in patient care.		Continuous assessment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Student presentations	1-9	20%
2	OSCE	3,6,9	40%
3	Final Exam	9	40%

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

The CoM program established its own mentorship program that employs all full-time faculty as mentors. Through this program, every medical student in the program is assigned a mentor at the beginning of their first semester of studies. The program has a broad scope covering academic advising and counseling. The mentors handle all aspects related to academic advising, including academic planning, academic performance review, advice on course drop or withdrawal, study skills, and time management.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	• Robert L. Nussbaum, Roderick R. McInnes, Huntington F. Willard. Thompson & Thompson Genetics in Medicine. 8th Edition. 2015. Saunders. • Pamela Champe, Richard Harvey, Denise Ferrier. Biochemistry. Lippincott's Illustrated Reviews. 3rd edition. 2005. Lippincott Williams & Wilkins. (chapter 29 only)
Essential References Materials	• American Academy book for medical Students • Ophthalmology Lecture Notes by Bruce James • Basic Ophthalmology by Cynthia A. Bradford • Vaughan and Asbury's General Ophthalmology by Paul Riordan-Eva
Electronic Materials	PowerPoint presentations uploaded on Alfaisal E-learning Portal Journals listed in the course booklet

	Examination libraries listed in course booklet
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms
Technology Resources (AV, data show, Smart Board, software, etc.)	AV (Audio-Visual), Smartboard, Moodle (E-learning Management)
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course and Faculty Evaluation Survey	Students	Survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	