

Kingdom of Saudi Arabia

**The National Commission for Academic Accreditation &
Assessment**

COURSE SPECIFICATION

Opto 492 Case analysis

Revised March 2012

Course Specification

Institution	King Saud University
College/Department: College of Applied Medical Sciences/Rehabilitation Sciences/Physical Therapy	

A Course Identification and General Information

1. Course title and code: Case analysis Opto 492
2. Credit hours: 2
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Physical Therapy
4. Name of faculty member responsible for the course Ibrahim Almahuby.
5. Level/year at which this course is offered Level 8/ Fourth year
6. Pre-requisites for this course ; Opto 364
7. Co-requisites for this course: None

B Objectives

1. In this course, analysis of optometric cases will be discussed. Selected cases from optometry clinics will be written up and presented by the student in a concise and professional manner. In a seminar setting each case will be presented for discussion; incorporating the entering complaints, objective and subjective findings, analysis of data, diagnosis and planned course of therapy. The course also includes important subjects to be covered that are presented in an open discussion between the tutorial and the students, that should prepare it first then take home notes are given to the students. These subjects include Symptoms and signs of refractive errors, Causes of sudden loss of vision, , Headaches, Cycloplegic refraction, Presbyopia, Heterophoria and glasses prescription, Astigmatic prescription, prescription in childhood and infancy, refractive changes in some ocular diseases and after ocular operations, Problems of accommodation, Refractive error correction; surgical versus nonsurgical methods.

C. Course Description

1. TOPICS to be COVERED	No. of Weeks	Contact Hours
Case presentations + (discussion title: History taking, Schedule of examination) + (demonstration of how to prepare and present a case)	1	2
Case presentations + (discussion title: Symptoms and signs of refractive errors)	1	2
Case presentations + (discussion title: Causes of sudden and gradual loss of vision)	1	2
Case presentations + (discussion title: Headaches)	1	2
Case presentations + (Quiz on refraction)	1	2
Case presentations + (discussion title: Cycloplegic refraction)	1	2
Case presentations + (discussion title: Presbyopia)	1	2
Case presentations + (discussion title: Heterophoria and glasses prescription)	1	2
Case presentations + (discussion title: Astigmatic prescription)	1	2
Case presentations + (discussion title: Amblyopia)	1	2
Case presentations + (discussion title: prescription in childhood and infancy)	1	2
Case presentations + (discussion title: refractive changes in some ocular diseases)	1	2
Case presentations + (discussion title: refractive changes after ocular operations)	1	2
Case presentations + (Quiz : Problems of accomodation)	1	2
Case presentations + (discussion title: Refractive error correction; surgical versus nonsurgical methods)	1	2

(Total contact hours per semester):

Lecture: 5 hours	Tutorial : 10	Presentation 15 hours	Students spend a minimum of 8 hours per week in preparing their cases and assignments presentations
------------------------	---------------------	------------------------------	---

Development of Learning Outcomes in Domains of Learning

a. Knowledge

(i) Description of the knowledge to be acquired:

By the end of the course the student should know how to present any optometric case in a concise and professional manner; incorporating the entering complaints, objective and subjective findings, analysis of data, diagnosis and planned course of therapy. They should also know some important practice related subjects like Symptoms and signs of refractive errors, Causes of sudden loss of vision, , Headaches, Cycloplegic refraction, Presbyopia, Heterophoria and glasses prescription, Astigmatic prescription, prescription in childhood and infancy, refractive changes in some ocular diseases and after ocular operations, Problems of accommodation, Refractive error correction; surgical versus nonsurgical methods.

(ii) Teaching strategies to be used to develop that knowledge

- In this course, analysis of optometric cases will be discussed. Selected cases from optometry clinics will be written up and presented by the student in a concise and professional manner. In a seminar setting each case will be presented for discussion.
- The course also includes important subjects to be covered that are prepared by the students then presented for open discussion between the tutorial and the students, then take home notes are given by the tutorial to the students.
- Quizzes about discussion items
- Simulating cases and situations are presented for discussion

(iii) Methods of assessment of knowledge acquired

- quizzes, take home assignments, Check list evaluation modules on case presentations

b. Cognitive Skills

(i) Cognitive skills to be developed

- Critical thinking
- Problem solving
- Judgment call

(ii) Teaching strategies to be used to develop these cognitive skills

- Take home: Students will be given a problem that needs to be solved
- **Comprehensive history of variable clinical cases will be presented to students and they will be asked to formulate a treatment plan.**

(iii) Methods of assessment of students cognitive skills

- Take home: projects need to be presented and will be evaluated accordingly.
- Clinical cases related question will be discussed in the formate of group discussion.
- QUIZZES

c. Interpersonal Skills and Responsibility

(i) Description of the interpersonal skills and capacity to carry responsibility to be developed

- How to communicate with patients, instructors, and clinical staff.
- How to deliver information to patients in a professional way.
- Teach students how to deal with different patients' personalities and attitudes.
- Give assignments to students
- Total patients' care including arranging patients' appointment, treatment and follow up.

(ii) Teaching strategies to be used to develop these skills and abilities

- Students will be trained on simulating situations
- Students will be assigned to a particular **SUBJECTS THAT COVER ONE CASE SITUATION** and will be held responsible
- Students are required to make an oral presentations of their cases
- Audio-visual way of training will be implemented to expose students to different patient-health care professional situations

(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility

- Direct evaluation of take home projects & treatment plan presentation and discussion need to be presented and/or discussed

d. Communication, Information Technology and Numerical Skills

(i) Description of the skills to be developed in this domain.

HOW TO PREPARE ORAL PRESENTATION

How to use clinical software

How to search and use the internet to cope with the course demand

(ii) Teaching strategies to be used to develop these skills

- hands on training on different softwares like Microsoft office and specialized clinical programs in preparing the cases.

(iii) Methods of assessment of students numerical and communication skills

-Direct evaluation of take home projects & treatment plan presentation and discussion need to be presented and/or discussed

e. Psychomotor Skills;

(i) Description of the psychomotor skills to be developed and the level of performance required

- Students should learn how to control his/her emotions as well as handle such circumstances under different stressful situations.
- Student should be able to perform proper treatment under stressful circumstances
- Student should be properly coordinate between manual dexterity and knowledge about proper teeth preparation and / or procedures.
- The level of psychomotor skills must meet the international standards

(ii) Teaching strategies to be used to develop these skills

- Audio visual demonstration of different clinical situations
- Practical assignments where a specific time limit is given to the student
- Assignments where student should perform a practical demonstration in front of his colleagues
- Extensive preclinical training on different types of teeth preparation and / or clinical procedures.

(iii) Methods of assessment of students psychomotor skills

- Students will be evaluated for different assignments.
- Oral examination
- Practical examination
- Check points (step-by-step) evaluation to ensure that student has mastered each procedure before proceeding to next one.

5. Schedule of Assessment Tasks for Students During the Semester

Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	AssignmentS. (1 presentation for each student)	One every week	10
2	Case presentations (4 presentation for each student distributed along the course)	4 per week	60
3	3 Quizzes	One very 3 weeks	30

D. Student Support

1. Arrangements for availability of faculty for individual student consultations and academic advice. (include amount of time faculty are available each week)

Each group of students is assigned to a particular faculty where he or she will provide academic counselling during specific academic hours

E Learning Resources

1- Essential References:

- *Manual of Refraction*, Albert E. Sloan et.al, (Published by Little Brown and Co.)
- *Eye examination and refraction*, R. Feletcher and D.C.Still, (Published by blackwell science)

2- Electronic Materials, Web Sites :

<http://www.bausch.com>

<http://www.willseye.org>

[http:// www.medem.com/medlb/bufferpage_aao.cmf](http://www.medem.com/medlb/bufferpage_aao.cmf)

<http://www.aao.org>

<http://www.arvo.org/root/index.asp>

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Lecture rooms, laboratories, etc.)
2. Computing resources
3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list)