114-1 Full Curriculum of Da-Yeh University

Information			
Title	Basic Refraction	Serial No./ID	0664 /OPA2004
Required/Credit	Required /2	Time/Place	(Thu)34 /P404-2
Language	Chinese/English	Grade Type	Number
Lecturer /Full- or Part-time	陳秀灤 /Full-time	Graduate Class	Non-graduating Class
School System /Dept /Class, Grade	/Department of Optometry /Class 1, Grade 2		
Office Hour / Place	(Wed) 11:10~12:00, (Wed) 13:20~14:10, (Wed) 14:20~15:10, (Thu) 15:20~16:10 / H411		
Lecturer	n.a.		

Introduction

課程內容主要為系統化驗光技術之理論，使學生能學習並理解基礎驗光學，掌握其基本原理及方法論。

Outline

1 Visual acuity
2 Retinoscopy(Sph)
3 Retinoscopy(Sph + Cyl)
4 Human eye retinoscopy
5 Keratometry
6 Lensometry
7 Entrance test(PD, Pupil test)
8 Entrance test(NPA, NPC)
9 Entrance test(Cover test, EOM)
10 Midterm exam
11 Ophthalmoscopy
12 Ophthalmoscopy
13 Visual field
14 Visual field
15 Color vision
16 Stereoscopy
17 Stereoscopy
18 Finalexam

Prerequisite

1. 幾何光學
2. 視覺科學

The Relationship Between Courses and Departmental Core Competencies and Basic Skills

- The professional knowledge and ability of Optometry
- The capacities in research of Vision science
- The capacities in clinical application of Optometry
- The ability of analysis, judgment and independent thinking

Teaching Plan						
Core Capability	Weight(%)【A】	Ability index(Performance Indicators)	Teaching Methods	Assessment and Weight	Core Competency Learning Outcomes【B】	Final Exam Grades【C=B*A】
The professional knowledge and ability of Optometry	30	Understanding of the content of the optometrists curriculum Understanding of professional technical and operational of optometry	Lecturing	Class Notes: 10% Peer Assessment: 5% Homework Assignment: 10% Final Exam: 30% Midterm Exam: 30% Quiz: 10% Number of Logging Online/ Message Online/ Class Pa: 5%	Total: 100	30
The capacities in research of Vision science	25	Understanding of the vision science curriculum The ability to study visual scientific papers	Lecturing	Class Notes: 10% Peer Assessment: 5% Homework Assignment: 10% Final Exam: 30% Midterm Exam: 30% Quiz: 10% Number of Logging Online/ Message Online/ Class Pa: 5%	Total: 100	25
The capacities in clinical application of Optometry	30	Complete the Inspection refractive errors and preparation of glasses Familiar with the store management	Lecturing	Quiz: 10% Midterm Exam: 30% Final Exam: 30% Homework Assignment: 10% Peer Assessment: 5% Class Notes: 10% Number of Logging Online/ Message Online/ Class Pa: 5%	Total: 100	30

The ability of analysis, judgment and independent thinking	15		Lecturing	Quiz: 10% Midterm Exam: 30% Final Exam: 30% Homework Assignment: 10% Peer Assessment: 5% Class Notes: 10% Number of Logging Online/ Message Online/ Class Pa: 5%	Total: 100	15

Grade Auditing
Final Exam: 30% Midterm Exam: 30% Class Notes: 10% Quiz: 10% Homework Assignment: 10% Peer Assessment: 5% Number of Logging Online/ Message Online/ Class Pa: 5%

Book Type (Respect intellectual property rights. Please use official textbooks and do not illegally photocopy others' works.)		
Book Type	Book name	Author
Reference Books	視光臨床實務-眼睛檢測步驟及操作技巧	孫涵瑛等人
Reference Books	視光學	尤振宇等人
Reference Books	Clinical Procedures for Ocular Examination	Nancy B.Carlson, Daniel Kurtz
Reference Books	Clinical Procedures in Primary Eye Care	David B.Elliott
Reference Books	Optometry:Science Techniques and Clinical Management	Mark Rosenfield,Nicola Logan
Reference Books	Clinical Management of Binocular Vision : Heterophoric, Accommodative, and Eye Movement Disorders	Mitchell Scheiman,Bruce Wick
Reference Books	Borish's Clinical Refraction	William J.Benjamin

Reference Books	Primary Care Optometry	Theodore Grosvenor OD PhD FAAO

Lesson Plan

Weeks	Content	Teaching Methods
1	Course Introduction & Intellectual Property Rights Awareness (Including the importance of using licensed textbooks),Case History & PD measure & Intellectual Property Protection (use legitimate textbooks only) & Traffic safety Propaganda & Gender equality education promotion	Lecturing
2	Visual Acuity	Lecturing
3	Retinoscopy &Schematic Eye、 Working Distance	Lecturing
4	Entrannce test of Pupil testing	Lecturing
5	Entrannce test of Hirschberg Test, Bruckner Test	Lecturing
6	Ametropia	Lecturing
7	Ametropia	Lecturing
8	Midterm exam	Written Examination
9	Retinoscopy	Lecturing
10	Tropia and Amblyopia	Lecturing
11	Entrannce test of ocular motility	Lecturing
12	Entrannce test of NPC、NPA	Lecturing
13	Color vision	Lecturing
14	Stereoscopy	Lecturing
15	Visual Acuity	Lecturing
16	Midterm exam	Written Examination
17	Flexible Teaching & Flexible Teaching/Learning	Flexible Teaching - Independent Action
18	Flexible Teaching & Flexible Teaching/Learning	Flexible Teaching - Independent Action