

## Course Description Form

| 1. Course Name: Refractive errors                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
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| 2. Course Code:                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| 3. Semester / Year:1-2 2023/2024                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| 4. Description Preparation Date:2024-2023                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| 5. Available Attendance Forms: Daily attendance                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| 6. Number of Credit Hours (Total) / Number of Units 2 Hours (Total) 30 week |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| 7. Course administrator's name (mention all, if more than one name)         |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| Name: Safaa Mohammed Ridha Hussien                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| Email: safaa_m333@yahoo.com                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| 8. Course Objectives                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| Course Objectives                                                           | It includes a description of the subject, the purpose of studying it, and the philosophy of teaching it, as this course aims to study the principles of refractive errors, the most important special laws regarding refractive errors that occur in the eye, the importance of studying each error, its classifications, methods of treatment, and determining the location of the refractive error and its harm to human health. |                            |                      |                                |                               |
| 9. Teaching and Learning Strategies                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| Strategy                                                                    | 1. Education Strategy Collaborative Concept Planning<br>2- Brainstorming education strategy.<br>3. Education Strategy Notes Series<br>4- Presentation, training, discussion research and reports                                                                                                                                                                                                                                   |                            |                      |                                |                               |
| 10. Course Structure                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                      |                                |                               |
| Week                                                                        | Hours                                                                                                                                                                                                                                                                                                                                                                                                                              | Required Learning Outcomes | Unit or subject name | Learning method                | Evaluation method             |
| 1                                                                           | 2                                                                                                                                                                                                                                                                                                                                                                                                                                  | Knowledge                  | Light                | Use the whiteboard and display | Daily exam and oral questions |
| 2                                                                           | 2                                                                                                                                                                                                                                                                                                                                                                                                                                  | Knowledge                  | Mirror               | Use the whiteboard and display | Daily exam and oral questions |

|    |   |           |                                                                                                                    |                                |                               |
|----|---|-----------|--------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|
| 3  | 2 | Knowledge | Lens                                                                                                               | Use the whiteboard and display | Daily exam and oral questions |
| 4  | 2 | Knowledge | TRIAL CASE                                                                                                         | Use the whiteboard and display | Daily exam and oral questions |
| 5  | 2 | Knowledge | Emmetropia & Ammetropia                                                                                            | Use the whiteboard and display | Daily exam and oral questions |
| 6  | 2 | Knowledge | Visual acuity and Instrument of test<br>Refractive Error & Visual Acuity<br>Common Visual Defects in The Human Eye | Use the whiteboard and display | Daily exam and oral questions |
| 7  | 2 | Knowledge | Instrument of test                                                                                                 | Use the whiteboard and display | Daily exam and oral questions |
| 8  | 2 | Knowledge | V.A. in child                                                                                                      | Use the whiteboard and display | Daily exam and oral questions |
| 9  | 2 | Knowledge | V.A. in n child                                                                                                    | Use the whiteboard and display | Daily exam and oral questions |
| 10 | 2 | Knowledge | Retinoscope I                                                                                                      | Use the whiteboard and display | Daily exam and oral questions |
| 11 | 2 | Knowledge | Retinoscope II                                                                                                     | Use the whiteboard and display | Daily exam and oral questions |
| 12 | 2 | Knowledge | Refractive error                                                                                                   | Use the whiteboard and display | Daily exam and oral questions |
| 13 | 2 | Knowledge | Myopia sign & symptoms<br>Myopia-correction methods                                                                | Use the whiteboard and display | Daily exam and oral questions |

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| 14 | 2 | Knowledge | Hypermetropia sign & symptoms<br>Revision           | Use the whiteboard and display | Daily exam and oral questions |
| 15 |   |           | examination                                         | Use the whiteboard and display | Daily exam and oral questions |
| 16 | 2 | Knowledge | Stigmatism I                                        | Use the whiteboard and display | Daily exam and oral questions |
| 17 | 2 | Knowledge | Stigmatism II                                       | Use the whiteboard and display | Daily exam and oral questions |
| 18 | 2 | Knowledge | Color blindness                                     | Use the whiteboard and display | Daily exam and oral questions |
| 19 | 2 | Knowledge | Writing prescription                                | Use the whiteboard and display | Daily exam and oral questions |
| 20 | 2 | Knowledge | Reading prescription for different types of glasses | Use the whiteboard and display | Daily exam and oral questions |
| 21 | 2 | Knowledge | Transposition                                       | Use the whiteboard and display | Daily exam and oral questions |
| 22 | 2 | Knowledge | Introduction of low vision and types                | Use the whiteboard and display | Daily exam and oral questions |
| 23 | 2 | Knowledge | Instrument and Device uses in low vision            | Use the whiteboard and display | Daily exam and oral questions |
| 24 | 2 | Knowledge | Test of low vision (Far and Near)                   | Use the whiteboard and display | Daily exam and oral questions |
| 25 | 2 | Knowledge | Magnification on lenses                             | Use the whiteboard and display | Daily exam and oral questions |
| 26 | 2 | Knowledge | Trial case                                          | Use the whiteboard and display | Daily exam and oral questions |

|    |   |           |                                    |                                |                               |
|----|---|-----------|------------------------------------|--------------------------------|-------------------------------|
| 27 | 2 | Knowledge | Visual field                       | Use the whiteboard and display | Daily exam and oral questions |
| 28 | 2 | Knowledge | Examination of patients clinically | Use the whiteboard and display | Daily exam and oral questions |
| 29 | 2 | Knowledge | Revision                           | Use the whiteboard and display | Daily exam and oral questions |
| 30 |   |           | Exam                               |                                |                               |

#### 11.Course Evaluation

5 marks are calculated on reports  
5 points are calculated on daily exams  
5 degrees are calculated on the daily preparation  
And the rest of the grade is for the monthly exams

#### 12.Learning and Teaching Resources

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| Required textbooks (curricular books, if any)                      | Management of Refractive Errors & Prescription of Spectacles, ISBN 9789351528845, Speciality: Ophthalmology, Edition1/e, Publishing Year 2015, Pages 168, DOI10.5005/jp/books/12584                                                                                                                                                                                                                                                                                 |
| Main references (sources)                                          | <a href="https://doi.org/10.1080/08164622.2022.2153582">https://doi.org/10.1080/08164622.2022.2153582</a>                                                                                                                                                                                                                                                                                                                                                           |
| Recommended books and references (scientific journals, reports...) | Refraction Of The Eye, Its Diagnosis And The Correction Of Its Errors: With A Chapter On Keratotomy (1882) Paperback – October 1, 2008 paperback : 72 pages, ISBN-10 : 1437029795, ISBN-13 : 978-1437029796, Item Weight : 3.84 ounces, Dimensions : 6 x 0.15 x 9 inches, <a href="https://www.amazon.com/Refractive-Errors-American-Academy-Ophthalmology/dp/1615255311">https://www.amazon.com/Refractive-Errors-American-Academy-Ophthalmology/dp/1615255311</a> |
| Electronic References, Websites                                    | <a href="https://www.amazon.com/Refractive-Errors-American-Academy-Ophthalmology/dp/1615255311">https://www.amazon.com/Refractive-Errors-American-Academy-Ophthalmology/dp/1615255311</a>                                                                                                                                                                                                                                                                           |

Dr. Safaa Mohammed Ridha Hussien

