**Course Code and Name:OPTO418 –Environmental Optometry**

**Units: 2+ 0 = 2 Credit Hours**

**Tutor: Dr. Kholoud Bokhary**

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Recommended textbooks:

1. Environmental and occupational optometry, Gordon Carson, Butterworth-Heinemann; 1st edition (December 4, 2008)

**Topics of the course**

Weekly Lectures

|  |  |  |
| --- | --- | --- |
| **Notes** | **Topic in details** | **Week** |
|  | Introduction to Environmental optometry and Occupational Health | **1** |
|  | Relationship of the eye and vision to all of the environment including home, work, recreation and transportation | **2** |
|  | **Protecting the eye from injuries**   * Construction and design of eye protectors * Mechanical Ocular Injuries * Non Mechanical Ocular Injuries | **3** |
|  | **Maximizing Visual Performance**   * Vision Screening * Visual performance efficiency | **4** |
|  | **MIDTERM EXAM # 1** | **5** |
|  | **Industrial ophthalmic performance for motor vehicle and machinery licensing**   * Vision and driving | **6** |
|  | * Eye Protection-standards & statutes * Eye Protection-Appliances & materials | **7** |
|  | Lamps and lighting | **8** |
|  | **Visual display units**   * Sunglasses & sports eye wear * Color vision & color coding | **9** |
|  | **MIDTERM EXAM # 2** | **10** |
|  | **Current and future uses of eye and vision with new technologies.**   * Computer vision syndrome | **11** |
|  | **Assignment and presentation** | **12** |

**Course Assessment methods**

|  |  |
| --- | --- |
| Task/ Exam | Marks % |
| Midterm exam 1 | 20 |
| Midterm exam 2 | 20 |
| Assignment | 20 |
| Final Exam | 40 |
| Total | 100 |

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