

HIGHER NITEC IN OPTICIANRY (2 YEARS)

CERTIFICATION

Credits required for certification:

Foundation Modules	: 6
Specialisation Modules	: 41
Life Skills Modules	: 9
Cross Disciplinary Core Modules	: 6
Elective Modules	: 6
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Total	: 68

COURSE STRUCTURE

Module Title	Credits
FOUNDATION MODULES	
Basic Opticianry Dispensing 1	3
Basic Opticianry Dispensing 2	3
SPECIALISATION MODULES	
Basic Ocular Anatomy & Common Eye Conditions	3
Basic Ophthalmic Optics	3
Ophthalmic Instrumentation & Techniques 1	3
Ophthalmic Instrumentation & Techniques 2	3
Ophthalmic Lens Processing 1	3
Ophthalmic Lens Processing 2	3
Fundamental Optics	3
Refraction 1	3
Refraction 2	3
Ophthalmic Dispensing (Presbyopia)	3
The Opticianry Eye Exam	3
Industry Attachment	8
CROSS DISCIPLINARY CORE MODULES	
Business Communication for Opticians	3
Customer Service & Retail Operations	3
Basic Math for Opticians	3
ELECTIVES (COURSE SPECIFIC)	
Growing Our Character	2
Personal Grooming & Wellness	2
Physiological Optics	2
Impact of Myopia	2
LIFE SKILLS MODULES	
For details, click here	

Note: The offer of electives is subject to the training schedule of respective ITE Colleges. Students are advised to check with their Class Advisors on the availability of the elective modules they intend to pursue.

MODULE OBJECTIVES

Foundation Modules

Basic Opticianry Dispensing 1

On completion of the module, students should be able to perform spectacle dispensing related skills by measuring pupillary distance and performing automated focimetry.

Basic Opticianry Dispensing 2

On completion of the module, students should be able to perform frame adjustment and fitting. They should also be able to perform basic frame repair.

Specialisation Modules

Basic Ocular Anatomy & Common Eye Conditions

On completion of the module, students should be able to identify the basic anatomy of the eye and associated common eye diseases. They should also be able to capture fundus images and perform non-contact tonometry.

Basic Ophthalmic Optics

On completion of the module, students should be able to interpret optical prescription, identify optical lens properties (material, coating) and perform frame measurements. They should also be able to provide advice on correction of vision with optical aids.

Ophthalmic Instrumentation & Techniques 1

On completion of the module, students should be able to perform manual focimetry and lens verification.

Ophthalmic Instrumentation & Techniques 2

On completion of the module, students should be able to perform visual acuity measurement, colour vision check and auto refraction.

Ophthalmic Lens Processing 1

On completion of the module, students should be able to edge and prepare full frame glasses and perform manual lens processing techniques such as hand edging, pattern making, lens tinting. They should also be able to verify the completed optical product.

Ophthalmic Lens Processing 2

On completion of the module, students should be able to edge and prepare both rimlon and rimless glasses. They should also be able to verify the completed optical product.

Fundamental Optics

On completion of the module, students should be able to perform optical calculations pertaining to photometry and various lens forms.

Refraction 1

On completion of the module, students should be able to perform history taking, spherical power check and binocular balancing.

Refraction 2

On completion of the module, students should be able to perform an astigmatism test and near addition check.

Ophthalmic Dispensing (Presbyopia)

On completion of the module, students should be able to perform frame selection, measure major placement points and various ophthalmic measurements for presbyopic optical correction.

The Opticianry Eye Exam

On completion of the module, students should be able to perform a full opticianry eye exam including history taking, refraction and patient management.

Industry Attachment

On completion of the module, students should be able to integrate and apply the skills and knowledge acquired at ITE College, and further develop competencies at the workplace.

Cross Disciplinary Core Modules

Business Communication for Opticians

On completion of the module, students should be able to apply essential communication skills to build professional relationships, and prepare business documents as well as presentations.

Customer Service & Retail Operations

On completion of the module, students should be able to apply the appropriate concepts and skills in the management of an optical outlet and communicate effectively with customers in providing quality customer service.

Basic Math for Opticians

On completion of the module, students should be able to understand basic mathematical principles and to apply knowledge to solve ophthalmic problems in a clear and logical way.

Electives (Course Specific)

Growing Our Character

On completion of the module, students should be able to apply the strategies for cultivating and building good character, anchored on ITE's core values.

Personal Grooming & Wellness

On completion of the module, students should be able to maintain personal hygiene, grooming and plan a suitable wardrobe. They should also be able to maintain personal wellness.

Physiological Optics

On completion of the module, students should be able to apply the concept of visual and colour perceptions pertaining to relevant ocular checks. They should also be able to understand the science behind vision and related visual phenomenon.

Impact of Myopia

On completion of the module, students should be able to articulate the impact of myopia in increasing the risk of vision impairment. They should also be able to understand the social and economic impacts of myopia.

Life Skills Modules

For details, click [here](#).