HIGHER NITEC IN OPTICIANRY (3 YEARS)

CERTIFICATION

Credits required for certification:

Foundation Modules	:	24
Specialisation Modules	:	45
Life Skills Modules	:	10
Cross Disciplinary Core Modules	:	9
Elective Modules	:	8
Total	:	96

COURSE STRUCTURE

Module Title	Credits
FOUNDATION MODULES	
Introduction to the Human Body	3
Professional Practice in Health Services	3
Visual Correction	3
Introduction to Eyecare	3
Basic Opticianry Dispensing 1	3
Opticianry Communication	3
Community-based Vision Care	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 1	4
Industry Attachment 2	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

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Module Title	Credits
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

Introduction to the Human Body
On completion of the module, students should be able to identify the key anatomical structures, and describe the primary function and associated common disorders of the various body systems.

Professional Practice in Health Services
On completion of the module, students should be able to articulate the roles and responsibilities of professionals in health services. They should be effective team players and demonstrate professional behaviours based on the code of conduct for health services.

Visual Correction
On completion of the module, students should be able to identify the types and functions of various optical and non-optical corrections such as spectacles, contact lenses and surgery.

Introduction to Eyecare
On completion of the module, students should be able to perform documentation of an eye exam and write a referral to appropriate eyecare professionals. They should also be able to perform proper disinfection and cleaning procedures.

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.

Opticianry Communication
On completion of the module, students should be able to communicate effectively to establish patient's purpose of visit. They should also be able to communicate on refractive error and advice on handling/care of optical aids.

Community-based Vision Care
On completion of the module, students should be able to design and implement a community eyecare programme to provide several aspects of eyecare to the community. They should also be able to demonstrate good team work by engaging effectively with each other and producing a good outcome.

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.