

*Republic of Iraq*  
*Ministry of Higher Education & Scientific Research*  
*Supervision and Scientific Evaluation Directorate*  
*Quality Assurance and Academic Accreditation*

## *Academic Program Specification Form For The Academic*

*University: Middle Technical University*  
*College : Health & Medical technology/Baghdad*  
*Department : Opical techniques*  
*Date Of Form Completion : 18/10/2016*

*Dean ' s Name*

*Date :    /    /*

*Signature*

*Dean ' s Assisty For  
Scientific Affairs*

*Date :    /    /*

*Signature*

*Head of Department*

*Date :    /    /*

*Signature*

*Quality Assurance And University Performance Manager*

*Date :    /    /*

*Signature*

## TEMPLATE FOR PROGRAMME SPECIFICATION

### HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

#### PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the programme.

1. Teaching Institution	Middle Technical University
2. University	Health Medical Technology /Baghdad
3. Department/Centre	Optical techniques department
4. Title of Final Award	BSc in Optical Techniques
5. Modes of Attendance offered	Full time
6. Accreditation	Theoretical & Practical
7. Other external influences	Library –Internet- laboratory- hospitals
8. Date of production/revision of this specification	18/10/2016
9. Aims of the Programme	
1. Department of optical technologies aimed to graduate specialist to work in hospitals and health centers, the hospitals and private clinics and workshops.	
2. Students are able to examine the eye	
3. Students are able to determine the degree of vision and strabismus.	
4. Students are able to install lenses for glasses and good use of computers in the checks and repair glasses.	
5. Students are able to describe eyeglasses and contact lenses, and the proposed in-kind visual alternatives.	

6. Students are able to pay attention to medical and optical equipmentS and take care of them.

## 10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding: The students are able to:

A1- apply information and practical exercises in the hospital.

A2- regulate cognitive information and kept in memory for use in preparation and functionally.

A3- analyze the results and uses them to solve problems and obstacles to reach satisfactory results.

A4- continue thinking and creativity according to scientific and intellectual data

B. Subject-specific skills: The students are able to:

B1 - think on a scientific basis properly.

B2 -work as team.

B3 - work on solving the problems and obstacles in a manner purely practical.

B4 - resolve obstacles in intellectual manner and according to the available data.

### Teaching and Learning Methods

1.Classroom education through scientific lectures

2. Preparation of reports and research.

### Assessment methods

1.Exam or feedback

2 .Daily activities.

3. Research and writing reports.

C. Thinking Skills

C1- work as a team

C2- abide by the ethics of university institution

C3- receive and accept knowledge

C4 - love the work

### Teaching and Learning Methods

1- tasks assigned to students in the form of home work.

2 .preparation of research reports and by making use of the library and the Internet

### Assessment methods

1.Note the duties and have the solution

2. the work of a questionnaire for students

D. General and Transferable Skills (other skills relevant to employability and personal development)  
 D1-skill diction and express an opinion on the lecture  
 D2- skill discussion in the lecture  
 D3-solving skills through homework problems  
 D4-skill group's management through the selection of students each week overseeing the receipt of what they are doing and duties.

Teaching and Learning Methods

- 1.theoretical lectures
- 2.Use (PowerPoint)
- 3.practical lectures.

Assessment Methods

- 1.Practical exams
- 2 .Exam or feedback (Feedback)
- 3.Homework
- 4.Final exams

11. Programme Structure

11. Programme Structure			12. Awards and Credits
Level/Year	Course or Module Title	Credit rating	
1 <sup>st</sup> class / 2016/2017	Head , neck and eye anatomy	180	Bachelor Degree Requires ( x ) credits
1 <sup>st</sup> class / 2016/2017	Biochemistry	180	
1 <sup>st</sup> class / 2016/2017	Physics	180	
1 <sup>st</sup> class / 2016/2017	Biology	180	
1 <sup>st</sup> class / 2016/2017	computer	90	
1 <sup>st</sup> class / 2016/2017	Human rights	60	
1 <sup>st</sup> class / 2016/2017	Medical terminology	60	
2 <sup>nd</sup> class / 2016/2017	Physiology of the eye and vision	120	
2 <sup>nd</sup> class / 2016/2017	Visual equipment and tools	180	

2 <sup>nd</sup> class / 2016/2017	Eye Health	180	
2 <sup>nd</sup> class / 2016/2017	Refraction Errors	180	
2 <sup>nd</sup> class / 2016/2017	Professional ethics	60	
3 <sup>rd</sup> class 2016/2017	Eye diseases	150	
3 <sup>rd</sup> class 2016/2017	eye diseases and neurological problems	150	
3 <sup>rd</sup> class 2016/2017	Strabismus	150	
3 <sup>rd</sup> class 2016/2017	Refraction errors	150	
3 <sup>rd</sup> class 2016/2017	pharmaceutical	60	
3 <sup>rd</sup> class 2016/2017	X Rays and sonar for eye	120	
3 <sup>rd</sup> class 2016/2017	Statistics	90	
3 <sup>rd</sup> class 2016/2017	computer	90	
4 <sup>th</sup> class / 2016/2017	Eye disease	180	
4 <sup>th</sup> class / 2016/2017	Strabismus	180	
4 <sup>th</sup> class / 2016/2017	Ophthalmology	180	
4 <sup>th</sup> class / 2016/2017	Eye glasses	180	
4 <sup>th</sup> class / 2016/2017	Ocular prosthesis	180	
4 <sup>th</sup> class / 2016/2017	research	-	
4 <sup>th</sup> class / 2016/2017	workshop	120	

13. Personal Development Planning

- 1 .Visit laboratories and workshops
2. Preparation of reports and seminars.

14. Admission criteria .

Centrally by the Ministry of Higher Education and Scientific Research

15. Key sources of information about the programme

1. Health and medical technology / Baghdad website
2. Middle Technical University Website

### Curriculum Skills Map

please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed

			Programme Learning Outcomes															
Year / Level	Course Title	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
			A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
2016/2017 1 <sup>ST</sup> class	Head , neck and eye	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Biochemistry	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Physics	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Biology	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	computer	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Human rights	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Med terminology	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

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Year / Level	Course Title	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
			A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
2016/2017 2 <sup>ND</sup> class	Physiology of the eye	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Visual equipment and	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Health of the eye	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Refraction errors	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Professional ethics	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√



**Curriculum Skills Map**

*please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed*

			<b>Programme Learning Outcomes</b>															
<i>Year / Level</i>	<i>Course Title</i>	<i>Core (C) Title or Option (O)</i>	<i>Knowledge and understanding</i>				<i>Subject-specific skills</i>				<i>Thinking Skills</i>				<i>General and Transferable Skills (or) Other skills relevant to employability and personal development</i>			
			<i>A1</i>	<i>A2</i>	<i>A3</i>	<i>A4</i>	<i>B1</i>	<i>B2</i>	<i>B3</i>	<i>B4</i>	<i>C1</i>	<i>C2</i>	<i>C3</i>	<i>C4</i>	<i>D1</i>	<i>D2</i>	<i>D3</i>	<i>D4</i>
<i>2016/2017 4<sup>TH</sup> class</i>	<i>Eye disease</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	<i>Strabismus</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	<i>Ophthalmology</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	<i>Eye glasses</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	<i>Ocular prosthesis</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	<i>research</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	<i>workshop</i>	<i>C</i>	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

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Year / Level	Course Title	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
			A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
2016/2017 3 <sup>RD</sup> class	Eye diseases	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	eye diseases and neurological problems	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Strabismus	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Refraction errors	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	pharmaceutical	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	X Rays and sonar for eye	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Statistics	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	computer	C	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

## TEMPLATE FOR COURSE SPECIFICATION

### HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

#### COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Middle technical university
2. University Department	College of health & Medical technology/Baghdad
3. Department	Optical techniques
5. Modes of Attendance offered	Weekly / theoretically and practically
6. Semester/Year	yearly
7. Number of hours tuition (total)	180
8. Date of production/revision of this specification	18/10/2016
9. Aims of the Course	
1. learn how to fabricate the ocular prosthesis	
2. Identify how to describe ocular prosthesis	
3. Identify the possibility of manufacturing the ocular prosthesis	

10. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1- students on how to make the ocular prosthesis.

A2- student recognizes the causes of facial deformities.

A3- students on how to recognize the remake the ocular prosthesis.

A4- students describes the ocular prosthesis.

B. Subject-specific skills

B-1 - the student acquires the skill of manufacturing the ocular prosthesis.

B 2 –the student skill modern practical methods applied in the manufacture of ocular prosthesis.

B 3 - The student acquires the skill in the maintenance of in-kind alternatives.

B4- the student acquires the skill of the use of the best ways to install ocular prosthesis..

Teaching and Learning Methods

1. Lectures

2. Use of data show

3. Use PC

Assessment methods

1. Quiz

2. Annual exams

3. Seminars

C. Thinking Skills

C1.- works as one team

C2- abide by the ethics of university institution

C3- receives and accepts knowledge

C4 -The student feels what the patients suffers

Teaching and Learning Methods

1. Lecturers Theoretical and practical

2. training of students in workshops and laboratories

Assessment methods

1. Quiz

2. Annual exams

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1- fosters student work in the workshops

D2- develops students' skills in the manufacture of the ocular prosthesis

D3- students acquire the ability to maintain the ocular prosthesis

D4- students have the ability to describe the ocular prosthesis.

## 11. Course Structure

Week	Hours	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	6 (2 Theoretical and 4 practical)	Anatomy of the face	Theoretical and practical	Quiz &attendance
2	6 (2 Theoretical and 4 practical)	Anatomy of the face	Theoretical and practical	Quiz &attendance
3	6 (2 Theoretical and 4 practical)	Causes of the eye damage and facial damage	Theoretical and practical	Quiz &attendance
4	6 (2 Theoretical and 4 practical)	Types of eye damage	Theoretical and practical	Quiz &attendance
5	6 (2 Theoretical and 4 practical)	Patient assessment for artificial eye	Theoretical and practical	Quiz &attendance
6	6 (2 Theoretical and 4 practical)	Materials used for ocular and orbital prostheses	Theoretical and practical	Quiz &attendance
7	6 (2 Theoretical and 4 practical)	Impression materials for ocular and orbital prosthesis	Theoretical and practical	Quiz &attendance
8	6 (2 Theoretical and 4 practical)	How to reconstruct the eye damage	Theoretical and practical	Quiz &attendance
9	6 (2 Theoretical and 4 practical)	How to reconstruct the eye damage and its associated structures	Theoretical and practical	Quiz &attendance
10	6 (2 Theoretical and 4 practical)	Impression of the eye defect	Theoretical and practical	Quiz &attendance
11	6 (2 Theoretical and 4 practical)	Impression of the eye and its associated structure	Theoretical and practical	Quiz &attendance
12	6 (2 Theoretical and 4 practical)	Developing the ocular model	Theoretical and practical	Quiz &attendance
13	6 (2 Theoretical and 4 practical)	Developing the facial model	Theoretical and practical	Quiz &attendance
14	6 (2 Theoretical and 4 practical)	Wax pattern the ocular defect	Theoretical and practical	Quiz &attendance
15	6 (2 Theoretical and 4 practical)	Wax pattern the facial defect	Theoretical and practical	Quiz &attendance
16	6 (2 Theoretical and 4 practical)	Try in anterior wax pattern on patient and make the modification	Theoretical and practical	Quiz &attendance
17	6 (2 Theoretical and 4 practical)	Construct the posterior wax pattern of missing eye	Theoretical and practical	Quiz &attendance
18	6 (2 Theoretical and 4 practical)	How to flask the eye wax pattern	Theoretical and practical	Quiz &attendance
19	6 (2 Theoretical and 4 practical)	Types of silicon material used in orbital prosthesis	Theoretical and practical	Quiz &attendance
20	6 (2 Theoretical and 4 practical)	Coloring the silicon material used in eye prosthesis	Theoretical and practical	Quiz &attendance
21	6 (2 Theoretical and 4 practical)	Curing the silicon material inside the mold of the flask wax pattern	Theoretical and practical	Quiz &attendance
22	6 (2 Theoretical and 4 practical)	Placement the ready made ocular prosthesis inside the anterior part of the eye prosthesis	Theoretical and practical	Quiz &attendance
23	6 (2 Theoretical and 4 practical)	Mounting the anterior part	Theoretical and	Quiz &attendance

	practical)	with the posterior part	practical	
24	6 (2 Theoretical and 4 practical)	Placement the ready made eyelash and eyebrow on the eye prosthesis	Theoretical and practical	Quiz &attendance
25	6 (2 Theoretical and 4 practical)	Trying eye prosthesis by insertion and removing	Theoretical and practical	Quiz &attendance
26	6 (2 Theoretical and 4 practical)	Complete finished eye prosthesis	Theoretical and practical	Quiz &attendance
27	6 (2 Theoretical and 4 practical)	Orbital implant for ocular prosthesis	Theoretical and practical	Quiz &attendance
28	6 (2 Theoretical and 4 practical)	Traditional Retention methods for orbital prosthesis	Theoretical and practical	Quiz &attendance
29	6 (2 Theoretical and 4 practical)	Bar and clip , magnetic implant to fix eye prosthesis	Theoretical and practical	Quiz &attendance
30	6 (2 Theoretical and 4 practical)	How to construct the combination ocular prosthesis, how to reline the ocular prosthesis , relining the ocular cavity	Theoretical and practical	Quiz &attendance

## 12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Textbook of maxillofacial rehabilitation
Special requirements (include for example workshops, periodicals, IT software, websites)	References
Community-based facilities (include for example, guest Lectures , internship , field studies)	Internet

## 13. Admissions

Pre-requisites	
Minimum number of students	20
Maximum number of students	40