

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB**  
(Formerly West Bengal University of Technology)

**Syllabus for Bachelors in Optometry Programme**  
(Effective for Students Admitted in Academic Session 2018-2019)

**CURRICULUM STRUCTURE**

**1<sup>ST</sup> YEAR**

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
<b>SEMESTER I</b>							
<b>Theory</b>							
1	BO-101	Geometrical Optics (Optics I)	3	1		4	4
2	BO-102	Physiology (General)	3	1		4	4
3	BO-103	Anatomy (General)	3	1		4	4
4	BO-104	Basics of Biochemistry	1	1		2	2
5	BO-105	Professional communication in English	1	1		2	2
<b>Practical</b>							
1	BO-191	Geometrical Optics- I	0	0	4	4	4
2	BO-192	Physiology (General)	0	0	2	2	2
3	BO-195	Effective Communication	0	0	2	2	2
<b>Total</b>			<b>24</b>				
<b>SEMESTER II</b>							
<b>Theory</b>							
1	BO-201	Physical Optics (Optics II)	3	1	0	4	4
2	BO-202	Ocular Physiology & Nutrition	3	1	0	4	4
3	BO-203	Anatomy (Ocular)	3	1	0	4	4
4	BO-204	Environment & Ecology	1	1	0	2	2
5	BO-205	Computer Fundamentals	1	1	0	2	2
<b>Practical</b>							
1	BO-291	Physical Optics II	0	0	4	4	4
2	BO-292	Computer	0	0	2	2	2
<b>Total</b>			<b>22</b>				

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**2<sup>ND</sup>YEAR**

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
<b>SEMESTER III</b>							
<b>Theory</b>							
1	BO-301	Visual Optics	3	0	0	3	3
2	BO-302	Binocular Vision & Ocular motility	2	1	0	3	3
3	BO-303	Medical pathology & Microbiology (general and ocular)	2	1	0	3	3
4	BO-304	Pharmacology	2	1	0	3	3
5	BO-305	Ophthalmic Instrumentation and procedure-I	2	1	0	3	3
<b>Practical</b>							
1	BO-391	Microbiology & Pathology	0	0	2	2	2
2	BO-392	Optical & Ophthalmic Instrumentation	0	0	3	3	3
<b>Total</b>			<b>20</b>				
<b>SEMESTER IV</b>							
<b>Theory</b>							
1	BO-401	Introduction to Vision Science	2	0	0	2	2
2	BO-402	Ocular Disease-I (Anterior Segment Disease)	2	1	0	3	3
3	BO-403	Clinical refraction I	2	1	0	3	3
4	BO-404	Ophthalmic Lens & Dispensing optics	2	1	0	3	3
5	BO-405	Ophthalmic Instrumentation & procedure-II	2	1	0	3	3
<b>Practical</b>							
1	BO-491	Clinical refraction I	0	0	2	2	2
2	BO-492	Ophthalmic Lens & Dispensing optics	0	0	2	2	2
3	BO-493	Ophthalmic Instrumentation & procedure-II	0	0	2	2	2
<b>Total</b>			<b>20</b>				

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**3<sup>RD</sup>YEAR**

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
<b>SEMESTER V</b>							
<b>Theory</b>							
1	BO-501	Low Vision Aids & Visual Rehabilitation	2	1	0	3	3
2	BO-502	Contact Lens	2	1	0	3	3
3	BO-503	Clinical Refraction II	2	1	0	3	3
4	BO-504	Ocular Disease II (Posterior and Neuro eye disease)	3	0	0	3	3
5	BO-505	Public Health and Community optometry	2	0	0	2	2
<b>Practical</b>							
1	BO-591	Low vision Aid and Visual Rehabilitation		0	2	2	2
2	BO-592	Contact Lens		0	2	2	2
3	BO-593	Clinical Refraction II		0	2	2	2
<b>Total</b>			<b>20</b>				
<b>SEMESTER VI</b>							
<b>Theory</b>							
1	BO-601	Systemic Condition & the eye	3	0	0	3	3
2	BO-602	Fundamentals of Clinical Research methods	2	1	0	3	3
3	BO-603	Specialized Contact lens	2	1	0	3	3
4	BO-604	Professional Practice Management	2	0	0	2	2
5	BO-605	Applied optometry and Orthoptics	2	1	0	3	3
<b>Practical</b>							
1	BO-693	Specialized Contact lens		0	3	3	3
2	BO-695	Applied optometry and Orthoptics		0	3	3	3
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<b>Semester – VII</b>							
<b>Practical</b>							
<b>1</b>	<b>BO-781</b>	<b>PROJECT WORK</b>			<b>20</b>		
<b>Total</b>					<b>20</b>		
<b>Semester – VIII</b>							
<b>Practical</b>							
<b>1</b>	<b>BO-881</b>	<b>INTERNSHIP-II</b>			<b>10</b>		
<b>2</b>	<b>BO-882</b>	<b>COMPREHENSIVE VIVA VOICE &amp; PROJECT(FINAL)</b>			<b>10</b>		
<b>Total</b>					<b>20</b>		

Honours degree requirements: Additional 16 credits from MOOCS of the MOOCS basket

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