

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

1ST YEAR

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
SEMESTER I							
Theory							
1	BO-101	Geometrical Optics (Optics I)	3	0		3	3
2	BO-102	Physiology (General)	3	1		4	4
3	BO-103	Anatomy (General)	3	0		3	3
4	BO-104	Basics of Biochemistry	1	1		2	2
5	BO-105	Professional communication in English	1	1		2	2
Practical							
1	BO-191	Geometrical Optics (Optics I)	0	0	2	2	2
2	BO-192	Physiology (General)	0	0	2	2	2
3	BO-193	Professional communication in English	0	0	2	2	2
Total			20				
SEMESTER II							
Theory							
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)	2	1	0	3	3
4	BO-204	Environment & Ecology	1	1	0	2	2
5	BO-205	Computer Fundamentals	1	1	0	2	2
Practical							
1	BO-291	Physical Optics (Optics II)	0	0	3	3	3
2	BO-292	Computer Fundamentals	0	0	2	2	2
Total			20				

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2ND YEAR

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
SEMESTER III							
Theory							
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
Practical							
1	BO-391	Medical pathology & Microbiology (general and ocular)	0	0	2	2	2
2	BO-392	Ophthalmic Instrumentation and procedure-I	0	0	3	3	3
Total			20				
SEMESTER IV							
Theory							
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
Practical							
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
Total			20				

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3RD YEAR

SL No	CODE	Paper	Contact Periods per week			Total Contact Hours	Credits
			L	T	P		
SEMESTER V							
Theory							
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
Practical							
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
Total			20				
SEMESTER VI							
Theory							
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
Practical							
1	BO-693	Specialized Contact lens		0	3	3	3
2	BO-695	Applied optometry and Orthoptics		0	3	3	3
Total			20				

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Semester – VII							
Practical							
1	BO-781	PROJECT WORK			20		
2							
Total					20		
Semester – VIII							
Practical							
1	BO-881	INTERNSHIP			10		
2	BO-882	COMPREHENSIVE VIVA VOICE			10		
Total					20		

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