

LESSON PLAN

Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year
Topic: Refractive conditions of eye Lesson Title: Emmetropia/Myopia Learning Outcomes: Students should be able to diagnose and correct myopia Specific Learning Objectives: <ol style="list-style-type: none"> 1. Enumerate sign and symptoms of myopia 2. Explain causes of myopia 3. Explain the correction of myopia 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector & laptop	Assessment Method Oral questioning
45 minutes	Detailed explanation of sign symptoms, causes and treatment of myopia		
10 minutes	Q & A Session, interactive doubt solving session		
List of Learning Resources Principles of Optics & Refraction—Duke Elder Optics & Refraction-- LPAggarwal			



DR. D.Y. PATIL INSTITUTE OF OPTOMETRY AND VISUAL SCIENCES

DR. D.Y. PATIL VIDYAPEETH, PUNE

(DEEMED TO BE UNIVERSITY)

Accredited by NAAC with CGPA of 3.64 on a 4 point scale at 'A++' Grade

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year
Topic: Refractive conditions of eye Lesson Title: Hyperopia Learning Outcomes: Student should be able to diagnose and correct hyperopia Specific Learning Objectives: <ol style="list-style-type: none"> 1. Enumerate sign and symptoms of hyperopia 2. Explain causes of hyperopia 3. Explain the correction of hyperopia 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: Day 1 10 minues	Activity Description Revision of the previous topic	Resources/A.V. Aids PPT/ projector & laptop	Assessment Method Class test
5 minutes	Introduction of the new topic		
35 minutes	Detailed explanation of sign symptoms, causes and treatment of hypermetropia		
10 minutes	interactive doubt solving session		
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Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year
Topic: Refractive conditions of eye Lesson Title: Astigmatism Learning Outcomes: Student should be able to diagnose and correct Astigmatism Specific Learning Objectives: <ol style="list-style-type: none"> 1. Enumerate sign and symptoms of hyperopia 2. Explain causes of hyperopia 3. Types of Astigmatism 4. Explain the correction of hyperopia 			
Instructional Method: power point presentation			
Duration: 80 minutes			
Time: 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector & laptop	Assessment Method Oral questioning
60 minutes	Detailed explanation of signs, symptoms & types of astigmatism		
15 minutes	Corrective measures for astigmatism		
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Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	
Batch: IInd year			
Topic: Refractive conditions of eye			
Lesson Title: presbyopia			
Learning Outcomes: Student should be able to diagnose and correct presbyopia			
Specific Learning Objectives:			
<ol style="list-style-type: none"> 1. Enumerate sign and symptoms of presbyopia 2. Explain cause of presbtopia 3. Explain the correction of presbyopia 			
Instructional Method: power point presentation			
Duration: 75 minutes			
Time: 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector & laptop	Assessment Method Class test
45 minutes	Detailed explanation of sign symptoms, cause and corrective measures for presbyopia		
10 minutes	Q & A Session, interactive doubt solving session		
List of Learning Resources			
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Optics & Refraction-- LPAgarwal			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year
<p>Topic: Accommodation Lesson Title: Mechanism & Components of Accomodation Learning Outcomes: At the end of the lecture students should be able to use phoropter Objectives:</p> <ol style="list-style-type: none"> 1. Explain the components of accommodation 2. Explain the mechanism of accommodation 3. Describe anomalies of accommodation 4. Methods for measurement of accomodation 			
Instructional Method: power point presentation			
Duration: 180 minutes			
Time: Day 1 Mechanism & Components of Accomodation	Activity Description	Resources/A.V. Aids PPT/ projector & laptop	Assessment Method Oral questions
10 minues	Revision of the previous topic		
5 minutes	Introduction of the topic		
35 minutes	Detailed explanation on Mechanism & Components of Accommodation		
10 minutes	Q & A Session, interactive doubt solving session		
Day 2 Anomalies of accommodation			
10 minutes	Revision of the previous topic		
40 minutes	Anomalies of accommodation		
10 minutes	Q & A Session,		

Day 3 measurement of accommodation		Demonstration session	
10 minutes	Revision of the previous topic Methods used to measure accommodation Q & A Session		
40 minutes			
10 minutes			
<p>List of Learning Resources Principles of Optics & Refraction—Duke Elder Optics & Refraction-- LPAggarwal</p>			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year
Topic: Convergence Lesson Title: Learning Outcomes: students should be able to measure convergence Objectives: <ol style="list-style-type: none"> 1. Explain the components of accommodation 2. Explain the mechanism of accommodation 			
Instructional Method: power point presentation			
Duration: 180 minutes			
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
Day 1 Mechanism & Components of convergence		PPT/ projector & laptop Demonstration session	Class test
5 minutes	Introduction of the topic		
45 minutes	Detailed explanation on Mechanism & Components of convergence		
10 minutes	Q & A Session, interactive doubt solving session		
Day 2 Assessment of convergence			
10 minutes	Revision of the previous topic		
40 minutes	Methods to assess convergence		
10 minutes	Q & A Session,		
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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year
Topic: AC/A ratio Lesson Title: Accommodative convergence / Accommodation Learning Outcomes: students should be able to measure Ac/A ratio Objectives: <ol style="list-style-type: none">1. Explain the methods to measure AC/A ratio2. Explain the uses of AC/A ratio			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
5 minutes	Introduction of the topic	PPT/ projector & laptop	mcq test
45 minutes	Methods to measure AC/A ratio Uses of AC/A ratio		
10 minutes	Q & A Session, interactive doubt solving session		
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Name of College: D.Y.Patil Institute of optometry and visual sciences				
Name of Department: Optometry				
Course: Visual Optics-1		Academic Year: 2022-23	Batch: IInd year	
Topic: Retinoscopy Lesson Title: principles & methods Learning Outcomes: students should be able to perform retinoscopy Objectives: <ol style="list-style-type: none"> 1. Explain about the types of retinoscopes 2. Explain the procedure of retinoscopy 				
Instructional Method: power point presentation				
Duration: 120 minutes				
Time: Day 1	Activity Description	Resources/A.V. Aids	Assessment Method Class test	
5 minutes	Introduction of the topic	PPT/ projector & laptop		
45 minutes	Principle & types of retinoscopes			
10 minutes	Q & A Session, interactive doubt solving session			
Day 2 5 minutes	Revision of previous topic	Demonstration session		
45 minutes	Types of retinoscopy and procedures			
10 minutes	Q & A Session, interactive doubt solving session			
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Name of College: Dr. D.Y. Patil Institute of Optometry & Visual Sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: first year
Topic: Vergence Lesson Title: Introduction and lens power calculation Learning Outcomes: At the end of the lecture, student can make calculation from Diopter to focal length and vice versa. Specific Learning Objectives: <ol style="list-style-type: none">1. Define Vergence, Convergence and Divergence.2. Explain its equation.3. Calculation of power and focal length calculation			
Instructional Method: Lecture			
Duration: 120 minutes			
Time: (Day 1) 60 min.	Activity Description Introduction of Vergence Equation Formula Calculation	Resources/A.V. Aids PPT, white board	Assessment Method Class test
(Day 2) 60 min	Calculation(practice)	White board	Assignment
List of Learning Resources System of ophthalmic dispensing : Clifford W. Brooks and Irvin M Borish A textbook of Optics N. Subramaniam and Brij Lal			

Name of College: Dr. D.Y. Patil Institute of Optometry & Visual Sciences			
Name of Department: Optometry			
Course: Visual Optics-1		Academic Year: 2022-23	Batch: first year
<p>Topic: Schematic eye Lesson Title: Gullstrand's exact schematic eye, Donder's reduced eye, stile Crawford experiment Learning Outcomes: At the end of the lecture, student knows the standard values of various parameters of the eye. Specific Learning Objectives:</p> <ol style="list-style-type: none"> 1. Introduction to Gullstrand's Schemetic eye 2. Explain Refractive Components of eye 3. Enlist parameters of tear film, cornea, lens, aqueous, Vitreous 			
Instructional Method: Lecture			
Duration: 60 minutes			
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
10 min	Introduction to Gullstrand's Schemetic eye	PPT, white board	Assignment submission
5 min	Explain Refractive Components of eye		
45 min	Enlist parameters of tear film, cornea, lens, aqueous, Vitreous		
List of Learning Resources			
System of ophthalmic dispensing : Clifford W. Brooks and Irvin M Borish A textbook of Optics N. Subramaniam and Brij Lal			