

LESSON PLAN

Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Refraction Practical Lesson Title: Refraction Learning Outcomes: Students should know how to correct any kind of refractive error. Specific Learning Objectives: <ol style="list-style-type: none"> How to take distance and near vision Learned to use retinoscope To do make a proper case paper 			
Instructional Method: Practical			
Duration: 60 minutes			
Time: 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids Trial box and retioscope	Assessment Method Oral questioning
45 minutes	Detailed explanation of how to take visual acuity, proper use of reinoscope was learned, and how to make a proper case paper.		
10 minutes	Q & A Session, interactive doubt solving session		
List of Learning Resources Principles of Optics and Refraction – Duke Elder Optics and Refraction – L P Agarwal			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Case presentation Lesson Title: Refraction Learning Outcomes: How to write a proper case paper Specific Learning Objectives 1. Explaining the practical approach of previous topics.			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
Day 1	Revision of the previous topic	PPT/ projector and laptop	
10 minutes	Introduction of the new topic		
5 minutes	Detailed explanation of how to prepare a case paper		
35 minutes	interactive doubt solving session		
10 minutes	Revision of the previous topic	Demonstration	
Day 2	Discussion on different types of cases		
10 minutes	Q & A Session		
30 minutes			
20 minutes			
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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
<p>Topic: Schematic eye Lesson Title: Gullstrand schematic eye and simple reduced eye Learning Outcomes: Students learned about different measurement of schematic and reduced eye Specific Learning Objectives:</p> <ol style="list-style-type: none"> 1. Learned about schematic and reduced eye 2. Learned the difference between Gullstrand schematic eye and reduced eye 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector	Assessment Method Oral questioning
45 minutes	Detailed explanation of different measurements included in schematic eye and reduced eye	Demonstration	
10 minutes	Q & A Session, interactive doubt solving session		
<p>List of Learning Resources Principles of Optics and Refraction – Duke Elder Optics and Refraction – L P Agarwal</p>			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Assignment check Lesson Title: Schematic eye Learning Outcomes: Students learned the detailed measurements of schematic eye. Specific Learning Objectives: <ol style="list-style-type: none"> Students should remember the detailed measurements of Gullstrand schematic eye and simple reduced eye 			
Instructional Method: power point presentation			
Duration: 75 minutes			
Time: 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids Oral	Assessment Method Oral questioning
45 minutes	Assessing the previous topic, understanding of students that is given as assignment		
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: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
<p>Topic: Case presentation Lesson Title: Refraction Learning Outcomes: At the end of the lecture students should be able to properly handle a refraction patient and write a case paper. Objectives:</p> <ol style="list-style-type: none"> 1. Students were learning how to handle a refractive error patient 2. They learned how to properly write a case paper 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: 10 minues	Activity Description Revision of the previous topic	Resources/A.V. Aids PPT/ projector	Assessment Method Group discussion
5 minutes	Introduction of the topic		
35 minutes	Assessing the different case papers done by students.		
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: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Corneal thickness Lesson Title: Anatomy and physiology of cornea Learning Outcomes: Students learned in brief about corneal thickness and its various layers Objectives: 1. Students learned in brief about corneal thickness and how to measure it.			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: Day 1 10 minutes	Activity Description Revision of the previous topic	Resources/A.V. Aids PPT/ projector	Assessment Method Class test
5 minutes	Introduction of the topic		
35 minutes	Different corneal layers, their thickness and its measurements.		
10 minutes	Q & A Session,	Demonstration	
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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Corneal layers and its functions Lesson Title: Anatomy and physiology of cornea Learning Outcomes: Students should know different corneal layers and their functions. Objectives: <ol style="list-style-type: none"> 1. To know different corneal layers and their thickness 2. To learn functions of different corneal layers. 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: Day 1 10 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector	Assessment Method
40 minutes	Brief description of corneal layers and their anatomy, also the various functions of each corneal layers.	Demonstration	Q & A Session,
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: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Pachymetry Lesson Title: Learning Outcomes: Students should be able to perform pachymetry procedure. Objectives: <ol style="list-style-type: none"> 1. Describe the types of pachymetry 2. Uses of pachymetry 3. Advantages and disadvantages of pachymetry 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: Day 1 10 minutes	Activity Description Revision of previous topic	Resources/A.V. Aids PPT/ projector Practical Demonstration	Assessment Method Q & A Session,
5 minutes	Introduction of the topic		
35 minutes	Description of various types of pachymeters, their uses, procedure and advantages and disadvantages.		
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: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Revision class Lesson Title: Pachymetry Learning Outcomes: students should be able to perform pachymetry. Objectives: 1. Assess the previous topic			
Instructional Method: power point presentation			
Duration: 90 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector	Assessment Method Q & A Session,
45 minutes	Assessing the previous topic, understanding of students that is given in previous class.		
10 minutes	Q & A Session,	Practical Demonstration	
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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Assignment check Lesson Title: Pachymetry Learning Outcomes: students should be able to perform pachymetry. Objectives: <ol style="list-style-type: none"> 1. Explain different layers of cornea and their functions 2. To use pachymeter to assess corneal thickne 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector	Assessment Method Class test
45 minutes	Assessing the previous topic, understanding of students that is given in the assignment.		
10 minutes	Q & A Session,	Practical Demonstration	
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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
<p>Topic: Ocular refraction vs spectacle refraction and ocular accommodation vs spectacle accommodation.</p> <p>Lesson Title: refractive status of eye</p> <p>Learning Outcomes: students should be able to perform topography and interpret the diagnosis</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Explain about ocular refraction and spectacle refraction and ocular accommodation and spectacle refraction. 2. Difference between ocular refraction and spectacle refraction. 3. Difference between ocular accommodation and spectacle accommodation. 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector Demonstration session	Assessment Method Q & A Session,
45 minutes	Descriptive study of ocular refraction and spectacle refraction, difference between ocular refraction and spectacle refraction, difference between ocular accommodation and spectacle accommodation.		
10 minutes	Q & A Session,		
<p>List of Learning Resources</p> <p>Principles of Optics and Refraction – Duke Elder</p> <p>Optics and Refraction – L P Agarwal</p>			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
<p>Topic: Revision of accommodation Lesson Title: Accommodation and convergence. Learning Outcomes: students should know about accommodation, its anomalies and their treatment. Objectives:</p> <ol style="list-style-type: none"> 1. Accommodation, range of accommodation, amplitude of accommodation 2. Anomalies of accommodation 3. Treatment of anomalies 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector Demonstration session	Assessment Method Q & A Session,
45 minutes	Accommodation, far point of accommodation, near point of accommodation, anomalies of accommodation and its treatment.		
10 minutes	Q & A Session,		
<p>List of Learning Resources Principles of Optics and Refraction – Duke Elder Optics and Refraction – L P Agarwal</p>			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Class test Lesson Title: Accommodation and convergence Learning Outcomes: To assess how much students have understood from the previous lecture Objectives: 1. To see how much students remember about previous topic.			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A.V. Aids PPT/ projector	Assessment Method Class test
45 minutes	Test on accommodation		
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: Optometric Optics		Academic Year: 2022-2023	Batch: IInd year
Topic: Convergence Lesson Title: Accommodation and convergence Learning Outcomes: Students should know about convergence. Objectives: <ol style="list-style-type: none"> 1. Explain about convergence 2. Different anomalies of convergence 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A. V. Aids PPT/ projector	Assessment Method Q & A Session,
45 minutes	Convergence, anomalies of convergence, treatment of the anomalies		
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: Optometric Instruments		Academic Year: 2022-2023	Batch: IInd year
Topic: Exophthalmometer Lesson Title: Exophthalmometry Learning Outcomes: Students should know about the different exophthalmometers used Objectives: <ol style="list-style-type: none"> 1. Explain about luedde and hertel exophthalmometer 2. Clinical uses of exophthalmometry 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A. V. Aids PPT/ projector	Assessment Method Class test
30 minutes	Types of exophthalmometers		
15 minutes	Clinical uses of exophthalmometry		
10 minutes	Q & A Session,		
List of Learning Resources Optometric instruments Dravid B. Henson Santosh K Kumar			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Instruments		Academic Year: 2022-2023	Batch: IInd year
Topic: fundus camera Lesson Title: principal and technique Learning Outcomes: Students should know about technique and interpretation Objectives: <ol style="list-style-type: none"> 1. Explain about the parameters examined in fundus camera 2. Procedure of fundus camera 3. Clinical applications 			
Instructional Method: power point presentation			
Duration: 60 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A. V. Aids PPT/ projector	Assessment Method Q & A Session,
25 minutes	Types of instruments and procedure		
20 minutes	Interpretation and clinical applications		
10 minutes	Q & A Session,		
List of Learning Resources Optometric instruments Dravid B. Henson Santosh K Kumar			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Instruments		Academic Year: 2022-2023	Batch: IInd year
Topic: Colour vision Lesson Title: Learning Outcomes: Students should be able to diagnose colour vision disorders Objectives: <ol style="list-style-type: none"> 1. Explain about different types of colour vision disorders 2. Explain about tests for colour vision 3. Mechanism of colour vision 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time:	Activity Description	Resources/A. V. Aids	Assessment Method
Day 1 5 minutes	Introduction of the topic	PPT/ projector	Mcq test
30 minutes	Mechanism & theories of colour vision		
15 minutes	colour senses		
10 minutes	Q & A Session,		
Day 2 10 minutes	Revision of the previous topic		
20 minutes	Colour blindness		
20 minutes	Tests for colour vision		
10 minutes	Q & A Session,		
List of Learning Resources Optometric instruments David B. Henson Santosh K Kumar			

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Name of College: D.Y.Patil Institute of optometry and visual sciences			
Name of Department: Optometry			
Course: Optometric Instruments		Academic Year: 2022-2023	Batch: IInd year
Topic: Orthoptic Instruments Lesson Title: synaptophore Learning Outcomes: Students should be able to demonstrate exercises Objectives: <ol style="list-style-type: none"> 1. Explain about different types of exercises performed on synaptophore 2. Explain the parts and optics of synaptophore 3. Uses and interpretations 			
Instructional Method: power point presentation			
Duration: 120 minutes			
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A. V. Aids PPT/ projector	Assessment Method Q & A Session,
30 minutes	Principle & working		
15 minutes	Uses & interpretations		
10 minutes	Q & A Session,		
List of Learning Resources Optometric instruments Dravid B. Henson Santosh K Kumar			