

Name of College:	D.Y.Patil Institute of opt	ometry and visual scie	ences
Name of Departme	ent: Optometry		
Course: Optometri	ic Optics Academic Year	: 2022-2023	Batch: IInd year
Topic: Refraction F Lesson Title: Refra			
Learning Outcome Specific Learning 1. How to take	es: Students should know ho	w to correct any kind of r	efractive error.
3. To do make Instructional Meth	e a proper case paper		
Duration: 60 minu			
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 R Principles of Optic Optics and Refraction	cs and Refraction – Duke El	der	1



Name of Departn	nent: Optometry		
Course: Optomet	ric Optics Academic Year:	2022-2023	Batch: IInd year
Topic: Case presen	ntation		
Lesson Title: Ref			
	nes: How to write a proper cas	se paper	
Specific Learning			
1. Explaining	the practical approach of prev	vious topics.	
T / / IN/	· · · · · · · · · · · · · · · · · · ·		
Duration: 120 min	thod: power point presentation	n	
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
Day 1	Revision of the		Assessment Methou
10 minutes	previous topic	PPT/ projector and	
To minutes	Introduction of the	laptop	
5 minutes	new topic		
	Detailed explanation of		
35 minutes	how to prepare a case		
	paper		
10 minutes	interactive doubt	-	
	solving session		
Day 2	Revision of the	-	
10 minutes	previous topic	Demonstration	
	Discussion on		
	1:ff and the set of th		
30 minutes	different types of	1	
30 minutes	cases		
30 minutes 20 minutes	• •	-	



Name of College: D.Y.	Patil Institute of opto	ometry and visual scie	ences
Name of Department:	Optometry		
Course: Optometric O	ptics Academic Year:	2022-2023	Batch: IInd year
Learning Outcomes: S eye Specific Learning Obj 1. Learned about s	nd schematic eye and simp Students learned about dif jectives: chematic and reduced eye Ference between Gullstrar	fferent measurement of so	
Instructional Method: Duration: 60 minutes	power point presentation	n	
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
5 minutes	Introduction of the topic	PPT/ projector	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		
List of Learning Reso Principles of Optics and Optics and Refraction –	d Refraction – Duke Elde	r	



Name of College: D.	Patil Institute of opto	ometry and visual scie	ences
Name of Department	: Optometry		
Course: Optometric	Optics Academic Year:	2022-2023	Batch: IInd year
Specific Learning Ob	tic eye Students learned the detai bjectives: ld remember the detailed 1		
Instructional Method Duration: 75 minutes Time: 5 minutes	I: power point presentation Activity Description Introduction of the topic	n Resources/A.V. Aids Oral	Assessment Method
45 minutes	Assessing the previous topic, understanding of students that is given as assignment		Oral questioning
10 minutes	Q & A Session, interactive doubt solving session		
List of Learning Res Principles of Optics an Optics and Refraction	nd Refraction – Duke Elde	r	



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

Name of College: D.Y	Patil Institute of opto.	ometry and visual sci	ences
Name of Department:	Optometry		
Course: Optometric C	Optics Academic Year:	2022-2023	Batch: IInd year
Topic: Case presentation Lesson Title: Refraction			
refraction patient and v Objectives: 1. Students were	At the end of the lecture s write a case paper. learning how to handle a bw to properly write a cas	refractive error patient	o properly handle a
	: power point presentation	n	
Duration: 60 minutes	T	1	
Time: 10 minues	Activity Description Revision of the previous topic	Resources/A.V. Aids PPT/ projector	Assessment Method
5 minutes	Introduction of the topic		Group discussion
35 minutes	Assessing the different case papers done by students.		
10 minutes	Q & A Session, interactive doubt solving session		
List of Learning Reso Principles of Optics and Optics and Refraction -	d Refraction – Duke Elde	r	



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: 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:	Activity Description	Resources/A.V. Aids	Assessment Method		
Day 1	Revision of the	PPT/ projector			
10 minutes	previous topic	, r - ,			
		-	Class test		
5 minutes	Introduction of the topic		Class test		
35 minutes	Different corneal				
55 minutes	layers, their thickness				
	and its meaurements.				
10 minutes	Q & A Session,	Demonstration			
List of Learning Resor	ırces				
	Principles of Optics and Refraction – Duke Elder				
Optics and Refraction –					



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: Corneal layers and its functions

Lesson Title: Anatomy and physiology of cornea

Learning Outcomes: Students should know different corneal layers and their functions. **Objectives:**

- 1. To know different corneal layers and their thickness
- 2. To learn functions of different corneal layers.

Instructional Meth	od: power point presentation	n	
Duration: 60 minut	tes		
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,		
List of Learning R Principles of Optics	esources and Refraction – Duke Elde	r	1
Optics and Refraction		•	



Name of	Department:	Optometry		
Course:	Optometric O	ptics Academic Year	: 2022-2023	Batch: IInd year
-	achymetry			
	g Outcomes: S	Students should be able	to perform pachymetry pro	ocedure.
Objectiv				
	•	pes of pachymetry		
	ses of pachym	•	motra	
з. А	availages and	disadvantages of pachy	metry	
Instructi	ional Method:	power point presentation	on	
Duration	1: 60 minutes			
Time:		Activity Description	Resources/A.V. Aids	Assessment Method
Day 1			PPT/ projector	
10 minut	es	Revision of previous topic		
5 minute	S	Introduction of the topic		
35 minut	es	Description of various types of pachymeters, their uses, procedure and advantages and		Q & A Session,
		disadvantages.	Practical	
10 minut	es	Q & A Session,	Demonstration	
List of L	earning Reso	urces		
	0	l Refraction – Duke Eld	er	
-	nd Refraction -			



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Name of Department:	Optometry			
Course: Optometric O	ptics Academic Year:	2022-2023	Batch: IInd year	
Objectives:	tudents should be able to	perform pachymetry.		
1. Assess the previ	lous topic			
	power point presentation	1		
Duration: 90 minutes	Τ	Γ	Γ	
Time:	Activity Description	Resources/A.V. Aids	Assessment Method	
Day 1 5 minutes	Introduction of the topic	PPT/ projector		
45 minutes 10 minutes	Assessing the previous topic, understanding of students that is given in previous class. Q & A Session,		Q & A Session,	
		Practical Demonstration		
List of Learning Reso				
	l Refraction – Duke Elde	r		
Optics and Refraction –	- L P Agarwal			



Name of Co	ollege: D.Y.	Patil Institute of opto	metry and visual scie	nces
Name of De	partment:	Optometry		
Course: Op	otometric Op	otics Academic Year:	2022-2023	Batch: IInd year
Objectives:	e: Pachymet utcomes: st Explain diff		d their functions	
Instructiona Duration: 1		power point presentation	1	
Time:	20 minutes	Activity Description	Resources/A.V. Aids	Assessment Method
Day 1		Reavity Description		
5 minutes		Introduction of the topic	PPT/ projector	
45 minutes		Assessing the previous topic, understanding of students that is given in the assignment.		Class test
10 minutes		Q & A Session,	Practical Demonstration	
-	f Optics and	n rces Refraction – Duke Elder L P Agarwal	r	1



Name of College: D	.Y.Patil Institute of opto	ometry and visual scie	ences
Name of Department	nt: Optometry		
Course: Optometric	Optics Academic Year:	2022-2023	Batch: IInd year
accommodation. Lesson Title: refract Learning Outcomes Objectives: 1. Explain and spec 2. Differen 3. Differen	s: students should be able to about ocular refraction and stacle refraction. ce between ocular refractio ce between ocular accomm	o perform topography and spectacle refraction and o n and spectacle refraction odation and spectacle acc	l interpret the diagnosis ocular accommodation
Instructional Metho Duration: 120 minu	od: power point presentatio	n	
Time:	Activity Description	Resources/A.V. Aids	Assessment Method
Day 1 5 minutes	Introduction of the topic	PPT/ projector	
45 minutes 10 minutes	Descriptive study of ocular refraction and spectacle refraction, difference between ocular refraction and spectacle refraction, difference between ocular accommodation and spectacle accommodation.Q & A Session,	Demonstration session	Q & A Session,
List of Learning Re Principles of Optics	sources and Refraction – Duke Elde	er	
Optics and Refractio			



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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	
Learning Outcomest treatment. Objectives: 1. Accomm 2. Anomali	ccommodation modation and convergence. s: students should know about nodation, range of accommodation ies of accommodation nt of anomalies			
Instructional Metho Duration: 120 minu	bd: power point presentation			
Time:	Activity Description	Resources/A.V. Aids	Assessment Method	
Day 1 5 minutes	Introduction of the topic	PPT/ projector		
45 minutes 10 minutes	Accommodation, far point of accommodation, near point of accommodation, anomalies of accommodation and its treatment. Q & A Session,	Demonstration - session	Q & A Session,	
List of Learning Resources Principles of Optics and Refraction – Duke Elder Optics and Refraction – L P Agarwal				
Opues and Kenacuon – L.F. Agaiwai				



Name of College	: D.Y.Patil Institute of optom	etry and visual scie	ences
Name of Depart	ment: Optometry		
Course: Optome	etric Optics Academic Year: 2	022-2023	Batch: IInd year
	commodation and convergence mes : To assess how much students	s have understood from	m the previous lecture
Objectives: 1. To se	ee how much students remember a	bout previous topic.	
Instructional Mo	ethod: power point presentation		
Duration: 60 min	nutes		
Time: Day 1	Activity Description	Resources/A.V. Aids	Assessment Method
5 minutes	Introduction of the topic		
45 minutes	Test on accommodation	– PPT/ projector	
10 minutes	Q & A Session,	_	Class test
		Demonstration session	
List of Learning			
	ics and Refraction – Duke Elder		
Optics and Refrac	ction – L P Agarwal		



Name of College: D.	Y.Patil Institute of optometry	and visual scie	ences
Name of Departmen	t: Optometry		
Course: Optometric	Optics Academic Year: 2022-2	2023	Batch: IInd year
Learning Outcomes: Objectives: 1. Explain a 2. Different	modation and convergence Students should know about conv bout convergence anomalies of convergence d: power point presentation	ergence.	
Duration: 120 minute		1	1
Time: Day 1 5 minutes	Activity Description Introduction of the topic	Resources/A. V. Aids	Assessment Method
45 minutes	Convergence, anomalies of convergence, treatment of the anomalies	PPT/ projector	
10 minutes	Q & A Session,		Q & A Session,
List of Learning Res	ources	<u> </u>	1
1 1	nd Refraction – Duke Elder		
Optics and Refraction	– L P Agarwal		



Name of College:	D.Y.Patil Institute of optometry	and visual scie	ences
Name of Departm	nent: Optometry		
Course: Optomet	ric Instruments Academic Year: 20	022-2023	Batch: IInd year
Topic: Exopthalm			
Lesson Title: Exo		1.00	
	nes: Students should know about the	different exopthal	mometers used
Objectives:			
1	in about luedde and hertel exopthalm	ometer	
	al uses of exopthalmometry		
	thod: power point presentation		
Duration: 120 min			I
Time: Day 1	Activity Description	Resources/A. V. Aids	Assessment Method
5 minutes	Introduction of the topic		
	Types of exopthalmometers	– PPT/	
30 minutes	Types of exopliantionicers	projector	
	Clinical uses of		
15 minutes	exopthalmometry		Class test
10 minutes	Q & A Session,	_	
List of Learning			
Optometric instrur	nents Dravid B. Henson		
	Santosh K Kumar		



	D.Y.Patil Institute of optometr	y and visual scie	
Name of Departm	ent: Optometry		
Course: Optometr	ic Instruments Academic Year:	2022-2023	Batch: IInd year
Topic: fundus cam	era		
Lesson Title: princ	ipal and technique		
	es: Students should know about tec	hnique and interpre	etation
Objectives:			
1	n about the parameters examined in	fundus camera	
	ure of fundus camera		
5. Chinica	l applications		
Instructional Met	hod: power point presentation		
Duration: 60 minu	tes		
Time:	Activity Description	Resources/A.	Assessment Method
Day 1		V. Aids	
5 minutes	Introduction of the topic	/	
	Types of instruments and	PPT/	
25 minutes	procedure	projector	
	1		
20 minutes	Interpretation and clinical		Q & A Session,
	applications		
10		_	
10 minutes	Q & A Session,		
List of Learning R			
Optometric instrum	ents Dravid B. Henson		
	Santosh K Kumar		



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Ĩ	t: Optometry		
Course: Optometric	Instruments Academic Year: 20	22-2023	Batch: IInd year
Topic: Colour vision Lesson Title: Learning Outcomes Objectives:	: Students should be able to diagnos	se colour vision o	lisorders
	about different types of colour visio	n disorders	
	about tests for colour vision		
3. Mechani	sm of colour vision		
Instructional Metho	d: power point presentation		
Duration: 120 minut	* * * *		
Time:	Activity Description	Resources/A.	Assessment Method
Day 1		V. Aids	
5 minutes	Introduction of the topic		
	Mechanism & theories of	PPT/	
30 minutes	colour vision	projector l	
15 minutes	colour senses		Mcq test
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 Rea			



Name of College:	D.Y.Patil Institute of optomet	ry and visual scie	ences
Name of Departn	nent: Optometry		
Course: Optomet	ric Instruments Academic Year:	2022-2023	Batch: IInd year
Objectives: 1. Expla 2. Expla		s performed on syna	ptophore
Instructional Me Duration: 120 mi	thod: power point presentation nutes		
Time: Day 1 5 minutes	Activity DescriptionIntroduction of the topic	Resources/A. V. Aids	Assessment Method
30 minutes	Principle & working	— PPT/ projector	
15 minutes	Uses & interpretations		Q & A Session,
10 minutes	Q & A Session,		
List of Learning Deptometric instrum	Resources nents Dravid B. Henson Santosh K Kumar	I	1