THE AIR FORCE SCHOOL: SUBROTO PARK: DELHI CANTT-110010

Class -X

Sub: PHYSICS

Weekly Syllabus

Academic Session 2023-24

Month	Week	Dates		Days	No of Periods	Chapter	Contents	Syllabus
March		09-27				Chap-9 Light reflection & refraction	9.1 Reflection Of Light	
Apr-23	I	01	01-Working Saturday (Student)	01	1	Chap-9 Light reflection & refraction	 9.2 Spherical Mirrors Terms related to spherical mirrors. 9.2.1 Image formation by spherical mirrors 	
	II	03-07	04 - Mahavir Jayanti 07 - Good Friday	03	2	Chap-9- Light reflection & refraction	9.2.2 Representation of images formed by spherical mirrors using ray diagrams • Rules for image formation by spherical mirrors. • Image formation by concave mirror Practical To determine the focal length of the concave mirror	
	III	10-14	14 - Ambedakar Jayanti	04	2	Chap-9. Light reflection & refraction	9.2.2 Representation of images formed by spherical mirrors using ray diagrams Image formation by concave mirror Uses of concave mirrors Image formation by a	

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							convex mirror uses of convex mirrors Practical To determine the focal length of the concave mirror	
	IV	17-21		05	2	Chap-9. Light reflection & refraction	9.2.3 Sign convention for reflection by spherical mirrors 9.2.4 Mirror formula and magnification Practical- Determination of the focal length of convex lens by obtaining the image of a distant object.	
	V	24-29	29-Working Saturday (Student) 29 – Parent Orientation VI & IX	06	2	Chap-9 Light reflection & refraction	9.3 Refraction of light 9.3.1 Refraction through a rectangular glass slab 9.3.2 The refractive index Practical- Determination of the focal length of convex lens by obtaining the image of a distant object.	
May-23	I	01-05	05 – Budha Purnima 01-04 : ES-1 (XII)/ CT-1 (X)	04	2	Chap-9 Light reflection & refraction	9.3.3 Refraction by spherical lenses 9.3.4 Image formation by lenses Practical Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.	ES-1 (XII)/ CT-1 (X) Date: 01-08 May Chap-9 Light reflection & refraction (up to 9.2.4 Mirror Formula and Magnification

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	II	08-12	08 : ES-1 (XII)/ CT-1 (X) 11,12 – The Quest	05	2	Chap-9 Light reflection & refraction	9.3.5 Image formation in lenses using ray diagrams Practical Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.	
	III	15-20	20- Working Saturday (Open House X & XII)	06	2	Chap-9 Light reflection & refraction	9.3.6 Sign convention for spherical lenses 9.3.7 Lens formula and magnification 9.3.8 Power of a lens Practical -completion of practical file	
	I -				ummer bro	eak 22 may -30 jun 2	2023 *****	
Jul-23	l	01-	01- School reopens for staff	01				PT-I Class VI-X Date: 07 Jul – 19Jul Chap-10.: Light reflection &
	II	03-07		05	2	CHAP-10 The Human eye and The colourful World	10.1 The Human Eye 10.1.1 Power of accommodation 10.2 Defects of vision and their correction Practical- tracing the path of the	refraction (upto Image formation by lenses) ES-2 (XII): 07 Jul –
							rays of light through a glass prism	19Jul
	III	10-14		05	2	CHAP-10 The Human eye and	10.3 Refraction of light through a prism	

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					. 6.1646	The colourful World	10.4 Dispersion of white light by a glass prism 10.5 Atmospheric refraction 10.6 Scattering of light Practical- tracing the path of the rays of light through a glass prism.	
	IV	17-22	22 – Working Saturday (Students)	06	2	Chap-11- Electricity	11.1 Electric current and circuit 11.2 Electric potential and potential difference 11.3 Circuit diagram • Electric potential and potential difference • Ohm;s law Practical Studying the dependence of potential difference (v) across a resistor on the current (i) passing through it and determine its resistance. also plotting a graph between v and i.	
	V	24-28	29-Muharram	05	2	Chap-11- Electricity	11.4 Ohm's law 11.5 Factors on which the resistance of a conductor depends • resistivity Practical studying the dependence of potential difference (v) across a resistor on the current (i) passing through it and determine its resistance. also plotting a graph between v and i.	
	VI	31		01	1	Chap-12- Electricity	11.6 Resistance of a system of resistors	

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							 Resistance of a system of resistors in series 	
Aug-23	I	01-05	05 – Working Saturday (Open House (VI-X), XII)	05	2	Chap-12- Electricity	Resistance of a system of resistors in parallel Advantages and disadvantages of series and parallel combination Practical- determination of the equivalent resistance of two resistors when connected in series and parallel.	
	II	07-11		05	2	Chap-12- Electricity	11.7 Heating Effect Of Electric Current 11.7.1 Practical applications of heating effect of electric current 11.8 Electric Power Practical- Determination of the equivalent resistance of two resistors when connected in series and parallel.	
	III	14-18	15 – Independence Day	04	2	Chap-12- Electricity	NCERT back exercise	
	IV	21-26	24,25-Class Test 26-Working Saturday (Students) 26-Annual Prize	06	2		Revision	

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			Distribution					
	V	28-32	30-Raksha Bandhan	03	2		Revision	
			28,29 -Class Test					
Sep-23	I	01	01 -Class Test	01	1		Revision	
	II	04-08	07-Janmashtami	04				Mid Term (PT-II)/ HYE Date 11-23 Sep
	III	11-16	16 – Working Saturday (Students)	06		Mid Term/ Hye Exam		Chap-9 Light reflection &
	IV	18-23	23 – Working Saturday (Students)	06				refraction CHAP-10 The
	V	25-30	28-Milad-un-Nabi	04	2	Chap-12 Magnetic Effects of Electric Current	12.1 Magnetic Field and Field Lines 12.2 Magnetic field due to a current-carrying conductor 12.2.1 Magnetic field due to a current through a straight conductor Practical- Determination of the equivalent resistance of two resistors when connected in series and parallel.	Human eye and The colourful World CHAP-11- ELECTRICITY
Oct-23	II	02-07	02-Mahatma Gandhi's Birthday 07-Annual Prize Distribution	05	2	CHAP-12 MAGNETIC EFFECTS OF ELECTRIC CURRENT	12.2.2 Right-hand thumb rule 12.2.3 Magnetic field due to a current through a circular loop Practical- determination of the equivalent resistance of two resistors when connected	

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							in series and parallel.	
	III	09-14	14- Working Saturday(Open House VI-XII)	06	2	Chap-12 Magnetic Effects of Electric Current	12.2.4 Magnetic field due to a current in a solenoid. 12.3 Force on a current-carrying conductor in a magnetic field	
	IV	16-20		05	2	Chap-12 Magnetic Effects of Electric Current	12.4 Domestic electric circuits NCERT back exercise	
	V	23-27	23- Autumn Break 24- Dussehra 28-Maharishi Valmiki's Birthday	03	2	Chap-12 Magnetic Effects of Electric Current	NCERT back exercise	
	VI	30-31		02			Revision	
				***	autumn	break 23 oct 2	023 ***	
Nov-23	I	01-04	01- Karwa Chouth 04 - Working Saturday (Students)	03			Revision	
	II	06-10	07 – Annual Day	05			Revision	

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	III	13-18	11-15 – Diwali Break	03			Revision	PT-III (IX & X): 20 Nov-30 Nov-Entire Syllabus
	IV	20-24		05			<u> </u>	_
	V	27-30	27 – Guru Nank's Birthday	03			PT-III	
Dec-23	I	01-02	01,02 – Annual Athletic Meet	02				
	II	04-09	09 – Sports Day	06				
	III	11-16	16-Working Saturday, Open House (IX,X & XII)	06			Revision from Sample Papers	
	IV	18-22	20-22 – TAFS MUN 24,25 – Christmas Holidays	05				
		<u> </u>	*** W	inter l	Break fro	om 26 Dec to 05	Jan 2024 ***	
Jan-24		08-12		05				Pre-Board (X & XII): 09 Jan-23 Jan
	II	15-20	20-Working Saturday, Open House (VI-VIII, XI)	06				
	III	22-27	26-Republic Day 27- Farewell XII	05				

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Feb-24	IV I	29-31 01-03	01,02- Class Test	03			Revision	_
			03-Working Saturday, Citation Ceremony, Open House (X& XII)				Revision	
	II	05-09	05-08- Class Test	05			Revision	
	III	12-16		05			Revision	
	IV	19-23		05				
	V	26-29		04				
Mar-24			Classes VI-VIII – 26 Feb					

Note: The examination syllabus as mentioned above is to be considered Tentative. The final syllabus for each exam will be uploaded on the website along with the Date Sheet at the time of the examination.