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

Class – X

Sub: Physics

Weekly Syllabus (Tentative)

Academic Session 2024-25

Month	Week	Dates		Days	No of Periods	Chapter	Contents	Syllabus
Mar 24	Block Teaching			-	-	Chap-9 Light reflection & refraction	**9.1 Reflection Of Light** ● Laws of reflection of light ● Real and virtual images ● Spherical mirrors **9.2 Spherical Mirrors** ● Terms related to spherical mirrors. 9.2.1 Image formation by spherical mirrors 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	
Apr-24	I	01-06	**06-Working Saturday (Staff)**	05	2	Chap-9 Light reflection &	● Uses of concave mirrors ● Image formation by a convex mirror ● uses of convex mirrors 9.2.3 Sign convention for reflection by spherical mirrors 9.2.4 Mirror formula and magnification	

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	II	08-12	**11 – Id-ul-Fitr**	04	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.	
	III	15-19	**14 - Ambedakar Jayanti** **17 – Ram Navami** **21 - Mahavir Jayanti**	04	2	Chap-9- Light reflection & refraction	9.3.3 Refraction by spherical lenses 9.3.4 Image formation by lenses **Practical-** Determination of the focal length of convex lens by obtaining the image of a distant object	
	IV	22-27	**27-Working Saturday (Student)**	06	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.	
	V	29-30		02	2	Chap-9. Light reflection & refraction	9.3.6 Sign convention for spherical lenses	

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May-24	I	01-03	**01-03 : ES-1 (XII)/ CT-1 (X)**	03	2	Chap-9. Light reflection & refraction	9.3.7 Lens formula and magnification **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: 01-07 May –** Chap-9 Light reflection &refraction(up to article 9.2)
	II	06-10	**06-07 : ES-1 (XII)/ CT-1 (X)** **09,10 – The Quest**	05	2	Chap-9. Light reflection & refraction	9.3.7 Lens formula and magnification 9.3.8 Power of a lens Practical- Completion of file	
	III	13-18	**18- Working Saturday (Open House X & XII)**	06	2	Chap-9. Light reflection & refraction	Chapter Back exercise Practical- Completion and correction of file	
******* SUMMER BREAK 20 MAY -30 JUN 2024 ********								
Jul-24	I	01-06	01- School reopens for staff **06-Working Saturday (Student)**	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 rays of light through a glass prism	**PT-I** **Class VI-X Date: 05 Jul – 12Jul** Chap-9. Light reflection & refraction

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	II	08-12		05	2	CHAP-10 The Human eye and The colourful World	**10.3 Refraction of light through a prism** **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.	**ES-2 (XII): 05 Jul – 12Jul**
	III	15-19	**17-Muharram**	04	2	Chap-11-Electricity	**11.1 Electric current and circuit** **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.	
	IV	22-27	**27 – Working Saturday (Students)**	06	2	Chap-11-Electricity	**11.2 Electric potential and potential difference** **11.3 Circuit diagram** **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	29-31		03	1	Chap-11-Electricity	**11.4 Ohm's law**	

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Aug-24	I	01-03	**03 – Working Saturday (Open House (VI-X), XII)**	03	1	Chap-11-Electricity	**Practical**- determination of the equivalent resistance of two resistors when connected in series and parallel.	
	II	05-09		05	2	Chap-11-Electricity	11.5 Factors on which the resistance of a conductor depends **Practical**- Determination of the equivalent resistance of two resistors when connected in series and parallel.	
	III	12-16	**15 – Independence Day**	04	2	Chap-11-Electricity	**NCERT back exercise** **Practical-Completion of file**	
	IV	19-23	**19-Raksha Bandhan**	04	2	Chap-11-Electricity	Revision	
	V	26-31	**26-Janmashtami** **31-Working Saturday (Students)** **31-Annual Prize Distribution**	05	2	----------	Revision	
Sep-24	I	02-06		05		---------- ----------	Mid Term Exam ----------	**Mid Term (PT-II)/ HYE** **Date 02-14 Sep** **Chap-9**. Light reflection & refraction **CHAP-10** The Human eye and The colourful World **Chap-11-**Electricity

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	II	09-14	**14 – Working Saturday (Students)**	06				(Upto 11.5- Factors On Which The Resistance Of A Conductor Depends)
	III	16-21	**16-Milad-un-Nabi** **21 – Working Saturday (Students)**	05	02		Discussion of QP	
	IV	23-27		05	02	Chap-11-Electricity	11.6 Combination of resistors	
	V	30		01	1	Chap-11 Electricity	11.7 Heating Effect Of Electric Current	
Oct-24	II	01-05	**02-Mahatma Gandhi's Birthday** **05-Annual Prize Distribution**	04	2	Chap-11-Electricity	**11.8 Electric Power** **12.1 Magnetic Field and Field Lines** P**ractical**- Determination of the equivalent resistance of two resistors when connected in series and parallel.	
	III	07-12	**09-13– Autumn Break** **12- Dussehra**	02	2	CHAP-12 Magnetic Effects of Electric Current	**12.2 Magnetic field due to a current-carrying conductor** 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 in series and parallel.	

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	IV	14-19	**17-Maharishi Valmiki's Birthday** **19 – Working Saturday (Open House VI-XII)**	05	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**	
	V	21-25	**20– Karwa Chouth**	05	2	CHAP-12 Magnetic Effects of Electric Current	**12.4 Domestic electric circuits** **NCERT back exercise**	
	VI	28-31	**30-03 Nov – Diwali Break**	02	2	CHAP-12 Magnetic Effects of Electric Current	**NCERT back exercise**	
***** Autumn Break 09-13 Oct 2024 *****								
Nov-24	I	04-09	**09 – Working Saturday (Students)**	06	2	----------	Revision	
	II	11-15	**12 – Annual Day** **15 – Guru Nank's Birthday**	04	2	----------	PT III	
	III	18-22		05		----------	PT III	**PT-III (X):** 14 Nov-25 Nov- Entire Syllabus
	IV	25-30	**29,30 – Annual Athletic Meet**	06		----------	PT III	
Dec-24	**I**	02-07	**07 – Sports Day**	06		----------	Discussion of PT -III paper	
	II	09-13		05		----------	Revision from Sample Papers	

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	III	16-21	**21-Working Saturday, Open House (X & XII)**	06		----------	Revision	
	IV	23	**24,25 – Christmas Holidays**	01			Revision	
***** Winter Break from 26 Dec to 04 Jan 2025 *****								
Jan-25	I	06-10		05			Pre Board Exam	
	II	13-18	**18-Working Saturday, Open House (VI-IX, XI)**	06		----------		
	III	20-25	**25-Citation Ceremony** **25-Open House XII** **26-Republic Day**	06		----------		
	IV	27-31		05		----------		
Feb-25	I	01	**01 – Farewell XII** 01- **Open House X**	01		----------		
	II	03-07		05		----------		
	III	10-14		05		----------		
	IV	17-22	**22-Working Saturday (students)**	06		----------		
	V	24-28	**26-Maha Shivratri**	04				

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Mar-25	**Annual Exam Classes VI-VIII – 25 Feb-10 Mar 2025**							

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.