

SYLLABUS CHART –STD X 2017 – 2018 - PHYSICS

MONTH	WEEK	TOPIC	CONTENT
JUNE	1	Laws of Motion and Gravitation	Balanced and unbalanced forces – First law of motion – Inertia and Mass
	2		Momentum – Second law of motion –Third law of motion – Conservation of momentum and proof
	3		Moment of force and couple – Gravitation – Newton’s law of gravitation – Mass - Weight
	4		Acceleration due to gravity – Mass of earth- Science Today
JULY	1	Electricity and Energy	Electric current and circuit – Electric potential difference – Circuit diagram
	2		Ohm’s law
	3		Resistance of a conductor – System of resistors – Heating effect of electric current – Role of fuse – domestic electric circuits
	4		Electric power – Chemical effect of electric current – Electrolysis – Electro chemical cells – Primary and Secondary cells .
AUGUST	1		Sources of energy – Conventional sources of energy – Non-conventional sources of energy – Nuclear energy.
	2		Radioactivity – Nuclear fission and fusion – Nuclear reactivity – Hazards of nuclear energy – Science today
	3	Magnetic effect of electric current and light.	Magnetic field due to current carrying conductor – straight conductor.
	4		Magnetic field due to a circular loop – Force on a current carrying

			conductor in a magnetic field – Fleming’s left hand rule – Electric generator.
OCTOBER	1		Light -reflection of light by spherical mirrors – image formation and mirror formula
	2		Refraction – Laws of refraction – Refractive index – Refraction by spherical lenses.
	3		Image formation by lenses – LENS formula and magnification
	4		Power of lens – Refraction of light through prism
NOVEMBER	1		Dispersion – by a glass prism – Atmospheric refraction
	2		Human eye – Defects and rectification
	3		Science today – Hubble space telescope
	4		Revision

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MONTH	WEEK / DATES	PAGE NO.	TOPIC / UNIT	ASSIGNMENT / EVALUATION
JUNE	II (7 th to 9 th June)	146 – 153	SOLUTIONS	
JUNE	III (12 th to 16 th June)	154 to 156	SOLUTIONS	
JUNE	IV (19 th to 23 rd June)	157 to 159	SOLUTIONS	Exercises,c.w, Test
JUNE	V (27 th to 30 th June)	160 to 162	ATOMS AND MOLECULES	C.W
JULY	I (3 rd July to 7 th July)	162 to 164	ATOMS AND MOLECULES – MOLE CONCEPT	Exercises,C.W
JULY	II (10 th to 14 th July)	165 to166	ATOMS AND MOLECULES	Exercises , C.W
JULY	III (17 th to 21 st July)	167 to 168	ATOMS AND MOLECULES	Problems in C.W

JULY	IV (24 th July to 27 th July)	169 to 175	CHEMICAL REACTONS	Test
AUGUST	I (1 st to 3 rd August)	176 to 180	CHEMICAL REACTONS - ACIDS	Exercises
AUGUST	II (7 th to 11 th August)	181 to 186	CHEMICAL REACTONS - BASES	Exercises, C.W
AUGUST	III (16 th to 18 th August)	187 to 191	CHEMICAL REACTONS	Exercises, C.W,Test
AUGUST	IV (21 st to 31 st August)	REVISION	Pre-Quarterly Exams	
SEPTEMBER	I, II, III (1 to 25 th)	REVISION	Quarterly Exams	
SEPTEMBER	IV (28 th to 30 th)	192 to 204	PERIODIC CLASSIFICATION OF ELEMENTS	C.W
OCTOBER	I (3 rd to 6 th)	204 to 208	PERIODIC CLASSIFICATION OF ELEMENTS	C.W, Exercises.
OCTOBER	II (9 th to 13 th)	209 to 212	PERIODIC CLASSIFICATION OF ELEMENTS	Exercises, Test
OCTOBER	III (16 th to 20 th)	213 to 215	CARBON AND ITS COMPOUNDS – Intr.	
OCTOBER	IV (23 rd to 27 th) V(30 ,31)	216 to 220	CARBON AND ITS COMPOUNDS	C.W
NOVEMBER	I (1 st to 3 rd)	221 to 223	ETHANOL AND ETHANOIC ACID	Exercises, Test
NOVEMBER	II ,III (6 th to 17 th)	REVISION	REVISION	REVISION