NSS F.3 Physics Teaching Syllabus (NSS)(2017-2018)

CYCLE Topics	
CTELL	
[Book 1 Heat]	
1 1.1 Temperature	
(2 - 9)	
2 1.2 Thermometers	
(10 - 17)	
2.1 Internal Energy	
3	
(18 - 25)	
2.2 Heat and energy transfer	
4 (28 - 6)	
2.3 Heat capacity and specific heat capacity	
5	
(7 - 14)	
Example of Specific heat capacity	
6	
(15 - 22)	
3.1 Latent heat	
7 (22, 2)	
(23 - 3)	
3.2 Evaporation	
8	
(4 - 13)	
Example of Latent heat	
9	
(16 - 25)	
4.1 Conduction	
10 (26 – 7)	
4.2 Convection	
12	
(16 - 6)	

CYCLE	Topics
4.	
14	
(15 - 22)	
15 [B	Book 3A Wave Motion]
(25 - 1) 1.	.1 Light Rays
1.	.2 The laws of reflection
16	
(2 - 9)	
	Example of law of reflection
17	·
(10 - 26)	
1.	.3 Images formed by a plane mirror
18	
(1 - 8)	
2.	.1 The law of refraction
19	
(9 - 16)	Calculation for law of refraction
20	23.23.30.00.10.10.10.10.10.10.10.10.10.10.10.10
(17 - 24)	
2.	.2 Total internal reflection
21	
(25 - 1)	Daily avample of total internal reflection
22 (12 - 19)	Daily example of total internal reflection
23	Calculation for total internal reflection
(20 - 27)	
3.	.1 Convex and Concave Lens
24 (28 - 6)	
3.	.2 Images formed by a convex lens
25	-
(7 - 14)	Ray diagrams
26	nay ulagrams
(17 - 25)	
27 (26 - 2)	
(20 - 2)	

NSS F.4 Physics Teaching Syllabus (NSS)(2017-2018)

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CYCLE	Topics
1 (2 - 9)	1.1 Time 1.2 Distance and Displacement
2 (10 - 17)	1.3 Speed and velocity 1.4 Change in velocity and acceleration
3 (18 - 25)	2.1 Graphs of straight line Motion
4 (28 - 6)	2.2 Equation of uniformly accelerated motion
5 (7 - 14)	2.3 Free fall motion Review and Exercise
6 (15 - 22)	3.1 Introduction to forces
7 (23 - 3)	3.2 Inertia and Newton's First Law of Motion3.3 Addition and Resolution of Forces
8 (4 - 13)	3.4 Net force and Motion: Newton's Second Law
9 (16 - 25)	3.5 Action and reaction: Newton's third law
10 (26 – 7)	3.6 The turning effect of a force
12 (16 - 6)	4.1 Work and Energy4.2 Kinetic and Potential Energy

CYCLE		Topics
14 (15 - 22)	4.3	Energy changes
15 (25 - 1)	4.4	Power
16	5.1	Momentum
(2 - 9)	5.2	Conserving Momentum
17	5.2	Example of Conservation of momentum
(10 - 26)		
18	6.1	Horizontally projected motion
(1 - 8)	6.2	General projectile motion
10	7.1	Introduction to circular motion
19 (9 - 16)	7.2	Uniform circular motion and centripetal force
	8.1	Newton's law of Universal Gravitation
20 (17 - 24)	8.2	Gravitational Field
22 (12 - 19)	4.1	The visible spectrum
,	4.2	The Electromagnetic Spectrum
23	4.2	Example of electromagnetic spectrum
(20 - 27)	5.1	Wave Motion
24 (28 - 6)	5.2 5.3	Wave and particle motion of transverse motion Graphical descriptions of transverse waves
25	6.1	Observing waves
(7 - 14)	6.2	Reflection and refraction of waves
26	6.3	Diffraction
(17 - 25)	6.4	Interference
27 (26 - 2)	6.5	Stationary Waves

NSS F.5 Physics Teaching Syllabus (NSS)(2017-2018)

CYCLE	Topics
1	[Book 3B Wave] 7.1 Wave Nature of Wave 7.2 Young' Double-slit Experiment and the plane transmission
2	7.3 Electromagnetic Waves 8.1 Longitudinal waves
3	8.2 Wave nature of sound
4	8.3 Properties of sound8.4 Musical notes and noise
5	[Book 4] 1.1 Electric charges
6	1.2 Electric field
7	1.3 Electric potential
8	2.1 Electric current2.2 Electromotive force and potential difference2.3 Resistance
9	2.3 Resistance2.4 Resistors in series and in parallel
10	2.5 Resistance of ammeters, voltmeters and power sources
12	3.1 Electrical power and energy3.2 Mains electricity and household wiring
13	3.2 Mains electricity and household wiring4.1 Magnetic field
14	4.2 Magnetic field of electric currents

CYCLE	Topics
15	4.3 Current -carrying conductor in a magnetic field
16	5.1 Current generation in a magnetic field
17	5.2 Generators and other applications of electromagnetic induction
18	6.1 Alternating current
19	6.2 Transformer and high-voltage transmission
20	[Book 2] 6.1Projectile Motion
21	7.1 Circular Motion
22	7.2 Circular Motion
23	8.1 Newton's law of universal gravitation8.2 Gravitational field
24	[Book 1] Chapter 5 Kinetic Theory of Gases
25	Root Mean Speed of Gases

NSS F.6 Pyisics Teaching Syllabus For NSS (2017-2018)

CYCLE	PROGRAMME		
	[Book E1]		
1	1.1	The Universe at different scale	
(2 - 9)			
2	2.1	Models of Planetary Motion	
(12 - 20)	2.2	The Dawn of Modern Astronomy	
3	3.1	Understanding Orbital Motions	
(21 - 28)	3.1	Conservation of Energy in Orbital Motions	
4	4.1	Measuring Distance to Stars	
(29 - 7)			
5	4.2	Starlight and the Classification of Stars	
(10 - 17)	4.3	The Doppler Effect of Celestial Bodies	
6	[Boo	ok E2]	
(18 - 28)	1.1	Rutherford's Model and Scattering	
(10 - 20)	Ехре	eriment	
	1.2	The puzzling Photoelectric Effect	
7	1.2	Einstein's Interpretation of the Photo-Electric Effect	
(31 - 7)	2.1	Atomic Spectra	
8	2.2	Bohr's Model of the Hydrogen Atom	
(8 - 15)	2.3	Particles or Wave?	
9	3.1	Introduction to Nanotechnology	
(21 - 28)	3.2	Seeing at Nano Scale	
10	3.3	Some Current Applications and	
(29 – 6)		Development of Nanotechnology	