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

## NSS F.3 Physics Teaching Syllabus (NSS)(2016-2017)

CYCLE	Topics
14	4.3 Radiation
(15 - 22)	
15	[Book 3A Wave Motion]
(25 - 1)	1.1 Light Rays
10	1.2 The laws of reflection
(2 - 9)	
17	Example of law of reflection
(10 - 26)	
10	1.3 Images formed by a plane mirror
(1 - 8)	
10	2.1 The law of refraction
19 (9 - 16)	
20	Calculation for law of refraction
(17 - 24)	
21	2.2 Total internal reflection
21 (25 - 1)	
22 (12 - 19)	Daily example of total internal reflection
	Calculation for total internal reflection
23 (20 - 27)	
24	3.1 Convex and Concave Lens
(28 - 6)	
25	3.2 Images formed by a convex lens
(7 - 14)	Deu die grane
26	Kay diagrams
(17 - 25) 27	
(26 - 2)	

CYCLE	Topics
1	1.1 Time
(2 - 9)	1.2 Distance and Displacement
	1.3 Speed and velocity
2 (10 - 17)	1.4 Change in velocity and acceleration
3	2.1 Graphs of straight line Motion
(18 - 25)	
4	2.2 Equation of uniformly accelerated motion
(28 - 6)	
Ę	2.3 Free fall motion
(7 - 14)	Review and Exercise
_	3.1 Introduction to forces
6 (15 - 22)	
_	3.2 Inertia and Newton's First Law of Motion
/ (23 - 3)	3.3 Addition and Resolution of Forces
	3.4 Net force and Motion: Newton's Second Law
8 (4 - 13)	
(+ - 13)	3.5 Action and reaction: Newton's third law
9	
(16 - 25)	
	3.6 The turning effect of a force
10	
(20 - 7)	4.1 Work and Energy
12	
(16 - 6)	4.2 Kinetic and Potential Energy

## NSS F.4 Physics Teaching Syllabus (NSS)(2016-2017)

CYCLE		Topics
	4.3	Energy changes
14		
(13-22)		
15	4.4	Power
(25 - 1)		
	5.1	Momentum
16		
(2 - 9)	5.2	Conserving Momentum
	5.2	Example of Conservation of momentum
17 (10 26)		
(10 - 20)		
	6.1	Horizontally projected motion
18 (1 - 8)	62	General projectile motion
(1-0)	0.2	
	7.1	Introduction to circular motion
19 (9 - 16)	72	Uniform circular motion and centrinetal force
(5 10)	8.1	Newton's law of Universal Gravitation
20		
(17 - 24)	8.2	Gravitational Field
22	4.1	The visible spectrum
(12 - 19)		
	4.2	Example of electromagnetic spectrum
23		
(20 - 27)	5.1	Wave Motion
24	5.2	Wave and particle motion of transverse motion
(28 - 6)	5.5	
	6.1	Observing waves
25 (7 14)	67	Poflection and refraction of wayor
(/-14)	6.3	Diffraction
26	_	
(17 - 25)	6.4	Interference
27 (26 - 2)	6.5	Stationary Waves
(20 2)		

CYCLE	Topics
	[Book 3B Wave]
1	7.1 Wave Nature of Wave
	7.2 Young' Double-slit Experiment and the plane transmission
	grating
_	7.3 Electromagnetic Waves
2	8.1 Longitudinal waves
	8.2 Wave nature of sound
3	
	8.3 Properties of sound
4	8.4 Musical notes and noise
	[Book 4]
5	1.1 Electric charges
	1.2 Electric field
6	
7	1.3 Electric potential
7	
0	2.1 Electric current
8	2.2 Electromotive force and potential difference
	2.3 Resistance
	2.3 Resistance
9	2.4 Resistors in series and in parallel
10	2.5 Resistance of ammeters, voltmeters and power sources
10	
10	3.1 Electrical power and energy
12	3.2 Mains electricity and household wiring
12	
13	3.2 Mains electricity and household wiring
	4.1 Magnetic field
14	4.2 Magnetic field of electric currents

## NSS F.5 Physics Teaching Syllabus (NSS)(2016-2017)

CYCLE	Topics
15	4.3 Current -carrying conductor in a magnetic field
16	4.4 Hall effect
17	Revision Exercise
18	5.1 Current generation in a magnetic field
19	5.2 Generators and other applications of electromagnetic induction
20	Revision Exercise
21	6.1 Alternating current
22	6.2 Transformer and high-voltage transmission
	[Book 2]
23	8.1 Newton's law of universal gravitation
	8.2 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 (2016-2017)

CYCLE	PROGRAMME				
	[Book E1]				
1	1.1 The Universe at different scale				
(2 - 9)					
2	2.1 M	1odels of Planetary Motion			
(12 - 20)	2.2 Tł	he Dawn of Modern Astronomy			
3	3.1 U	nderstanding Orbital Motions			
(21 - 28)	3.1 Co	onservation of Energy in Orbital Motions			
4	4.1 M	leasuring Distance to Stars			
(29 - 7)					
5	4.2 St	tarlight and the Classification of Stars			
(10 - 17)	4.3 Tł	he Doppler Effect of Celestial Bodies			
G	[Book E2]				
0 (10 20)	1.1 Ru	utherford's Model and Scattering			
(18 - 28)	Experiment				
	1.2 Tł	he puzzling Photoelectric Effect			
7	1.2 Ei	instein's Interpretation of the Photo-Electric Effect			
(31 - 7)	2.1 At	tomic Spectra			
8	2.2 Bo	ohr's Model of the Hydrogen Atom			
(8 - 15)	2.3 Pa	articles or Wave?			
9	3.1 In	troduction to Nanotechnology			
(21 - 28)	3.2 Se	eeing at Nano Scale			
10	3.3 So	ome Current Applications and			
(29 – 6)	De	evelopment of Nanotechnology			