

**RISHI BANKIM CHANDRA
COLLEGE FOR WOMEN**
DEPARTMENT OF PHYSICS
ACADEMIC CALENDAR
2019-2020

R.B.C. COLLEGE FOR WOMEN

ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSG / PSHH

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks	
1 st Semester (G)	PHSGCOR01T / PHSHGEC01T (MECHANICS)	Mathematical Methods	60	JC/RK	Commencement of Semester-I classes July' 19 • Class test September' 19 Puja vacation October' 19 Semester-I Exam.- December' 19 Winter Recess December' 19	
		Particle Dynamics				
		Gravitation				
		Oscillations				
		Elasticity				
		Special Theory of Relativity				
	PHSGCOR01P	Moment of Inertia	60	JC/RK		
		Rigidity Modulus				
		Young's Modulus				
		Kater's Pendulam				
		Hight Measurement using Sextant				
		Elastic Constant by Searle's method				
		Motion of spring				

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SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSG / PSHH

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	PHSGCOR02T / PHSHGEC02T (Electricity and Magnetism)	Vector analysis	60	RK/JC	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 20 • Summer Recess May' 20-June' 20 • Semester-II Exam.- June' 20
		Electrostatics			
		Magnetism			
		Linear Network			
		Electromagnetic induction			
		Maxwell's Equations and			
		Electromagnetic Wave Propagation			
	PHSGCOR02P	1. Carey Foster's Bridge.	60	RK / JC	
		2. Thevenin and Norton theorems.			
	3. Superposition and Maximum power transfer theorems.				
	4. Self-inductance of a coil by Anderson's bridge.				
	5. Series LCR				
	6. Parallel LCR				
	7. Potentiometer				
	8. RC Circuit				

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SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSG / PHSW

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3rd Semester (G)	PHSGCOR03T / PHSHGEC03T (Thermal Physics and Statistical Mechanics)	1. Laws of Thermodynamics 2. Thermodynamic Potentials 3. Kinetic Theory of Gases 4. Theory of Radiation 5. Statistical Mechanics	60	RK / JC	Commencement of Semester-III classes • July' 19 Puja vacation October' 19 • Semester-III Exam.– December' 19 • Winter Recess December' 19
	PHSGCOR03P	1. Measurement of conductivity of a bad conductor 2. Diode sensor 3. Determination of Stefan constant 4. Thermo-EMF of a thermocouple 5. Calibration of thermocouple (two) 6. Mechanical equivalent of heat, J 7. Coefficient of thermal conductivity of Cu (two) 8. Temperature coefficient of resistance by PRT	60	RK / JC	

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	PHSGCOR04T / PHSHGEC (Waves and optics)	1. Superposition of two collinear harmonic oscillations 2. Superposition of two perpendicular harmonic oscillations 3. Waves motion-general 4. Fluids 5. Sound 6. Wave optics 7. Interference 8. Michelson's interferometer 9. Diffraction 10. Polarization	60	JC /RK	<ul style="list-style-type: none"> • Commencement of Semester-IV classes • January' 20 • Summer Recess May' 20-June' 20 • Semester-IV Exam - June' 20
	PHSGCOR04P	Waves and optics Lab	60	RK / JC	

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SUBJECT: PHYSICS (GENERAL)

PART III

SUBJECT CODE: PHSG

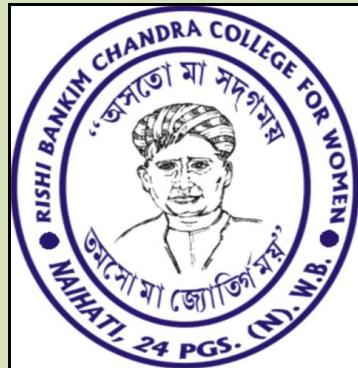
PAPER IV

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 rd Year/Part III (Paper IV)	PHSG (PAPER IVA)	Mechanics and thermodynamics Production and measurement of high vacuum. Heat engines Conventional energy sources Non-conventional energy sources Digital electronics Instruments Communications Transmission of electromagnetic waves Transmission through media Computer and programming in Fortran	85	RK/JC	<ul style="list-style-type: none"> • Commencement of third year classes July /August' 19 • Puja vacation October' 19/Winter Recess December' 19 • Part-III Test Exam. Jan' 20 / Test Result Feb' 20 / Form Fill Up (Part-III) Mar' 20 • Part-III Exam. April-May' 20/ Summer Recess May-June ' 20
	PHSG (PAPER IVB)	Practical: Electronic / Electrical / Computer	25		

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SUBJECT CODE: PHSG / PSHH

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (G)	PHSGCOR01T / PHSHGEC01T (MECHANICS)	Mathematical Methods	60	JC/RK	Commencement of Semester-I classes July' 20 Puja vacation October' 20 – November 20 Semester-I Exam.– December' 20 Winter Recess December' 20
		Particle Dynamics			
		Gravitation			
		Oscillations			
		Elasticity			
		Special Theory of Relativity			
	PHSGCOR01P	Moment of Inertia	60	JC/RK	• • • • •
		Rigidity Modulus			
		Young's Modulus			
		Kater's Pendulam			
		Hight Measurement using Sextant			
		Elastic Constant by Searle's method			
		Motion of spring			

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2nd Semester (General)	PHSGCOR02T / PHSHGEC02T (Electricity and Magnetism)	Vector analysis Electrostatics Magnetism Linear Network Electromagnetic induction Maxwell's Equations and Electromagnetic Wave Propagation	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 21 • Summer Recess May' 21-June' 21 • Semester-II Exam.- June' 21
	PHSGCOR02P	1. Carey Foster's Bridge. 2. Thevenin and Norton theorems. 3. Superposition and Maximum power transfer theorems. 4. Self-inductance of a coil by Anderson's bridge. 5. Series LCR 6. Parallel LCR 7. Potentiometer 8. RC Circuit	60	RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (G)	PHSGCOR03T / PSHIGEC03T (Thermal Physics and Statistical Mechanics)	1. Laws of Thermodynamics 2. Thermodynamic Potentials 3. Kinetic Theory of Gases 4. Theory of Radiation 5. Statistical Mechanics	60	RK / JC	<ul style="list-style-type: none"> • Commencement of Semester-III classes • July' 20 • Puja vacation October' 20 – November 20 • Semester-III Exam.– December' 20 • Winter Recess December' 20
	PHSGCOR03P	1. Measurement of conductivity of a bad conductor 2. Diode sensor 3. Determination of Stefan constant 4. Thermo-EMF of a thermocouple 5. Calibration of thermocouple (two) 6. Mechanical equivalent of heat, J 7. Coefficient of thermal conductivity of Cu (two) 8. Temperature coefficient of resistance by PRT	60	RK / JC	

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	PHSGCOR04T / PHSHGEC (Waves and optics)	1. Superposition of two collinear harmonic oscillations 2. Superposition of two perpendicular harmonic oscillations 3. Waves motion-general 4. Fluids 5. Sound 6. Wave optics 7. Interference 8. Michelson's interferometer 9. Diffraction 10. Polarization	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-IV classes • January' 21 • Summer Recess May' 21 - June' 21 • Semester-IV Exam. – June' 21
	PHSGCOR04P	Waves and optics Lab	60	RK	

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SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PSHS / PHSG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 th Semester (G)	PHSGDSE02T (Perspectives of modern physics)	1. Relativistic dynamics 2. Quantum theory of light 3. Bohr's model 4. Wave-particle duality 5. Wave-function description 6. Stationary state problems 7. Atomic physics 8. Nuclear physics 9. X-ray and crystal structure of solids	75	JC / RK	<ul style="list-style-type: none"> • Commencement of Semester-V classes • July' 20 • Puja vacation October' 20- • November' 20 • Semester-V Exam. – December' 20 • Winter Recess December' 20

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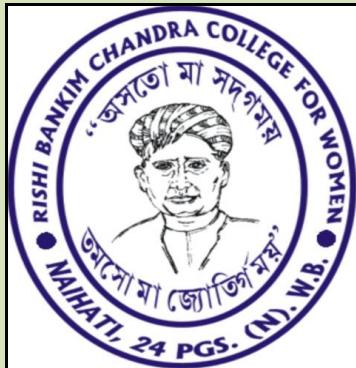
SUBJECT CODE: PHSG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 th Semester (General)	PHSGDSE04T (Nuclear and Particle physics)	1. Preliminary topics 2. General properties of nuclei 3. Nuclear models 4. Radioactivity decay 5. Nuclear reactions 6. Interaction of nuclear radiation with matter 7. Detector for nuclear radiations 8. Particle accelerators 9. Particle physics	75	RK	<ul style="list-style-type: none"> • Commencement of Semester-VI classes • January' 21 • Summer Recess May' 21-June' 21 • Semester-VI Exam. – June' 21
	SKILL ENHANCEMENT COURSE (SEC) PHSSSEC02M	Computational physics	30	RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (G)	PHSGCOR01T / PHSHGEC01T (MECHANICS)	Mathematical Methods	60	RK	Commencement of Semester-I classes July' 21 • Puja vacation October' 21 Semester-I Exam.— December' 21 Winter Recess December' 21
		Particle Dynamics			
		Gravitation			
		Oscillations			
		Elasticity			
		Special Theory of Relativity			
	PHSGCOR01P	Moment of Inertia	60	RK	Commencement of Semester-I classes July' 21 • Puja vacation October' 21 Semester-I Exam.— December' 21 Winter Recess December' 21
		Rigidity Modulus			
		Young's Modulus			
		Kater's Pendulam			
		Hight Measurement using Sextant			
		Elastic Constant by Searle's method			
		Motion of spring			

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2nd Semester (General)	PHSGCOR02T / PHSHGEC02T (Electricity and Magnetism)	Vector analysis	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 22 • Summer Recess May' 22-June' 22 • Semester-II Exam.- June' 22
		Electrostatics			
		Magnetism			
		Linear Network			
		Electromagnetic induction			
		Maxwell's Equations and Electromagnetic Wave Propagation			
	PHSGCOR02P	1. Carey Foster's Bridge. 2. Thevenin and Norton theorems. 3. Superposition and Maximum power transfer theorems. 4. Self-inductance of a coil by Anderson's bridge. 5. Series LCR 6. Parallel LCR 7. Potentiometer 8. RC Circuit	60	RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (G)	PHSGCOR03T / PHSHGEC03T (Thermal Physics and Statistical Mechanics)	1. Laws of Thermodynamics 2. Thermodynamic Potentials 3. Kinetic Theory of Gases 4. Theory of Radiation 5. Statistical Mechanics	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-III classes • July' 21 • Puja vacation October' 21 • Semester-III Exam.- December' 21 • Winter Recess December' 21
	PHSGCOR03P	1. Measurement of conductivity of a bad conductor 2. Diode sensor 3. Determination of Stefan constant 4. Thermo-EMF of a thermocouple 5. Calibration of thermocouple (two) 6. Mechanical equivalent of heat, J 7. Coefficient of thermal conductivity of Cu (two) 8. Temperature coefficient of resistance by PRT	60	RK	

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	PHSGCOR04T / PHSHGEC (Waves and optics)	1. Superposition of two collinear harmonic oscillations 2. Superposition of two perpendicular harmonic oscillations 3. Waves motion-general 4. Fluids 5. Sound 6. Wave optics 7. Interference 8. Michelson's interferometer 9. Diffraction 10. Polarization	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-IV classes • January' 22 • Summer Recess May' 22 - June' 22 • Semester-IV Exam. – June' 22
	PHSGCOR04P	Waves and optics Lab	60	RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5th Semester (G)	PHSGDSE02T (Perspectives of modern physics)	1. Relativistic dynamics 2. Quantum theory of light 3. Bohr's model 4. Wave-particle duality 5. Wave-function description 6. Stationary state problems 7. Atomic physics 8. Nuclear physics 9. X-ray and crystal structure of solids	75	RK	<ul style="list-style-type: none"> • Commencement of Semester-V classes July' 21 • Puja vacation October' 21 • Semester-V Exam.– December' 21 • Winter Recess December' 21

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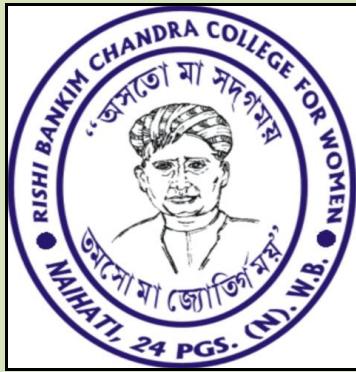
SUBJECT CODE: PHSG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 th Semester (General)	PHSGDSE04T (Nuclear and Particle physics)	1. Preliminary topics 2. General properties of nuclei 3. Nuclear models 4. Radioactivity decay 5. Nuclear reactions 6. Interaction of nuclear radiation with matter 7. Detector for nuclear radiations 8. Particle accelerators 9. Particle physics	75	RK	<ul style="list-style-type: none"> • Commencement of Semester-VI classes • January' 22 • Summer Recess May' 22-June' 22 • Semester-VI Exam. – June' 22
	SKILL ENHANCEMENT COURSE (SEC) PHSSSEC02M	Computational physics	30	RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks	
1 st Semester (G)	PHSGCOR01T / PHSHGEC01T (MECHANICS)	Mathematical Methods	60	RK	Commencement of Semester-I classes July' 22 • Puja vacation October' 22 Semester-I Exam.— December' 22 Winter Recess December' 22	
		Particle Dynamics				
		Gravitation				
		Oscillations				
		Elasticity				
		Special Theory of Relativity				
	PHSGCOR01P	Moment of Inertia	60	RK		
		Rigidity Modulus				
		Young's Modulus				
		Kater's Pendulam				
		Hight Measurement using Sextant				
		Elastic Constant by Searle's method				
		Motion of spring				

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	PHSGCOR02T / PHSHGEC02T (Electricity and Magnetism)	Vector analysis	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 23 • Summer Recess May' 23-June' 23 • Semester-II Exam.- June' 23
		Electrostatics			
		Magnetism			
		Linear Network			
		Electromagnetic induction			
		Maxwell's Equations and Electromagnetic Wave Propagation			
	PHSGCOR02P	<ol style="list-style-type: none"> 1. Carey Foster's Bridge. 2. Thevenin and Norton theorems. 3. Superposition and Maximum power transfer theorems. 4. Self-inductance of a coil by Anderson's bridge. 5. Series LCR 6. Parallel LCR 7. Potentiometer 8. RC Circuit 	60	RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (G)	PHSGCOR03T / PHSHGEC03T (Thermal Physics and Statistical Mechanics)	1. Laws of Thermodynamics 2. Thermodynamic Potentials 3. Kinetic Theory of Gases 4. Theory of Radiation 5. Statistical Mechanics	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-III classes • July' 22 • Puja vacation October' 22 • Semester-III Exam.- December' 22 • Winter Recess December' 22
	PHSGCOR03P	1. Measurement of conductivity of a bad conductor 2. Diode sensor 3. Determination of Stefan constant 4. Thermo-EMF of a thermocouple 5. Calibration of thermocouple (two) 6. Mechanical equivalent of heat, J 7. Coefficient of thermal conductivity of Cu (two) 8. Temperature coefficient of resistance by PRT	60	RK	

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	PHSGCOR04T / PHSHGEC (Waves and optics)	1. Superposition of two collinear harmonic oscillations 2. Superposition of two perpendicular harmonic oscillations 3. Waves motion-general 4. Fluids 5. Sound 6. Wave optics 7. Interference 8. Michelson's interferometer 9. Diffraction 10. Polarization	60	RK	<ul style="list-style-type: none"> • Commencement of Semester-IV classes • January' 23 • Summer Recess May' 23 - June' 23 • Semester-IV Exam. – June' 23
	PHSGCOR04P	Waves and optics Lab	60	RK	

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SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PSHS / PHSG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5th Semester (G)	PHSGDSE02T (Perspectives of modern physics)	1. Relativistic dynamics 2. Quantum theory of light 3. Bohr's model 4. Wave-particle duality 5. Wave-function description 6. Stationary state problems 7. Atomic physics 8. Nuclear physics 9. X-ray and crystal structure of solids	75	RK	<ul style="list-style-type: none"> • Commencement of Semester-V classes July' 22 • Puja vacation October' 22 • Semester-V Exam.– December' 22 • Winter Recess December' 22

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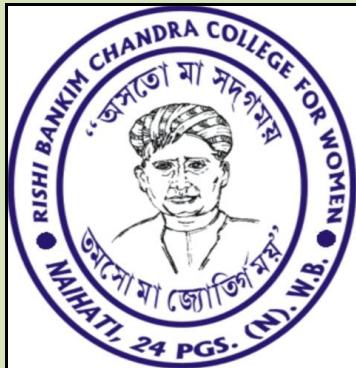
SUBJECT CODE: PHSG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 th Semester (General)	PHSGDSE04T (Nuclear and Particle physics)	<ol style="list-style-type: none"> 1. Preliminary topics 2. General properties of nuclei 3. Nuclear models 4. Radioactivity decay 5. Nuclear reactions 6. Interaction of nuclear radiation with matter 7. Detector for nuclear radiations 8. Particle accelerators 9. Particle physics 	75	RK	<ul style="list-style-type: none"> • Commencement of Semester-VI classes • January' 23 • Summer Recess May' 21-June' 23 • Semester-VI Exam. – June' 23
	SKILL ENHANCEMENT COURSE (SEC) PHSSSEC02M	Computational physics			

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DEPARTMENT OF PHYSICS

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ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSCOR / PHSMIN

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)/credits	Teachers	Remarks
1 st Semester (G) (NEP)	PHSCOR101T / PHSMIN101T (MECHANICS THEORY)	Vectors Particle Dynamics Gravitation Oscillations Elasticity	45	RK & DR	
	PHSCOR101P Mechanics (Minor 1) Lab	Moment of Inertia Rigidity Modulus of a wire by torsional pendulum Young's Modulus by flexure method Value of g using Kater's Pendulum Coefficient of viscosity of water (Poiseuille's method) To determine value of g using Bar Pendulum Determine g and velocity of freely falling body using digital timing technique.	2 credit	RK & DR	<ul style="list-style-type: none"> • Commencement of Semester-I classes August' 23 • Puja vacation October-November' 23 • Semester-I Exam.- April' 24 • Winter Recess December' 23 •

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SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSCOR / PHSMIN

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (G) (NEP)	PHSCOR202T / PHSMIN202T (Electricity and Magnetism Theory)	Vector analysis	45	DR & RK	
		Electrostatics			
		Magnetism			
2 nd Semester (G) (NEP)	PHSCOR202P (Electricity and Magnetism (Minor-2) Lab)	Linear Network			
		Electromagnetic induction			
		1. Carey Foster's Bridge.	2 credit	RK & DR	<ul style="list-style-type: none"> • Commencement of Semester-II classes May' 24 • Summer Recess May' 24-June' 24 • Semester-II Exam.- To be held in August' 24
		2. Thevenin and Norton theorems.			
		3. Superposition and Maximum power transfer theorems.			
		4. Self-inductance of a coil by Anderson's bridge.			
		5. Series LCR			
2 nd Semester (G) (NEP)	SKILL ENHANCEMENT COURSE (SEC 2) PHSHSE201M	6. Potentiometer			
		7. Measurement of B and its variation in a solenoid			
2 nd Semester (G) (NEP)	SKILL ENHANCEMENT COURSE (SEC 2) PHSHSE201M	Computational Physics	3 credit	DR & RK	

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (G)	PHSGCOR03T / PHSIGEC03T (Thermal Physics and Statistical Mechanics)	1. Laws of Thermodynamics 2. Thermodynamic Potentials 3. Kinetic Theory of Gases 4. Theory of Radiation 5. Statistical Mechanics	60	RK & DR	<ul style="list-style-type: none"> • Commencement of Semester-III classes - September ' 23 • Puja vacation October-November' 23 • Semester-III Exam.- January' 24 • Winter Recess December' 23

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	PHSGCOR04T / PHSHGEC (Waves and optics)	1. Superposition of two collinear harmonic oscillations 2. Superposition of two perpendicular harmonic oscillations 3. Waves motion-general 4. Fluids 5. Sound 6. Wave optics 7. Interference 8. Michelson's interferometer 9. Diffraction 10. Polarization	60	DR & RK	<ul style="list-style-type: none"> • Commencement of Semester-IV classes • February' 24 • Summer Recess May-June' 24 • Semester-IV Exam - To be held in August' 24
	PHSGCOR04P	Waves and optics Lab	60	DR & RK	

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ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSH / PHSG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 th Semester (G)	PHSGDSE02T (Perspectives of modern physics)	1. Relativistic dynamics 2. Quantum theory of light 3. Bohr's model 4. Wave-particle duality 5. Wave-function description 6. Stationary state problems 7. Atomic physics 8. Nuclear physics 9. X-ray and crystal structure of solids	75	RK & DR	<ul style="list-style-type: none"> • Commencement of Semester-V classes September ' 23 • Puja vacation October-November' 23 • Semester-V Exam.- January' 24 • Winter Recess December' 23

R.B.C. COLLEGE FOR WOMEN

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: PHYSICS (GENERAL)

SUBJECT CODE: PHSG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 th Semester (General)	PHSGDSE04T (Nuclear and Particle physics)	1. Preliminary topics 2. General properties of nuclei 3. Nuclear models 4. Radioactivity decay 5. Nuclear reactions 6. Interaction of nuclear radiation with matter 7. Detector for nuclear radiations 8. Particle accelerators 9. Particle physics	75	DR & RK	<ul style="list-style-type: none"> • Commencement of Semester-VI classes • February' 24 Summer Recess May-June' 24 • Semester-VI Exam. -July ' 24 •
	SKILL ENHANCEMENT COURSE (SEC) PHSSEC02M	Computational physics	30	DR & RK	

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