P.N. DAS COLLEGE

DEPARTMENT OF PHYSICS

ACADEMIC CALENDAR 2024-25

CBCS + NEP SYSTEM

SEMESTER-I-(GENERAL)(PHSG)

UNDER NEP 2020 SESSION-AUG,2024-FEB,2025

PAPER	UNIT	ΤΟΡΙϹ	NO OF	NAME OF THE
			LECTURES	TEACHER
	I	VECTORS	10	
	II	PARTICLE DYNAMICS	14	Dr. SHARMILA DE
	111	GRAVITATION	07	PRODESH SARKAR
	IV	OSCILLATIONS	06	
	v	ELASTICITY	08	
	1.	TO DETERMINE MOMENT OF INERTIA OF A REGULAR BODY USING ANOTHER AUXILARY BODY AND A CRADLE SUSPENDED BY A METAL WIRE	04	Dr. SHARMILA DE
	2.	TO DETERMINE g AND VELOCITY OF FOR A FREELY BODY USING DIGITAL TIMING TECHNIQUE	05	

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3.	TO DETERMINE YOUNG'S MODULUS BY FLEXURE METHOD	04	
4.	TO DETERMINE THE MODULUS OF RIGIDITY OF A WIRE BY A TORSIONAL PENDULUM	05	PRODESH SARKAR
5.	TO DETERMINE THE VALUE OF g USING BAR PENDULUM	04	
6.	TO DETERMINE THE VALUE OF g USING KATER'S PENDULUM	04	
7.	To determine the coefficient of Viscosity of water by capillary flow method.	04	

SEMESTER-II-(GENERAL)(PHSG)

UNDER NEP 2020

SESSION-MAR-AUG,2024

PAPER	UNIT	ΤΟΡΙΟ		NAME OF THE
	••••			ТЕЛСИЕР
			LECTORES	TEACHER
	I	VECTOR ANALYSIS	12	Dr. SHARMILA DE
	п	ELECTROSTATICS	18	
	ш	MAGNETISM	10	
	IV	ELECTROMAGNETIC INDUCTION	06	PRODESH SARKAR
	v	LINEAR NETWORK	05	
	VI	MAXWELL'S EQUATION AND ELECTROMAGNETIC WAVE PROPAGATION	09	
	1.	TO DETERMINE AN UNKNOWN LOW REGISTANCE USING CAREY FOSTER'S BRIDGE TO VERIFY THEVENIN AND	03	Dr. SHARMILADE
		NORTON THEORMS		
	3.	TO VERIFY SUPERPOSITION AND MAXIMUM POWER	03	

	TRANSFER THEORM		
4.	TO DETERMINE SELF	03	
	INDUCTANCE OF A COIL		
	BY ANDERSON'S BRIDGE		
5.	TO STUDY RESPONSE	03	
	CURVE OF A SERIES LCR		
	CIRCUIT AND DETERMINE		
	ITS (a) RESONANT		
	FREEQUENCY (b)		
	IMPEDANCE AT		
	RESONANCE (c) QUALITY		
	FACTOR AND (d) BAND		
	WIDTH		
			PRODESH
6.	TO STUDY THE RESPONSE	03	SARKAR
	CURVE OF A PARALLEL		
	LCR CIRCUIT AND		
	DETERMINE ITS (a) ANTI-		
	RESONANT FREQUENCY		
	AND (b) QUALITY FACTOR		
-		00	
7.		03	
	CHARACTERISTICS OF A		
	SERIES RC CIRCUIT		
8.	TO DETERMINE	03	
	UNKNOWN LOW		
	REGISTANCE USING		
	POTENTIOMETER		
•	IO DETERMINE THE		
9.	REGISTANCE OF A	03	
	GALVANOMETER USING		
	MEASUREMENT OF FIELD		
10.	STRENGTH B AND ITS	03	
	VARIATION IN A		
	SOLENOID		

SEMESTER-III-(GENERAL)(PHSG)

UNDER NEP 2020

SEMESTER-IV-(GENERAL)(PHSG)

UNDER NEP 2020

SEMESTER-V-(GENERAL)(PHSG)

UNDER CBCS

SESSION-SEP,2024-FEB,2025

PAPER	UNIT	ΤΟΡΙϹ	NO OF	NAME OF THE
			LECTURES	TEACHER
PHSGDSE01T	I	DIGITAL CIRCUITS	15	
(Theory)				
	II	SEMICONDUCTOR	15	
		DEVICES AND AMPLIFIERS		PRODESH
			14	SARKAR
			14	SARRAR
	IV	INSTRUMENTATIONS	16	
	1		02	
(Practical)	1.		03	
(Fractical)		FREQUENCY OF A		
		PERIODIC WAVEFORM		
		USING CRO		
	2.		03	
		TO VERIFY AND DESIGN		
		AND, OR, NOT AND XOR		
		GATES USING NAND		
		GATES		
	3.		03	
		TO MINIMIZE A GIVEN		
		LOGIC CIRCUIT		

4.		03	
	HALF ADDER. FULL		
	ADDER AND 4-BIT BINARY		
5.	ADDER	03	
6.	ADDER-SUBSTRACTOR	03	
	USING FULL ADDER I.C.		
	TO DESIGN AN ASTABLE		PRODESH
	MULTIVIBRATOR OF		
	GIVEN SPECIFICATIONS		SAKKAK
7.	USING 555 TIMER	03	
	TO DESIGN A		
	MONOSTABLE		
	MULTIVIBRATOR OF		
	GIVEN SPECIFICATIONS		
8.	USING 555 TIMER	03	
	TO VERIFY IV		
	CHARACTARISTICS OF PN		
	DIODE, ZENER AND LIGHT		
9.	EMITTIG DIODE	03	
	TO STUDY THE		
	CHARACTARISTICS OF A		
	TRANSISTOR IN CE		
10.	CONFIGARATION	03	
	TO DESIGN A CE		
	AMPLIFIER OF GIVEN		
	GAIN USING VOLTAGE		
	DIVIDER BIAS		

SEMESTER-VI-(GENERAL)(PHSG)

UNDER CBCS

SESSION-MAR-JULY,2025

PAPER	UNIT	ΤΟΡΙϹ	NO OF	NAME OF THE
			LECTURES	TEACHER
PHSGDSE04T (Theory)	I	GENERAL PROPERTIES OF NUCLEI	09	
	II	NUCLEAR MODELS	11	
	Ш	RADIOACTIVE DECAY	10	DDODECU
	IV	NUCLEAR REACTION	08	SARKAR
	v	INTERRACTION OF NUCLEAR RADIATION WITH MATTER	08	
	VI	DETECTOR FOR NUCLEAR RADIATION	07	
	VII	PARTICLE PHYSICS	14	