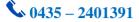
KUMBAKONAM - 612 001



DST - CURIE Sponsored Institution
IV Cycle of Accreditation



Estd. 1963





DEPARTMENT OF PHYSICS - UNDER GRADUATE

SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
1.	18PHC101/ U21PHC101	Properties of Matter & Sound	Professional Ethics	To study various properties of solids and liquids
2.	18PHC203/ U21PHC203	Mechanics and Relativity	Professional Ethics	To comprehend the statics and dynamics of mechanical systems
3.	18PHC304/ U21PHC305	Thermal and Statistical Physics	Professional Ethics	To understand the effect of temperature on materials
4.	18PHC406/ U21PHC407	Optics	Professional Ethics	To know the properties of light, mechanism of transmission and related phenomenon
5.	18PHC507/ U21PHC509	Electricity And Magnetism	Professional Ethics	Explain the fundamental laws of Electrostatics, Magneto statics and electromagnetism
6.	18PHC508/ U21PHC510	Atomic Physics	Professional Ethics	To study the atom models and influence of electrical and magnetic fields
7.	18PHC509/ U21PHC511	Basic Electronics	Professional Ethics	Analyse the physical operation and applications of semiconductor electronic devices
8.	18PHC611/ U21PHC613	Wave Mechanics and Nuclear Physics	Professional Ethics	To know the basic properties of nuclei, postulates of wave mechanics



PRINCIPAL
Government College for Women (Autonomous)
KUMBAKONAM.

KUMBAKONAM - 612 001



DST - CURIE Sponsored Institution IV Cycle of Accreditation

№ 0435 – 2401391







	Estd. 1963			
SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
9.	18PHC612/ U21PHC614	Solid State Physics	Professional Ethics	To understand the physics of solids
10.	18PH6EC4/ U21PH6MBE2 :1	Integrated Electronics	Professional Ethics	To understand the functioning of gates, Boolean algebra and construct digital circuits
11.	U21PH3NME 1:2	Energy Physics	E & S	To insist on the importance of depleting natural recourses and the need to provide alternate solutions through renewable resources to address the energy demands and pave the way for sustainable future
12.	18PH3NMEC1 / U21PH3NME 1:1	Physics made easy	Professional Ethics	To impart the students a simple understanding of the basic concepts of physics.
13.	18PH4NMEC2 / U21PH4NME 2:1	Simple Appliance	Professional Ethics	To provide basic ideas for inspection of electrical devices useful in day to day life.
14.	SBEA/ U214PHSE1	Electrical Appliance	Professional Ethics	To know the principle and theory of current conduction, basic electrical appliances and safety measures.
15.	SBMP/ U214PHSE2	Medical Physics	Professional Ethics	To understand the basics of Medical physics and related medical instrumentation
16.	SBAV/ U214PHSE3	Audio and Video System	Professional Ethics	To know the instrumentation and mechanism involved in audio and video transmission systems



Government College for Women(Autonomous) KUMBAKONAM.

KUMBAKONAM - 612 001



DST - CURIE Sponsored Institution IV Cycle of Accreditation

3 0435 − 2401391

Estd. 1963



principal@gcwk.ac.in



SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
17.	18PH5EC3:1/ U21PH5MBE1 :1	Spectroscopy And Laser Physics	Professional Ethics	To study rotational, vibrational, electronic and Raman spectra of molecules and to understand the basic principles of laser and its applications.
18.	18PH5EC3:2	Solid state and Material Science	Professional Ethics	To understand the Physics of solids including crystal structure, bonding and electrical conductivity.
19.	18PH6EC4:1/ U21PH6MBE2 :1	Integrated Electronics	Professional Ethics	To understand the functioning of gates, Boolean algebra and construct digital circuits
20.	18PH6EC5:1/ U21PH6MBE3 :1	Computer Programming - C Language	Professional Ethics	Develop programs using C language
21.	18PHC202P1/ U21PHC101	Major Practical-I	Professional Ethics	To give hands on experience in performing experiments related to various branches of physics
22.	18PHC405P2/ U21PHC204P	Major Practical-II	Professional Ethics	To give hands on experience in performing
23.	18PHC510P3/ U21PHC306P	Major Practical-III	Professional Ethics	experiments related to various branches of physics
24.	18PHC613P4/ U21PHC408P	Major Practical - IV	Professional Ethics	To give hands on experience in performing



PRINCIPAL
Government College for Women (Autonomous) KUMBAKONAM.

KUMBAKONAM - 612 001



DST - CURIE Sponsored Institution IV Cycle of Accreditation



principal@gcwk.ac.in



DEPARTMENT OF PHYSICS - POST GRADUATE

4 0435 – 2401391

Estd. 1963

SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
1.	P18PHC101/	Classical	Professional Ethics	To understand the mechanics of classical
	P21PHC101	Dynamics &		systems by
		Relativity		formulating Lagrangian or Hamiltonian
				and find the
				equations of motions.
2.	P18PHC102/	Mathematical	Professional Ethics	To be proficient in vector theory, group
	P21PHC102	Physics		theory and special functions essential to
				understand physical systems.
3.	P18PHC103/	Statistical	Professional Ethics	To understand the mechanics of systems by
	P21PHC205	Mechanics		formulating different theories of classical
				and quantum statistical mechanics.
4.	P21PH1MBE1	Analog	Professional Ethics	To analyze the operation of various analog
	:1	Electronics,		electronic
		Microprocessor		devices and to understand the circuits and
		and		functioning
		microcontroller		of gates, Boolean algebra and construct
				digital circuits.
5.	P18PHC104P1	Practical I-	Professional Ethics	To understand the principles of Physics by
	P21PHC104P	General		performing experiments related to various
		Experiments		branches of physics.
6.	P18PHC205/	Numerical	Professional Ethics	Problem solving with numerical
	P21PHC103	Methods		techniques.
7.	P18PHC206/	Quantum	Professional Ethics	To formulate and solve Schrodinger wave
	P21PHC206	Mechanics		equations to determine the dynamics of
				quantum mechanical systems.
8.	P18PHC207P2	Practical II-	Professional Ethics	To perform experiments of analog and
	P21PHC208P	Electronics		digital electronics
	P21PHC208P	Experiments		In addition to few characterization
				techniques.
9.	P18PHC208/	Programming in	Professional Ethics	To identify and practice the object-
	P21PHC208P	C++		oriented programming concepts and
	Piopyers		5 0 1 1 = 1 :	techniques
10.	P18PHC309/	Atomic and	Professional Ethics	To study the theories of atom models and
	P21PHC309	Molecular		analyze atomic spectra using spectroscopic
		Spectroscopy		techniques.



PRINCIPAL Government College for Women(Autonomous) KUMBAKONAM.

KUMBAKONAM - 612 001



DST - CURIE Sponsored Institution IV Cycle of Accreditation

№ 0435 – 2401391





	Estd. 1963	4 0435 2	101071	
SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
11.	P18PHC310/ P21PHC309	Electromagnetic Theory	Professional Ethics	To understand the laws and associated applications involving electromagnetic theory.
12.	P18PHC311/ P21PHC311	Nuclear and Particle Physics	Professional Ethics	To know the structure and properties of nuclei, postulates of wave mechanics and relativity.
13.	P18PHC312P3 / P21PHC312P	Advanced Electronics -I Practical III/	Professional Ethics	To perform experiments of analog and digital electronics in addition to few characterization techniques.
14.	P18PHC413/ P21PHC413	Condensed Matter Physics	Professional Ethics	To interpret the physical properties of solids in the light of crystal structure, bonding and electronic configuration.
15.	P18PHC414P4 / P21PHC414P	Advanced Electronics -II Practical IV	Professional Ethics	To acquire knowledge by performing advanced experiments related to digital, microcontroller and Programming through C language for solving Problems by numerical methods.
16.	P18PWPH415 / P21PHPW415	PROJECT	Professional Ethics	To develop scientific outlook and familiarity with the processes and methods of research
17.	P18PH2EC2:1	Experimental Techniques and Instrumentation	Professional Ethics	To learn various concepts of experimental techniques and data analysis.
18.	P18PH3EC3:1/ P21PH3MBE3: 1	Communication Electronics	Professional Ethics	To know about the principles and theories of signal transmission and reception systems
19.	P18PH4EC4:1	Crystal Growth, Thin film and Nanoscience	Professional Ethics	To understand the mechanism of crystal growth coating of thin films and synthesis of nanomaterials and the related characterization techniques.
20.	P21PH2SE2P	Document Preparation	Professional Ethics	To prepare a Latex document, to make scientific articles and project report.



System – Latex

(Theory)

PRINCIPAL
Government College for Women (Autonomous)
KUMBAKONAM.