SEMESTER: I

SCHEME OF TEACHING and EXAMINATION

		COURSE NAME/TITLE	SCHEDULE OF TEACHING (HOURS PER WEEK)			CREDIT S		MARKS					
NATURE OF COURSE	COURSE CODE		LECTUR	TUTORIA L	PRACTICA L		INTERNAL		МС	PRACTICA	END SEMESTER EXAMINATION		
			E				Theor y	Practica l	Q	L FILE	Theor y	Practica l	
Core	PHY05C101	Mechanics	4	-	-	4	20	-	20	-	60	-	
Core	PH 103C101	Mechanics Lab.	-	-	4	2	-	10	-	10	-	30	
Core	PHY05C102	Mathematical Physics-I	5	1	-	6	20	-	20	-	60	-	
AECC	AEC05AX02	Environment Studies	3	1	-	4	20	-	20	-	60	-	
GE	MTM05GX01	General Mathematics-I	5	1	-	6	20	-	20	-	60	-	
GS	CCE05GX02	Governance, Polity and Indian Constitution	5	-	-	NCC	20	-	20	-	60	-	
		TOTAL	22	3	4		100	10	10				
		IOIAL		22	550								

List of Ability Enhancement Compulsory Courses offered by University and students can anyone courses:

AEC05AX01: General English & Communications AEC05AX03: Communication Skills Enhancement Course

AEC05AX02: Environment Studies

SEMESTER: II

SCHEME OF TEACHING and EXAMINATION

NATURE OF COURSE		COURSE NAME/TITLE	SCHEDULE OF TEACHING (HOURS PER WEEK)			CREDITS		MARKS						
	COURSE CODE		LECTURE	TUTORIAL	PRACTICAL		INTERNAL		MCQ	PRACTICAL	END SEMESTER EXAMINATION			
COCKSE							Theory Practical	1.100	FILE	Theory	Practical			
Core	PHY05C201	Electricity and Magnetism	4	-	-	4	20	-	20	-	60	-		
Core	PH105C201	Electricity and Magnetism Lab.	-	-	4	2	-	10	-	10	-	30		
Core		Waves and Optics	4	-	-	4	20	-	20	-	60	-		
Core	PHY05C202	Waves and Optics Lab.	-	-	4	2	-	10	-	10	-	30		
AECC	AEC05AX01	General English Communication	3	1	-	4	20	-	20	-	60	-		
GE	MTM05GX02	General Mathematics-II	5	1	-	6	20	-	20	-	60	-		
GS	CCE05GX01	Ethics, Integrity and Aptitude	5	-	-	NCC	20	-	20	-	60	-		
		TOTAL	21	2 31	8	22	100	20	100	20 600	300	60		

List of Ability Enhancement Compulsory Courses offered by University and students can anyone courses:

AEC05AX01: General English & Communications

AEC05AX03: Communication Skills Enhancement Course

AEC05AX02: Environment Studies

SEMESTER: III SCHEME OF TEACHING and EXAMINATION

NATURE		COURSE NAME/TITLE		DULE OF TEA OURS PER W		CREDITS		MARKS					
OF COURSE	COURSE CODE		LECTURE	TUTORIAL	PRACTICAL		INTERNAL		MCQ	PRACTICAL	END SEMESTER EXAMINATION		
COURSE				TOTOKIAL			Theor y	Practical	MCQ	FILE	Theory	Practical	
Core	PHY05C301	Mathematical Physics-II	5	1	-	6	20	-	20	-	60	-	
Core	PHY05C302	Thermal Physics	5	1	-	6	20	-	20	-	60	-	
Core		Analog Systems and Applications	4	-	-	4	20	-	20	-	60	-	
Core	PHY05C303	Analog Systems and Applications Lab	-	-	4	2	-	10	-	10	-	30	
SEC	DUVOEVVO1	Basic Instrumentation Skills	3	-	-	3	20	-	20	-	60	-	
SEC	PHY05KX01	Basic Instrumentation Skills Lab.	-	-	2	1	-	10	-	10	-	30	
GE	CHM05GX01	General Chemistry-I	4	-	-	4	20	-	20	-	60	-	
		General Chemistry-I Lab	21	2	10	2	100	10 30	100	10 30	300	30 90	
		TOTAL	21	33	10	28	100	30	100	650	300	90	

List of Skill Enhancement Courses offered by University and students can anyone courses:

PHY05KX01 Basic Instrumentation Skills
PHY05KX02 Computational Physics Skills
PHY05KX03 Electric Circuits and Network Skills

PHY05KX04 Physics Workshop Skills

SCHEME OF TEACHING and EXAMINATION

		COURSE NAME/TITLE	SCHEDULE OF TEACHING(HOURS PER WEEK)			CREDITS						
NATURE OF COURSE	COURSE CODE		LECTURE		PRACTICAL		INTERNAL		MC Q	PRACTICAL FILE	END SEMESTER EXAMINATION	
							Theory	Practical	Q	FILE	Theory	Practica l
Core	PHY05C401	Mathematical Physics-III	5	1	-	6	20	-	20	-	60	-
Core	PHY05C402	Elements of Modern Physics	5	1	-	6	20	20	20	20	60	60
Core	PHY05C403	Digital Systems and Applications	4	-	-	4	20	-	20	-	60	-
Core		Digital Systems and Applications Lab.	-	-	4	2	-	10		10	-	30
SEC	PHY05KX02	Computational Physics	3	-	-	3	20	-	20	-	60	-
	PHTUSKAUZ	Computational Physics Lab.	-	-	2	1	-	10	-	10	-	30
		General Chemistry-II	4	-	-	4	20	-	20	-	60	-
GE	CHM05GX04	General Chemistry-II Lab	-	-	4	2	-	10		10	-	30
			21	2	10		100	50	50			
		TOTAL		33	1	28	750					

List of Skill Enhancement Courses offered by University and students can anyone courses:

PHY05KX01 Basic Instrumentation Skills
PHY05KX02 Computational Physics Skills
PHY05KX03 Electric Circuits and Network Skills
PHY05KX04 Physics Workshop Skills

SEMESTER: V

SCHEME OF TEACHING and EXAMINATION

NATURE			SCHE (He	CREDITS		MARKS						
OF COURSE	COURSE CODE	COURSE NAME/TITLE	LECTURE	TUTORIAL	PRACTICAL		INTE	RNAL	MCQ	PRACTICAL	END SEMESTER EXAMINATION	
0001102							Theory	Practical		FILE	Theory	Practical
Core	PHY05C501	Quantum Mechanics and Applications	5	1	-	6	20	-	20	-	60	60
Core	PHY05C502	Solid State Physics	4	-	-	4	20	-	20	-	60	-
Core		Solid State Physics Lab.	-	-	4	2	-	10	-	10	-	30
DSE	PHY05E503	Astronomy and Astrophysics	5	1	-	6	20	-	20	-	60	-
DSE	PHY05E502	Nuclear Physics	5	1	-	6	20	-	20	-	60	-
GS	CCE05GX03	Development Studies	5	-	-	NCC	20	-	20	-	60	-
		TOTAL 24		3 31	4	24	100	10	100	10 610	300	90

List of Discipline Specific Elective Courses offered by University and students can opt any two courses:

PHY05E501 **Experimental Techniques** PHY05E502

Nuclear Physics Astronomy and Astrophysics Medical Physics PHY05E503

PHY05E504

SEMESTER: VI

SCHEME OF TEACHING and EXAMINATION

NATURE		COURSE NAME/ TITLE	SCHEDULE OF TEACHING (HOURS PER WEEK)			CREDITS		MARKS				
OF COURSE	COURSE CODE		LECTURE	TUTORIAI	PRACTICAL		INTERNAL		MCQ	PRACTICAL	END SEMESTER EXAMINATION	
COCKSE			LLCTCILL	TOTORALE			Theory	Practical		FILE	Theory	Practical
Core puvoco	DINVOCCO1	Electromagnetic Theory	4	-	-	4	20	-	20	-	60	-
Gore	PHY05C601	Electromagnetic Theory	-	-	4	2	-	10	-	10	-	30
Core	PHY05C602	Statistical Mechanics	5	1	-	6	20	-	20	-	60	-
DSE	PHY05E601	Particle Physics	5	1	-	6	20	-	20	-	60	-
DSE	PHY05E602	Nanomaterials and Applications	5	1	-	6	20	-	20	-	60	-
GS	CCE05GX04	History and Culture of India and World	5	-	- 4	NCC	20	-	20	-	60	-
		TOTAL	24	3 31	24 24	100 10 10 10 300 30 550					30	

List of Discipline Specific Elective Courses offered by University and students can opt any two courses:

PHY05E601 Particle Physics

PHY05E602 Nanomaterials and Applications

PHY05E603 Classical Dynamics

PHY05P601 Project