

Department of Physics

Syllabus Frame work:

Sem.	Course	Sub Code	Course Title	Inst Hrs/ week	Credit	Exam Hrs	Marks	
							Int	Ext
I	LC I	113301	Language Course -1	6	3	3	25	75
	ELC I	113801	English Course -1	4	3	3	25	75
	CC I	122601	Mechanics and Properties of Matter	6	4	3	25	75
	CC III	122603	Major Practical I	3	-	**	40	60
	AC I	122161	Allied Subject I Allied Mathematics I	6	5	3	25	75
	NME I		Non-major elective I	2	2	3	25	75
	SS I	114003	Essentials of Language and Communication	3	3	3	40	60
II	LC II	113302	Language Course -2	6	3	3	25	75
	ELC II	113802	English Course -2	4	3	3	25	75
	CC II	122602	Thermal Physics and Acoustics	6	4	3	25	75
	CC III	122603	Major Practical I	3	4	3	40	60
	AC II	122162	Allied Mathematics II	6	5	3	25	75
	NME II		Non-major elective II	2	2	3	25	75
	SS II	114004	Essentials of Spoken and	3	3	3	40	60

			Presentation skill					
Total Credit for I & II Semester = 44 Credits								
III	LC III	113303	Language Course -3	6	3	3	25	75
	ELC III	113803	English Course -3	4	3	3	25	75
	CC IV	122604	Optics and Spectroscopy	6	4	3	25	75
	CC VI	122606	Major Practical II	3	-	**	40	60
	AC I	112261	Allied Chemistry I	4	3	3	25	75
	AC III	112263	Allied Chemistry Practical	3	-	**	40	60
	EVS	114001	Environmental Studies	1	-	**	25	75
	SS III	114005	Personality Enrichment	3	3	3	40	60
IV	LC IV	113302	Language Course -4	6	3	3	25	75
	ELC IV	113802	English Course -4	4	3	3	25	75
	CC V	122605	Atomic Physics	6	4	3	25	75
	CC VI	122606	Major Practical II	3	4	3	40	60
	AC II	112262	Allied Chemistry II	4	3	3	25	75
	AC III	112263	Allied Chemistry Practical	3	4	3	40	60
	EVS	114001	Environmental Studies	1	2	3	25	75
	SS IV	114006	Computing Skill	3	3	3	40	60
	EA	114007	Extension Activity	-	1	-	-	-
Total Credit for III & IV Semester = 43 Credits								

V	CC VII	152607	Electricity and Electromagnetism	4	4	3	25	75
	CC VIII	152608	Nuclear Physics and Particle Physics	4	4	3	25	75
	CC IX	152609	Solid State Physics	4	4	3	25	75
	CC X	152610	Basic Electronics	4	4	3	25	75
	CC XIII	152613	Major Practical III	3	-	**	40	60
	CC XIV	152614	Major Practical IV	3	-	**	40	60
	CC XV	152615	Major Practical V	3	-	**	40	60
	CEC I		Elective Course 1	4	5	3	25	75
	VE	154002	Value Education	1	2	3	25	75
VI	CC XI	152611	Relativity and Quantum Mechanics	5	4	3	25	75
	CC XII	152612	Classical Mechanics and Mathematical Physics	5	4	3	25	75
	CC XIII	152613	Major Practical III	3	4	3	40	60
	CC XIV	152614	Major Practical IV	3	4	3	40	60
	CC XV	152615	Major Practical V	3	4	3	40	60
	CEC II		Elective Course 2	5	5	3	25	75
	CEC III		Elective Course 3	5	5	3	25	75
Total Credit for V & VI Semester = 53 Credits								
Total Credit for 3 years = 140 Credits								

** - Practical Examination at the end of even semester

NON-MAJOR ELECTIVE COURSE:

I SEMESTER		II SEMESTER	
(Any one subject of the following NME chosen by the candidate)		(Any one subject of the following NME chosen by the candidate)	
Sub. Code	Non Major Elective	Sub. Code	Non Major Elective
152631	Non-conventional Energy Sources	152632	Laser Physics
152633	Astrophysics	152634	Everyday Physics
152635	Basic Physics	152636	Essentials of electricity

CORE COURSE ELECTIVES

V SEMESTER		VI SEMESTER	
(Any one subject of the following CCE chosen by the candidate)		(Any two subjects of the following CCE)	
Sub. Code	Core Course Elective	Sub. Code	Core Course Elective
152621	Numerical Methods	152622	Integrated Electronics
152623	Material Science	152624	Microprocessor Fundamentals
152625	Laser and fiber optic communication	152626	Medical Physics
152627	Molecular Biophysics	152628	Applied Physics