

## Syllabus (Choice Based Credit System)

### Semester I

Part	Subject Status	Subject Title
I	Language	Tamil / Other Languages
II	Language	English
III	Core	Mechanics and relativity
III	Core	Properties of matter and acoustics
III	Major Practical-I	Practical-I
III	Allied Paper-1	Allied Mathematics-I
IV	Common	Communicative English

### Semester II

Part	Subject Status	Subject Title
I	Language	Tamil / Other Languages
II	Language	English
III	Core	Thermal physics and statistical mechanics
III	Core	Electricity, Magnetism and Electromagnetism
III	Major Practical-I	Practical-I
III	Allied Paper-II	Allied Mathematics – II
III		
IV	Common	Environmental studies

**Semester III**

Part	Subject Status	Subject Title
I	Language	Tamil / Other Languages
II	Language	English
III	Core	Optics and Spectroscopy
III	Major Practical -II	General Physics practical-II
III	Allied Subject-III	Allied Chemistry – I
III	Allied Subject-III	Allied Chemistry Practicals-1
III	Skill based subject-I	Any one a. Competitive Examination Skills b. Executive Skills c. Disaster Management
IV	Non-Major Elective	Employability Skills
V	Common	Extension activities

**Semester IV**

Part	Subject Status	Subject Title
I	Language	Tamil / Other Languages
II	Language	English
III	Core subjects	Atomic & Nuclear Physics
III	Major practical	General Physics Practical – II
III	Allied Subject-IV	Allied Chemistry – II
III	Allied Subject-III	Allied Chemistry Practicals-1
III	Skill based subject-II	Any one a. Accounting skills b. Emergency and medical lab skills c. Youth red cross
IV	Non -Major Elective	Value education

**Semester V**

<b>Part</b>	<b>Subject Status</b>	<b>Subject Title</b>
I	Core-I	Analog Electronics
II	Core-II	Computer Programming in C
III	Elective – 1 (Select any one )	A) Mathematical Physics B) Non-Conventional Energy Sources C) Laser Physics and Fibre Optics
III	Elective - 2	A) Communication Electronics B) Numerical Methods and statistics C) Solid State Physics
III	Practical (Non Electronics)	General Physics Practical III (No examination in the Fifth Semester)
III	Practical (Electronics)	Electronics Practical IV (No examination in the Fifth Semester)
IV	Skill based subject(Common) (Any two)	1. Entrepreneurial development skills 2. Heritage and tourism 3. Marketing and sales management

**Semester VI**

<b>Part</b>	<b>Subject Status</b>	<b>Subject Title</b>
I	Core	Elements of Theoretical Physics
II	Core	Digital Electronics
III	Core	Quantum Mechanics
III	Elective -III (any one)	A)Microprocessors B) Computer Programming in C++ C) Fundamentals of Nano Science
III	Practical (Non Electronics)	General Physics Practical III
III	Practical (Electronics)	Electronics Practical IV
III	Project	Computer Programming with C++
IV	Skill based subject(Common) (Any two)	a) Fruit And Vegetable Preservation Skills b) Equipment Handling Skills For Events c) National Service Scheme(NSS)