BSc Physics

CBCS - PROGRAMME STRUCTURE

The minimum required Credits for different B.A/B.Sc/B.Com. Courses for the award of the Degree in the CBCS stream: BA, B.Sc B.Com

Accumulated minimum Credits required	120 credits	120 credits
Minimum Credits for Language Courses	33 credits	22 credits
Minimum Credits required for Foundation Courses	5 credits	5 credits
Credits required for Core Courses including Dissertation	50-56 credits	61 credits
Credits required for Complementary Courses	22-28 credits	12 credits
Minimum Credits required forOpen Courses / Electives	4 credits	20 credits
Minimum Credits for Social Service/Extension activity	1 credit	1 credit

BREAKUP OF CREDITS FOR FDP UNDER CBCS STREAM

Category of Courses	**No.**	**Credits**
(1) Language Courses	9	33
(2) Foundation Courses	2	5
(3) Core Courses [including Project]	15	56
(4) Complementary Courses	8	22
(5) Open Courses	2	4
Total credits for a Programme	120	
Social Service/Extension activities	1	

BA/BSc/BCom Programmes: CBCS Stream (Choice Based Credit and Semester Stream)
Compulsory Courses

Language Course I
English (Semesters 1, 2, 3& 4)

Language Course II (Additional Language)
Malayalam/Hindi/ Tamil/French/Syriac(Semesters 1, 2, 3& 4)

Open/ Elective Courses (Compulsory) Semester 5

Semester 1
[2016 Admissions]

Language Course: English
AUEN 111.2 Listening, Speaking and Reading

Additional language Course
AUFR 111.2 Communication Skills in French
AUML 111.2 Malayala Kavitha
AUHN 111.2 Prose and Grammar
AUTM 111.2 Puzhanku Tamil (Communicative Skills in Tamil)
AUSY 111.2 Syriac Poetry, Grammar and History of the Literature (Upto the Golden Age)

Foundation Course-I
AUEN 121.2 Writings on Contemporary Issues

Complementary Courses
AUCH 131.2d Principles of Chemistry I
AUMM131.2d Differentiation and Analytic Geometry

Core Course
AUPY 141 Basic Mechanics & Properties of Matter

Semester 2
[2016 Admissions]

Language Courses: English
AUEN 211.2 Environmental Studies
AUEN 212.2 Modern English Grammar and Usage

Additional language Course
AUHN 211.2 Fiction and Literary Analysis
AUML 211.2 Gadhyasahithyam
AUTM 211.2 Ilakkiya Tamil
AUSY 211.2 Syriac Poetry, Grammar and History of the Literature (Post Golden Age)
AUFR 211.2 Translation and Communication in French

Foundation Course-2
AUPY 221 Classical Mechanics

Complementary Courses
AUCH 231.2d Principles of Chemistry II
AUMM 231.2d Integration Power series and Linear Algebra

Semester 3
[2015 Admissions]

Language Course: English

AUEN 311.2 Writing and Presentation Skills

Additional language Courses

AUHN 311.2 Drama, One Act Plays & Translation
AUML 311.2 Drishyakalasahithyam
AUFR 311.2 French Literature and Interpretation
AUSY 311.2 Syriac Prose, Grammar and History of the Syrian Church in India
AUTM 311.2 Tamilar Naagarigamum Panpaadum

Complementary Courses

AUCH 331.2d Physical and Inorganic Chemistry I
AUMM 31.2d Vectors and Differential Equations

Core Course

AUPY 341 Thermodynamics and Statistical Physics
AUCH 43.2d PI Physical and Inorganic Chemistry I Lab
AUPY 44PIMechanics, Properties of matter, Error measurements, Heat and Acoustics Lab

Semester 4
[2015 Admissions]

Language Course: English

AUEN 411.2 Readings in Literature

Additional language Courses

AUTM 411.2 Ariviyal Tamil
AUFR 411.2 French Culture and Civilisation
AUHN 411.2 Poetry,Long Poems & Culture
AUSY 411.2 Prose,Grammar and History of Syrian Church in India
AUML 411.2 Vinimayam, Sargathmakarachana, Bashavabotham

Complementary Courses

AUCH431.2d Physical and Inorganic Chemistry-II
AUMM 431.2d Complex Analysis, Theory of Equations, Fourier Series and Transforms

Core Courses

AUPY441 Electrodynamics
AUPY44PI Practical: Mechanics, Properties of matter, Error Measurement, Heat and Acoustics
AUCH43PI.2d Practicals – Chemistry

Semester 5
[2014 Admissions]

Open Course
AUPY 581.b Astronomy and Astro Physics

Core Courses
AUPY 541 Methodology in Physics & Relativistic Mechanics
AUPY542 Quantum Mechanics
AUPY 543 Electronics
AUPY 544 Atomic and Molecular Physics

Semester 6
[2014 Admissions]

Elective Course
AUPY691.c Nano Science and Technology

Core Courses
AUPY 641 Solid State Physics
AUPY642 Nuclear and Particle Physics
AUPY 643 Classical and Modern Optics
AUPY 644 Digital Electronics and Computer Science
AUPY 64PII Practical-Optics, Electricity and Magnetism
AUPY 64PIII Electronics & Computer Science
AUPY 645 Project & Study Tour Report