

## BSc Chemistry

### **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 for Open 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**

<b>Category of Courses</b>	<b>No.</b>	<b>Credits</b>
(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)

AUSY111.2 Syriac Poetry, Grammar and History of the Literature (Upto the Golden Age)

Foundation Course-I

AUEN 121.2 Writings on Contemporary Issues

Complementary Courses

AUMM 131.2b Differentiation and Analytic Geometry

AUPY131.2b Rotational Dynamics and Properties of Matter

Core Course

AUCH141 Inorganic Chemistry-I

**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

AUCH 221 Methodology and Perspectives of Sciences and General Informatics

Complementary Courses

AUMM 231.2b Integration, Power Series and Linear Algebra

AUPY 231.2b Thermal Physics

**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 Drishyakalasaahithyam

AUFR 311.2 French Literature and Interpretation

AUSY 311.2 Syriac Prose, Grammar and History of the Syrian Church in India

AUTM 311.2 TamilarNaagarigamumPanpaadam

Complementary Courses

AUMM 331.2b Vectors and Differential Equations

AUPY3 31.2b Optics, Magnetism and Electricity

Core Course

AUCH 341 Inorganic Chemistry II

**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

AUPY 431.2b Atomic Physics, Quantum Mechanics & Electronics

AUMM 431.2b Theory of Equations, Abstract Algebra and Linear Transformations

AUPY 43.2bPI Practical Physics

Core Courses

AUCH 441 Organic Chemistry I

AUCH 44PI Practical I (Qualitative Analysis)

**Semester 5**  
**[2014 Admissions]**

Core Courses

AUCH 541 Physical Chemistry I  
AUCH 542 Inorganic Chemistry III  
AUCH 543 Physical Chemistry II  
AUCH 54PII Lab Course II (Inorganic Volumetric analysis)  
AUCH 54PIII Lab Course III (Physical Chemistry Experiments)

Open Course

AUCH 581.b1 Essentials of Chemistry

**Semester 6**  
**[2014 Admissions]**

Core Courses

AUCH 641 Organic Chemistry II  
AUCH 642 Organic Chemistry III  
AUCH 643 Physical Chemistry III  
AUCH 64PIV Lab Course IV (Organic Chemistry)  
AUCH 64PV Lab Course V (Gravimetry)  
AUCH 644 Project/ factory Visit

Elective Course

AUCH 691.c3 Polymer Chemistry