

## Courses Offered

	<b>Undergraduate :</b>	
<b>(A)</b>	<b>i. Arts</b>	<ol style="list-style-type: none"><li>1. Economics Honours</li><li>2. Education Honours</li><li>3. English Honours</li><li>4. Hindi Honours</li><li>5. History Honours</li><li>6. Home Science Honours</li><li>7. Odia Honours</li><li>8. Philosophy Honours</li><li>9. Political Science Honours</li><li>10. Psychology Honours</li><li>11. Sanskrit Honours</li><li>12. Sociology Honours</li><li>13. Urdu Honours</li></ol>
	<b>ii. Science</b>	<ol style="list-style-type: none"><li>1. Botany Honours</li><li>2. Chemistry Honours</li><li>3. Mathematics Honours</li><li>4. Physics Honours</li><li>5. Zoology Honours</li></ol>
	<b>6. Commerce</b>	<ol style="list-style-type: none"><li>1. Accounting and Finance</li><li>2. Banking and Insurance</li></ol>
<b>(B)</b>	<b>Postgraduate</b>	<ol style="list-style-type: none"><li>1. Chemistry</li><li>2. Mathematics</li><li>3. Economics</li><li>4. Political Science</li><li>5. English</li><li>6. Urdu</li></ol>
<b>(C)</b>	<b>Self-financing Courses</b>	<ol style="list-style-type: none"><li>1. Computer Science</li><li>2. B.C.A</li><li>3. B.Ed.</li></ol>
<b>(D)</b>	<b>Self-financing Courses (Under PPP Mode)</b>	<ol style="list-style-type: none"><li>1. MSW</li><li>2. MPM &amp; IR</li><li>3. MJMC</li><li>4. BBA</li><li>5. BSc. ITM</li><li>6. MTHM</li></ol>

## **Courses started after grant of Autonomy**

<b><u>Undergraduate</u></b>		
<b>Sl. No.</b>	<b><u>Name of the Course</u></b>	<b><u>Year of Started</u></b>
1.	Bachelor of Computer Application (BCA)	2007
2.	Bachelor of Business Administration (BBA)	2016
3.	Bachelor of Science in Information Technology Management (BSc. ITM)	2016
4.	Bachelor in Education	2017
<b>Postgraduate</b>		
1.	P.G in Mathematics	2009
2.	Master in Social Work (MSW)	2015
3.	Master in Personnel Management & Industrial Relation(MPM&IR)	2015
4.	Master in Journalism and Mass Communication (MJMC)	2015
5.	Master in Tourism and Hospitality Management (MT& HM)	2016

## Self-financing Courses started by College

<u>Undergraduate</u>			
Sl. No.	Name of the Course	Year of Started	Approved by
5.	Bachelor of Computer Application (BCA)	2007	Dept. Of Higher Education
6.	Bachelor of Business Administration (BBA)	2016	Dept. Of Higher Education
7.	Bachelor of Science in Information Technology Management (BSc. ITM)	2016	Dept. Of Higher Education
8.	Bachelor in Education	2017	NCTE
<u>Postgraduate</u>			
6.	Master in Social Work (MSW)	2015	Dept. Of Higher Education
7.	Master in Personnel Management & Industrial Relation (MPM & IR)	2015	Dept. Of Higher Education
8.	Master in Journalism and Mass Communication (MAJMC)	2015	Dept. Of Higher Education
9.	Master in Tourism and Hospitality Management (MT& HM)	2016	Dept. Of Higher Education

XII	Practical – Data Structure using C	150	30	120
<b>THIRD SEMESTER</b>				
XIII	Operating System	100	20	80
XIV	Mathematics - III (Probability & Statistics)	100	20	80
XV	Business Practices	100	20	80
XVI	Computer Graphics	100	20	80
XVII	Data Communication and Computer Network	100	20	80
XVIII	Practical – Unix, Windows N.T., Numerical and Statistical Programming	150	30	120
<b>FOURTH SEMESTER</b>				
XIX	Internet Technology and Application - I	100	20	80
XX	Object Oriented Programming with C++	100	20	80
XXI	Accounting	100	20	80
XXII	Data Base System	100	20	80
XXIII	Numerical Analysis	100	20	80
XXIV	Practical – DBMS & C++	150	30	120
<b>FIFTH SEMESTER</b>				
XXV	Internet Technology and Application - II	100	20	80
XXVI	Financial Management	100	20	80
XXVII	Technology Documentation, Permutation and Communication Skill	100	20	80
XXVIII	Visual and Windows Programming	100	20	80
XXIX	Combinatorics and Graph Theory	100	20	80
XXX	Practical – JAVA and Internet Programming	150	30	120
<b>SIXTH SEMESTER</b>				
XXXI	Information System Analysis, Design and Implementation	100	20	80
XXXII	Multimedia & Application	100	20	80
XXXIII	Software Engineering	100	20	80
XXXIV	Network Programming	100	20	80
XXXV	Project Work & Seminar	100	20	80
XXXVI	Practical – Network Programming	150	30	120

**FIFTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	I.S.C.	-	100	20	80
Honours		IX	80	20	60
		X	80	20	60
		XI (Practical)	40	-	40
	Total Marks		300	60	240

**SIXTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	Env. Studies	-	100	20	80
Honours		XII	80	20	60
		XIII	80	20	60
		XIV (Practical)	40	-	40
	Total Marks		300	60	240

**Course Structure for Bachelor in Computer Applications**

<u>Paper</u>	<u>Subject</u>	<u>Full Marks</u>	<u>Internal Assessment</u>	<u>Semester Exam.</u>
<b>FIRST SEMESTER</b>				
I	Mathematics – I	100	20	80
II	English	100	20	80
III	Basic Electronics	100	20	80
IV	Programming Technique and C Programming	100	20	80
V	Computer Fundamentals	100	20	80
VI	Practical – C Programming and I.T.	150	30	120
<b>SECOND SEMESTER</b>				
VII	Mathematics – II	100	20	80
VIII	Computer Organisation and Architecture	100	20	80
IX	Data Structure using C	100	20	80
X	Digital Electronics	100	20	80
XI	Introduction to Discrete Mathematical Structure	100	20	80

**3 YEAR DEGREE ARTS HONOURS COURSE WITH PRACTICAL COMPONENT****FIRST SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	I	50	10	40
	M.I.L.	I	50	10	40
Honours		I	80	20	60
		II (Practical)	20	-	20
Elective	A	I	100	20	80
	Total Marks		300	60	240

**SECOND SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	II	50	10	40
	M.I.L.	II	50	10	40
Honours		III	80	20	60
		IV (Practical)	20	-	20
Elective	A	II	100	20	80
	Total Marks		300	60	240

**THIRD SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	III	50	10	40
	M.I.L.	III	50	10	40
Honours		V	80	20	60
		VI (Practical)	20	-	20
Elective	B	I	100	20	80
	Total Marks		300	60	240

**FOURTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	IV	50	10	40
	M.I.L.	IV	50	10	40
Honours		VII	80	20	60
		VIII (Practical)	20	-	20
Elective	B	II	100	20	80
	Total Marks		300	60	240

**SECOND SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	II	50	10	40
	M.I.L.	II	50	10	40
Honours		II	100	20	80
Elective	A	II	100	20	80
	Total Marks		300	60	240

**THIRD SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	III	50	10	40
	M.I.L.	III	50	10	40
Honours		III	100	20	80
Elective	B	I	100	20	80
	Total Marks		300	60	240

**FOURTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	IV	50	10	40
	M.I.L.	IV	50	10	40
Honours		IV	100	20	80
Elective	B	II	100	20	80
	Total Marks		300	60	240

**FIFTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	I.S.C.	-	100	20	80
Honours		V	100	20	80
		VI	100	20	80
	Total Marks		300	60	240

**SIXTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	Env. Studies	-	100	20	80
Honours		VII	100	20	80
		VIII	100	20	80
	Total Marks		300	60	240

### Three-Year Degree Course in Arts

The Three Year Degree Course leading to the award of Bachelor's Degree in Arts shall be spread over a period of three academic years. There shall be two Semester Examinations in the interval of six months in each year and total six semesters in three years. Further there shall be Internal Assessment Examination to be held in each Theory Paper for 20% of the total marks as prescribed in the tables, in each semester. A Hons. student of Arts stream shall offer one Hons. subject carrying 800 marks and two elective subjects of 400 marks and compulsory subjects of 600 marks. A candidate shall choose two elective subjects (A & B), each carrying 200 marks (without practical component) from among the following subjects:

Indian Polity, Landmarks in Indian History, Mathematics, Statistics, Education, Sanskrit, Philosophy, Sociology and Oriya provided that a student offering Political Science, History, Mathematics, Education, Sanskrit, Philosophy, Sociology and Oriya as one of the Honours subject shall not be allowed to take Indian Polity, Landmarks in Indian History, Mathematics, Education, Sanskrit, Philosophy, Sociology and Oriya, respectively as his/her elective papers. The students of Arts stream shall have to offer any one of the following subjects as their Honours subject:

History, Economics, English, Political Science, Oriya, Sanskrit, Hindi, Urdu, Philosophy, Mathematics, Home Science, Sociology, Education, Psychology. No student shall be allowed to offer Statistics if he/she has not passed either in Statistics or in Mathematics in the H.S. Exam. or any other equivalent examination. No student shall be allowed to take any subject in which there is a practical examination, if he/she had not passed in that subject in the H.S. Exam. or any other equivalent exam., except Education and Psychology. Home Science (Hons.) subject is only for girl students.

A student is allowed to offer any one of the following subjects as M.I.L.: Oriya, Hindi, Alternate English and Urdu.

The course structure and marks distribution in different years for the 3 years Degree Course in B.A. (Hons.) shall be as in the following Tables:

### 3 YEAR DEGREE ARTS HONOURS COURSE WITHOUT PRACTICAL COMPONENT

#### FIRST SEMESTER

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Exam.
Compulsory	English	I	50	10	40
	M.I.L.	I	50	10	40
Honours		I	100	20	80
Elective	A	I	100	20	80
	<b>Total Marks</b>		<b>300</b>	<b>60</b>	<b>240</b>



**Semester I**

<b><u>Category</u></b>	<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
Compulsory	-	Business Economics
Pass	I	Business Regulatory Framework
Hons.	I	Financial Accountancy

**Semester II**

<b><u>Category</u></b>	<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
Compulsory	-	Communicative English
Pass	II	Fundamentals of Entrepreneurship
Hons.	II	Cost Accountancy

**Semester III**

<b><u>Category</u></b>	<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
Pass	III	Principles of Business management
Hons.	III	Business Mathematics
Hons.	IV	Corporate Accounting

**Semester IV**

<b><u>Category</u></b>	<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
Pass	IV	Auditing
Hons.	V	Business Environment
Hons.	VI	Management Accounting

**Semester V**

<b><u>Category</u></b>	<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
Compulsory	-	Environmental Studies
Hons.	VII	Business Statistics
Hons.	VIII	Income Tax

**Semester VI**

<b><u>Category</u></b>	<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
Compulsory	-	Indian Society and Culture
		Accounting and Finance Hons.
Hons.	IX	Financial Statement Analysis and Reporting
Hons.	X	Financial Management
		Banking and Insurance Hons.
Hons.	IX	Commercial Bank Management
Hons.	X	Fundamental of Insurance

**FIFTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Examination
Honours		IX	80	20	60
Honours	Practical	X	80	20	60
		XI	40	-	40
Env. Studies			100	20	80
	Total marks		300	60	240

**SIXTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Examination
Honours		XII	80	20	60
Honours	Practical	XIII	80	20	60
		XIV	40	-	40
I. S. C.			100	20	80
	Total marks		300	60	240

**Three-Year Degree Course in Commerce**

The course structure for B. Com. (Hons.) Programme consists of 18 papers - three papers in each of the six semesters of the three years of study. There are two compulsory papers and two pass papers and two honours papers in the two semesters of the first year. There are two pass papers and four honours papers in the two semesters of the second year. There are two compulsory papers and four honours papers in the two semesters of the third year. In the sixth semester of the third year, both the groups of honours students, i.e., 'Accounting and Finance Group' and 'Banking and Insurance Group' will have to take two honours papers as their special papers. There shall be internal assessment examination for 20% for total marks in each paper. There will be no internal examination for the special papers. The students will undertake a project work (carrying 40 marks) relating to their specialisation area and submit a project report in around 5000 words before the start of sixth semester examination. At the end of every six months in each year, there shall be a semester examination having 80% of the total marks in each paper except the Communicative English in second semester where semester examination will be held for 65% of the total marks. The students have to appear an interview for Spoken English carrying 15% of the total marks. The papers and title of the papers are as follows:

**COURSE STRUCTURE FOR +3 SCIENCE****FIRST SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Examination
Compulsory	English		50	10	40
	M. I. L.		50	10	40
Pass	Practical	I	80	20	60
		II	20	-	20
Honours	Practical	I	80	20	60
		II	20	-	20
	Total marks		300	60	240

**SECOND SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Examination
Pass	Practical	III	80	20	60
		IV	20	-	20
Honours	Practical	III	80	20	60
		IV	20	-	20
Minor Elective			100	20	80
	Total marks		300	60	240

**THIRD SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Examination
Pass	Practical	V	80	20	60
		VI	20	-	20
Honours	Practical	V	80	20	60
		VI	20	-	20
Major Elective		I	100	20	80
	Total marks		300	60	240

**FOURTH SEMESTER**

Category	Subject	Paper	Full Marks	Internal Assessment	Semester Examination
Pass	Practical	VII	80	20	60
		VIII	20	-	20
Honours	Practical	VII	80	20	60
		VIII	20	-	20
Major Elective		II	100	20	80
	Total marks		300	60	240

### **Semester III**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
XI	Philosophy and Rhetoric
XII	Subsidiary Languages
XIII	Quasada
XIV	Masnavi
XV	Marsiya

### **Semester IV**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
XVI	Criticism Part I
XVII	Criticism Part II
XVIII	Ghalib's Prose and Poetry
XIX	Iqbal and his Poetry
XX	Project Work / Term Paper

### **Three-Year Degree Course in Science**

The Three-Year Degree course leading to the award of Bachelor's Degree in Science shall be spread over a period of three academic years. There shall be two Semester Examinations in the interval of six months in each year and total six semesters in three years. Further, there shall be Internal Assessment Examination to be held in each theory paper for 20% of total marks as prescribed in the tables, in each semester.

A B. Sc. (Hons.) student shall choose one Honours subject carrying 800 marks, one pass subject carrying 400 marks, one minor elective carrying 100 marks, one major elective of 200 marks and compulsory subjects carrying 300 marks.

A student with Botany / Zoology as Honours shall take 'Mathematics and Statistics' as minor elective and a student with Physics / Chemistry / Mathematics / Computer Science as Honours shall take Biology as minor elective.

A student shall choose one of the following subjects as major elective: The papers and title of the papers are as follows: Physics, Chemistry, Mathematics, Statistics, Botany, Zoology, provided that a student with any one of the subjects like Physics, Chemistry, Mathematics, Statistics, Botany, Zoology as Honours or Pass shall not be allowed to offer corresponding subject as major elective. Elective subjects shall not carry any practical component.

A student shall be allowed to offer any one of the following language subjects as M. I. L.:

Oriya, Hindi, Alternate English and Urdu.

The student shall choose any two subjects from any one of the following groups as Pass and Honours subjects:

Group A: Botany, Zoology, Chemistry (only pass)

Group B: Physics / Chemistry / Mathematics / Computer Science (only Hons.), Statistics (only Pass).

The course structure and mark distribution in different years for the 3 Year Degree course in B. Sc. (Hons.) shall be as in the following tables:

## Semester IV

<u>Paper</u>	<u>Title of the Paper</u>
XVI	Political Thought II
XVII	Indian Administration II
XVIII	Indian Political Thought II Or Conflict and Peace in International System II Or Problems and Issues of Federalism with reference to USA, Australia and Canada II Or State Politics in India with special reference to Orissa II Or Political Sociology: Concept and Issues II Or Political Ideology II
XIX	Socialist Thought II Or Comparative Study of Foreign Policy of States II Or Party System and Political Participation in India II Or Society and Polity in India II Or India's Foreign Policy II Or Federal Polity in India II
XX	Research Methodology II

## Two-Year Post Graduate Course in Urdu

The course structure for M. A. in Urdu consists of 20 papers, each carrying 50 marks. The papers and title of the papers are as follows:

### Semester I

<u>Paper</u>	<u>Title of the Paper</u>
I	History of Urdu Literature Part I
II	History of Urdu Literature Part II
III	Novel Part I
IV	Novel Part II
V	Medieval Poetry Part I

### Semester II

<u>Paper</u>	<u>Title of the Paper</u>
VI	Medieval Poetry Part II
VII	Modern Poetry Part I
VIII	Modern Poetry Part II
IX	Prose
X	Drama

## Two-Year Post Graduate Course in Political Science

The course structure for M. A. in Political Science consists of 20 papers, each carrying 50 marks. The papers and title of the papers are as follows:

### Semester I

<u>Paper</u>	<u>Title of the Paper</u>
I	Comparative Politics I
II	Public Administration and Management I
III	Contemporary Political Theory and Analysis I
IV	International Politics I
V	Indian Government and Politics: Process and Dynamics I

### Semester II

<u>Paper</u>	<u>Title of the Paper</u>
VI	Comparative Politics II
VII	Public Administration and Management II
VIII	Contemporary Political Theory and Analysis II
IX	International Politics II
X	Indian Government and Politics: Process and Dynamics II

### Semester III

<u>Paper</u>	<u>Title of the Paper</u>
XI	Political Thought I
XII	Indian Administration I
XIII	Indian Political Thought I Or Conflict and Peace in International System I Or Problems and Issues of Federalism with reference to USA and Canada I Or State Politics in India with special reference to Orissa I Or Political Sociology: Concept and Issues I Or Political Ideology I
XIV	Socialist Thought I Or Comparative Study of Foreign Policy of States I Or Party System and Political Participation in India I Or Society and Polity in India I Or India's Foreign Policy I Or Federal Polity in India I
XV	Research Methodology I

(One from Paper XIII and one from Paper XIV to be chosen as special papers. Part II of the special papers chosen will be taught in the Semester IV in Paper XVIII and XIX.)

## **Two-Year Post Graduate Course in English**

The course structure for M. A. in English consists of 20 papers, each carrying 50 marks. The papers and title of the papers are as follows:

### **Semester I**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
I	Poetry I
II	Drama I
III	Non-fictional Prose I
IV	Novel I
V	Criticism I

### **Semester II**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
VI	Poetry II
VII	Drama II
VIII	Non-fictional Prose II
IX	Novel II
X	Criticism II

### **Semester III**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
XI	Indian English Literature I
XII	American Literature I
XIII	World Literature I
XIV	Linguistics and Grammar I
XV	Research and Writing

### **Semester IV**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
XVI	Indian English Literature II
XVII	American Literature II
XVIII	World Literature II
XIX	Linguistics and Grammar II
XX	Seminar and Personality Test

## Two-Year Post Graduate Course in Economics

The course structure for M. A. in Economics consists of 20 papers, each carrying 50 marks. The papers and title of the papers are as follows:

### Semester I

<u>Paper</u>	<u>Title of the Paper</u>
I	Indian Economic Policy I
II	Micro Economics I
III	Macro Economics I
IV	Public Economics I
V	Quantitative Methods I

### Semester II

<u>Paper</u>	<u>Title of the Paper</u>
VI	Indian Economic Policy II
VII	Micro Economics II
VIII	Macro Economics II
IX	Public Economics II
X	Quantitative Methods II

### Semester III

<u>Paper</u>	<u>Title of the Paper</u>
XI	Economics of Growth and Development I
XII	International Trade and Finance I
XIII	Environmental Economics I

**Any two** of the following three groups as paper XIV and XV

<b>Group A</b>	Agricultural Economics I
<b>Group B</b>	Financial Institutions and Markets I
<b>Group C</b>	Mathematical Economics I

### Semester IV

<u>Paper</u>	<u>Title of the Paper</u>
XVI	Economics of Growth and Development II
XVII	International Trade and Finance II
XVIII	Environmental Economics II

**Any two** of the following three groups as paper XIX and XX. The students who will choose Group A in paper XIV/XV (Semester III) has to choose Group D in paper XIX/XX (Semester IV). Similarly, students opting for Group B and C have to opt Group E and F, respectively.

<b>Group D</b>	Agricultural Economics II
<b>Group E</b>	Financial Institutions and Markets II
<b>Group F</b>	Mathematical Economics II



## **Two-Year Post Graduate Course in Commerce**

The course structure for M. Com. programme consists of 20 papers, each carrying 50 marks. The papers and title of the papers are as follows:

### **Semester I**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
I	Management Concepts and Practices
II	Marketing Management
III	Corporate Financial Accounting
IV	Accounting for Managerial Decisions
V	Business Environment

### **Semester II**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
VI	Organisational Behaviour
VII	Project Planning and Control
VIII	Advanced Accounting
IX	Statistical Analysis
X	Corporate Legal Framework

### **Semester III**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
XI	Managerial Economics
XII	Direct Tax
XIII	Research Methodology
XIV	Financial Management
XV	Financial Institutions and Markets

### **Semester IV**

<b><u>Paper</u></b>	<b><u>Title of the Paper</u></b>
XVI	Strategic Management
XVII	Corporate Tax Planning and Management
XVIII	Security Analysis and Portfolio Management
XIX	Cost Management
XX	Project Work (Dissertation)

# COURSE STRUCTURE

## Two-Year Post Graduate Course in Chemistry

The course structure for M. Sc. (Chemistry) consists of 28 papers, each theory paper carrying 40 marks and each practical paper 50 marks. The papers and title of the papers are as follows:

### Semester I

<u>Paper</u>	<u>Title of the Paper</u>
I	Inorganic Chemistry I
II	Organic Chemistry I
III	Physical Chemistry I
IV	Group Theory and Spectroscopy I
V	Computer for Chemists I
VI	Inorganic Chemistry (Practical)
VII	Organic Chemistry (Practical)

### Semester II

<u>Paper</u>	<u>Title of the Paper</u>
VIII	Inorganic Chemistry II
IX	Organic Chemistry II
X	Physical Chemistry II
XI	Spectroscopy II
XII	Biology for Chemists
XIII	Inorganic Chemistry (Practical)
XIV	Organic Chemistry (Practical)

### Semester III

<u>Paper</u>	<u>Title of the Paper</u>
XV	Photo Chemistry
XVI	Bio-inorganic Chemistry
XVII	Bio-organic Chemistry
XVIII	Bio-physical Chemistry
XIX	Environmental Chemistry
XX	Physical Chemistry (Practical)
XXI	Analyt. and Env. Chemistry (Practical)

### Semester IV

<u>Paper</u>	<u>Title of the Paper</u>
XXII	Appl. of Spectroscopy
XXIII	Solid State Chemistry
XXIV	Organic Synthesis
XXV	Bio-inorganic and Supra Molecular Chemistry
XXVI	Polymer Chemistry
XXVII	Physical Chemistry (Practical)
XXVIII	Polymer Chemistry (Practical)