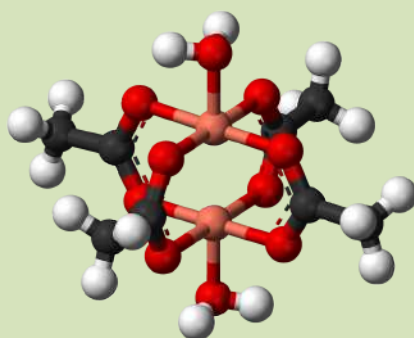


**RISHI BANKIM CHANDRA  
COLLEGE FOR WOMEN**

**DEPARTMENT OF CHEMISTRY**

**ACADEMIC CALENDAR**

**2019-2020**



# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (H)	CEMACOR01T Organic Chemistry-I	Basics of Organic Chemistry Bonding and Physical Properties	25	SD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'19</li> <li>• Puja vacation October'19</li> <li>• Semester-I Exam. – December'19</li> <li>• Winter Recess December'19</li> </ul>
		General Treatment of Reaction Mechanism I	10	SD	
		Stereochemistry I	25	SH	
	CEMACORE01P Organic Chemistry-I LAB	Organic Chemistry I (Lab)	60	SD	
	CEMACORE02T Physical Chemistry- I	Kinetic Theory and Gaseous State	20	LM	
		Chemical Thermodynamics	25	SP	
		Chemical Kinetics	15	SG	
CEMACOR02P Physical Chemistry-I LAB	Physical Chemistry-I Lab	60	SH		

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (G)	CEMGCOR01T	Section-A: Inorganic Chemistry-I	30	BC/PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'19</li> <li>• Puja vacation October'19</li> <li>• Semester-I Exam. – December'19</li> <li>• Winter Recess December'19</li> </ul>
		Section-B: Organic Chemistry-I	30	SD/SH	
	CEMGCOR01P	Section-A: Inorganic Chemistry Lab	30	PD	
		Section-B: Organic Chemistry Lab	30	SD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (Honours)	CEMACOR03T Inorganic Chemistry-I	Extra nuclear structure of atom	18	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'20</li> <li>• Summer Recess May'20-June'20</li> <li>• Semester-II Exam.- June'20</li> </ul>
		Chemical periodicity	08	BC	
		Acid-Base reaction	16	BC	
		Redox Reaction and precipitation reaction	18	PD	
	CEMACOR03P Inorganic Chemistry-I Lab	Inorganic Chemistry-I Lab	60	BC	
	CEMACOR04T Organic Chemistry-II	Stereochemistry-II	20	SD	
		General Treatment of Reaction Mechanism II	22	SD	
		Substitution and Elimination Reaction	18	SH	
	CEMACOR04P Organic Chemistry-II Lab	Organic Chemistry-II Lab	60	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (General)	CEMGCOR02T	Section-A: Physical Chemistry-I	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'20</li> <li>• Summer Recess May'20-June'20</li> <li>• Semester-II Exam.- June'20</li> </ul>
		Section-B: Inorganic Chemistry-II	30	BC/PD	
	CEMGCOR02P	Physical Chemistry-I Lab Section-A	30	SH	
		Section-B: Inorganic Chemistry-II Lab	30	PD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (Honours)	CEMACOR05T Physical Chemistry-II	Transport Process	15	SP/JS	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'19</li> <li>• Puja vacation October'19</li> <li>• Semester-III Exam. – December'19</li> <li>• Winter Recess December'19</li> </ul>
		Applications of Thermodynamics- I	25	SP	
		Foundation of Quantum Mechanics	20	LM/SP	
	CEMACOR05P Physical Chemistry-II Lab	Physical Chemistry-II Lab	60	SH	
	CEMACOR06T Inorganic Chemistry-II	Chemical Bonding-I	24	BC	
		Chemical Bonding-II	24	PD/BC	
		Radioactivity	12	PD	
	CEMACOR06P Inorganic Chemistry-II Lab	Inorganic Chemistry-II Lab	60	BC/PD	
	CEMACOR07T Organic Chemistry-III	Chemistry of alkenes and alkynes	15	SD	
		Aromatic Substitution	10	SD	
		Carbonyl and Related compounds	30	SH	
		Organometallics	05	SD	
	CEMACOR07P Organic Chemistry-III Lab	Organic Chemistry-III Lab	60	SD	
CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD		

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (G)	CEMGCOR03T	Section-A: Physical Chemistry-II	30	SH	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'19</li> <li>• Puja vacation October'19</li> <li>• Semester-III Exam. – December'19</li> <li>• Winter Recess December'19</li> </ul>
		Section-B: Organic Chemistry -II	30	SH/SG	
	CEMGCOR03P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Organic Chemistry Lab	30	SD	
	CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (General)	CEMGCOR04T	Section-A: Physical Chemistry-III	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'20</li> <li>• Summer Recess May'20-June'20</li> <li>• Semester-IV Exam. – June'20</li> </ul>
		Section-B: Analytical and Environmental Chemistry	30	PD/BC	
	CEMGCOR04P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Analytical and Environmental Chemistry Lab	30	PD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (Honours)	CEMACOR08T Physical Chemistry-III	Application of Thermodynamics-II	20	LM/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'20</li> <li>• Summer Recess May'20-June'20</li> <li>• Semester-IV Exam. - June'20</li> </ul>
		Electrical Properties of molecules	20	SP/LM	
		Quantum Chemistry	20	LM/AP	
	CEMACOR08P Physical Chemistry-III Lab	Physical Chemistry-III Lab	60	SH	
	CEMACOR09T Inorganic Chemistry-III	General Principles of Metallurgy	06	PD	
		Chemistry of s and p block elements	30	PD	
		Coordination Chemistry-I	24	BC	
	CEMACOR09P Inorganic Chemistry-III Lab	Inorganic Chemistry-III Lab	60	BC/PD	
	CEMACOR10T Organic Chemistry-IV	Nitrogen compounds	12	SH	
		Rearrangements	14	SH	
		The Logic of Organic Synthesis	14	SD	
		Organic Spectroscopy	20	SD	
	CEMACOR10P Organic Chemistry-IV Lab	Organic Chemistry-IV Lab	60	SD	
CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD		

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (HONOURS)  
PART III

SUBJECT CODE: CEMA  
PAPER V, VI and VII

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 <sup>rd</sup> Year (Paper V)	CEMAT 35-IA Unit I: Unit II:	Chemistry of Coordination Compounds. d and f block Elements.	20 16	BC PD	<ul style="list-style-type: none"> <li>• Commencement of third year classes July /August' 19</li> <li>• Puja vacation October' 19 / Winter Recess December' 19</li> <li>• Part-III Test Exam. Jan' 20 / Test Result Feb' 20 / Form Fill Up (Part-III) Mar' 20</li> <li>• Part-III Exam. April' 20-May' 20 / Summer Recess May' 20-June' 20</li> </ul>
	CEMAT 35-IB Unit I: Unit II:	Organometallics. Gravimetry and Titrimetric analysis.	16 12	BC PD	
	CEMAT 35-AA Unit I: Unit II:	Bioinorganic Chemistry. Material Chemistry.	10 10	BC PD	
	CEMAT 35-AB Unit I: Unit II:	Bioorganic Chemistry. Biophysical Chemistry.	10 10	SD SP	
3 <sup>rd</sup> Year (Paper VI)	CEMAT 36-OA Unit I: Unit II:	Organic Synthesis, Pericyclic, Polynuclear hydrocarbon. Heterocyclics and Pharmaceuticals.	15 12	SD SD	
	CEMAT 36-OB Unit I: Unit II:	Cyclohexanes and Carbohydrates. Amino acids, Natural products and alkaloids.	18 12	SH SD	
	CEMAT 36-PA Unit I: Unit II:	Statistical Thermodynamics and Third Law. Molecular Spectroscopy.	13 14	LM/SP SP	
	CEMAT 36-PB Unit I: Unit II:	Properties of Solids, Interface and Dielectrics. Phase Equilibria and colligative properties.	10 15	LM/SP SP/LM	
3 <sup>rd</sup> Year	CEMAP 37-Pr: (Paper VII)	Physical Chemistry Experiments.	63	SH	
		Organic Chemistry Practical: TLC/Paper etc.	30	SD	
	CEMAP 38-Pr: (Paper VIII)	Inorganic Chemistry Practical.	60	BC	
		Organic Chemistry Preparation.	30	SD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

PART III

PAPER IV

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 <sup>rd</sup> Year/Part III (Paper IV)	CEMGT - 34A Unit I:  Unit II:	Chemical Analysis: Gravimetric & Error analysis; Computer Application  Volumetric analysis.	14  18	PD  PD	<ul style="list-style-type: none"> <li>• Commencement of third year classes July /August'19</li> <li>• Puja vacation October'19 / Winter Recess December'19</li> <li>• Part-III Test Exam. Jan'20 / Test Result Feb'20 / Form Fill Up (Part-III) Mar'20</li> <li>• Part-III Exam. April-May'20 / Summer Recess May-June'20</li> </ul>
	CEMGT – 34B Unit I: Unit II:	Industrial Chemistry - I. Industrial Chemistry - II.	12 15	PD PD	
	CEMGT – 34C Unit I: Unit II:	Environmental Chemistry. Industrial Chemistry - III.	12 13	SP BC	
	CEMGP – 34D	Practical Chemistry: Quantitative chemical analysis.	57	BC/PD	



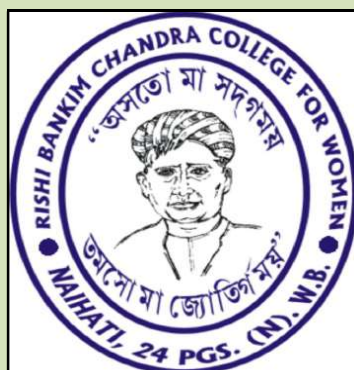
# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2019-2020



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*Department of Chemistry*  
*Rishi Bankim Chandra College for Women*

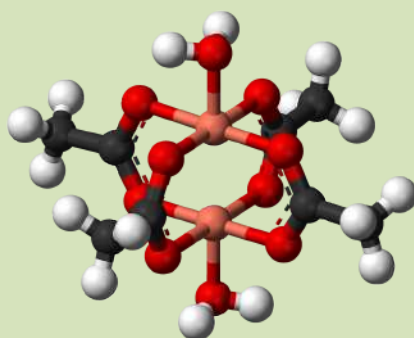


**RISHI BANKIM CHANDRA  
COLLEGE FOR WOMEN**

**DEPARTMENT OF CHEMISTRY**

**ACADEMIC CALENDAR**

**2020-2021**



# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (H)	CEMACOR01T Organic Chemistry-I	Basics of Organic Chemistry Bonding and Physical Properties	25	SD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'20</li> <li>• Puja vacation October'20-November'20</li> <li>• Semester-I Exam. – December'20</li> <li>• Winter Recess December'20</li> </ul>
		General Treatment of Reaction Mechanism I	10	SD	
		Stereochemistry I	25	SH	
	CEMACORE01P Organic Chemistry-I LAB	Organic Chemistry I (Lab)	60	SD	
	CEMACORE02T Physical Chemistry-I	Kinetic Theory and Gaseous State	20	LM	
		Chemical Thermodynamics	25	SP	
		Chemical Kinetics	15	SG	
	CEMACOR02P Physical Chemistry-I LAB	Physical Chemistry-I Lab	60	SH	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (G)	CEMGCOR01T	Section-A: Inorganic Chemistry-I	30	BC/PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'20</li> <li>• Puja vacation October-November'20</li> <li>• Semester-I Exam. – December'20</li> <li>• Winter Recess December'20</li> </ul>
	CEMGCOR01T	Section-B: Organic Chemistry-I	30	SD/SH	
	CEMGCOR01P	Section-A: Inorganic Chemistry Lab	30	PD	
		Section-B: Organic Chemistry Lab	30	SD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (Honours)	CEMACOR03T Inorganic Chemistry-I	Extra nuclear structure of atom	18	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'21</li> <li>• Summer Recess May'21-June'21</li> <li>• Semester-II Exam. – June'21</li> </ul>
		Chemical periodicity	08	BC	
		Acid-Base reaction	16	BC	
		Redox Reaction and precipitation reaction	18	PD	
	CEMACOR03P Inorganic Chemistry-I Lab	Inorganic Chemistry-I Lab	60	BC	
	CEMACOR04T Organic Chemistry-II	Stereochemistry-II	20	SD	
		General Treatment of Reaction Mechanism II	22	SD	
		Substitution and Elimination Reaction	18	SH	
	CEMACOR04P Organic Chemistry-II Lab	Organic Chemistry-II Lab	60	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (General)	CEMGCOR02T	Section-A: Physical Chemistry-I	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'21</li> <li>• Summer Recess May'21-June'21</li> <li>• Semester-II Exam. – June'21</li> </ul>
		Section-B: Inorganic Chemistry-II	30	BC/PD	
	CEMGCOR02P	Physical Chemistry-I Lab Section-A	30	SH	
		Section-B: Inorganic Chemistry-II Lab	30	PD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (Honours)	CEMACOR05T Physical Chemistry-II	Transport Process	15	SP/JS	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'20</li> <li>• Puja vacation October'20-November'20</li> <li>• Semester-III Exam. – December'20</li> <li>• Winter Recess December'20</li> </ul>
		Application of Thermodynamics- I	25	SP	
		Foundation of Quantum Mechanics	20	LM/SP	
	CEMACOR05P Physical Chemistry-II Lab	Physical Chemistry-II Lab	60	SH	
	CEMACOR06T Inorganic Chemistry-II	Chemical Bonding-I	24	BC	
		Chemical Bonding-II	24	PD/BC	
		Radioactivity	12	PD	
	CEMACOR06P Inorganic Chemistry-II Lab	Inorganic Chemistry-II Lab	60	BC/PD	
	CEMACOR07T Organic Chemistry-III	Chemistry of alkenes and alkynes	15	SD	
		Aromatic Substitution	10	SD	
		Carbonyl and Related compounds	30	SH	
		Organometallics	05	SD	
	CEMACOR07P Organic Chemistry-III Lab	Organic Chemistry-III Lab	60	SD	
CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD		

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (G)	CEMGCOR03T	Section-A: Physical Chemistry-II	30	SH	<ul style="list-style-type: none"><li>• Commencement of Semester-III classes July'20</li><li>• Puja vacation October'20-November'20</li><li>• Semester-III Exam.- December'20</li><li>• Winter Recess December'20</li></ul>
		Section-B: Organic Chemistry -II	30	SH/SG	
	CEMGCOR03P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Organic Chemistry Lab	30	SD	
	CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (General)	CEMGCOR04T	Section-A: Physical Chemistry-III	30	SH/SG	<ul style="list-style-type: none"><li>• Commencement of Semester-IV classes January'21</li><li>• Summer Recess May'21-June'21</li><li>• Semester-IV Exam.- June'21</li></ul>
		Section-B: Analytical and Environmental Chemistry	30	PD/BC	
	CEMGCOR04P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Analytical and Environmental Chemistry Lab	30	PD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (Honours)	CEMACOR08T Physical Chemistry-III	Application of Thermodynamics-II	20	LM/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'21</li> <li>• Summer Recess May'21 -June'21</li> <li>• Semester-IV Exam. - June'21</li> </ul>
		Electrical Properties of molecules	20	SP/LM	
		Quantum Chemistry	20	LM/AP	
	CEMACOR08P Physical Chemistry-III Lab	Physical Chemistry-III Lab	60	SH	
	CEMACOR09T Inorganic Chemistry-III	General Principles of Metallurgy	06	PD	
		Chemistry of s and p block elements	30	PD	
		Coordination Chemistry-I	24	BC	
	CEMACOR09P Inorganic Chemistry-III Lab	Inorganic Chemistry-III Lab	60	BC/PD	
	CEMACOR10T Organic Chemistry-IV	Nitrogen compounds	12	SH	
		Rearrangements	14	SH	
		The Logic of Organic Synthesis	14	SD	
		Organic Spectroscopy	20	SD	
	CEMACOR10P Organic Chemistry-IV Lab	Organic Chemistry-IV Lab	60	SD	
CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD		

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
5th Semester (Honours)	CEMACOR11T Inorganic Chemistry-IV	Coordination chemistry-II	36	BC	<ul style="list-style-type: none"> <li>• Commencement of Semester-V classes July '20</li> <li>• Puja vacation October '20-November '20</li> <li>• Semester-V Exam.- December '20</li> <li>• Winter Recess December '20</li> </ul>
		Chemistry of d- and f- block elements	24	PD	
	CEMACOR11P Inorganic Chemistry-IV Lab	Inorganic Chemistry-IV Lab	60	BC/PD	
	CEMACOR12T Organic Chemistry-V	Carbocycles and Heterocycles	16	SD	
		Cyclic Stereochemistry	10	SH	
		Pericyclic reactions	08	SD	
		Carbohydrates	14	SH	
		Biomolecules	12	SD	
	CEMACOR12P Organic Chemistry-V Lab	Organic Chemistry-V Lab	60	SD	
	CEMADSE01T Advanced Physical Chemistry	Crystal Structure	20	SP	
		Statistical Thermodynamics	20	AP	
		Special Selected topics	20	SP/AP	
	CEMADSE01P Advanced Physical Chemistry Lab	Advanced Physical Chemistry Lab	60	SP	
	CEMADSE02T Analytical methods in chemistry	Qualitative and quantitative aspects of analysis	05	SP	
		Optical methods of analysis	25	SP	
		Thermal methods of analysis	05	PD	
Electroanalytical methods		10	PD		
Separation techniques		15	PD		
CEMADSE02P Analytical methods in chemistry Lab	Analytical methods in chemistry Lab	60	SD/PD/BC		



# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 <sup>th</sup> Semester (G)	CEMGDSE01T	Polymer chemistry	60	SH/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-V classes July'20</li> <li>• Puja vacation October'20-November'20</li> <li>• Semester-V Exam. – December'20</li> <li>• Winter Recess December'20</li> </ul>
	CEMGDSE01P	Polymer chemistry Lab	60	SH	
	CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (General)	CEMGDSE04T	Section-A: Inorganic Chemistry – 4	30	BC/PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-VI classes January'21</li> <li>• Summer Recess May'21-June'21</li> <li>• Semester-VI Exam. – June'21</li> </ul>
		Section-B: Organic Chemistry – 4	30	SD/SH	
	CEMGDSE04P	Section-A: Inorganic Chemistry – 4 Lab	30	PD/BC	
		Section-B: Organic Chemistry – 4 Lab	30	BC	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (Honours)	CEMACOR13T Inorganic Chemistry-V	Bioinorganic chemistry	24	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-VI classes January'21</li> <li>• Summer Recess May'21-June'21</li> <li>• Semester-VI Exam.- June'21</li> </ul>
		Organometallic Chemistry	24	BC	
		Reaction Kinetics and Mechanism	12	BC	
	CEMACOR13P Inorganic Chemistry-V Lab	Inorganic Chemistry-V Lab	60	BC/PD	
	CEMACOR14T Physical Chemistry-IV	Molecular Spectroscopy	25	SP/AP	
		Photochemistry	15	SP/AP	
		Surface Phenomenon	20	SP/AP	
	CEMACOR14P Physical Chemistry-IV Lab	Physical Chemistry-IV Lab	60	SH	
	CEMADSE04T Green Chemistry	Introduction to Green Chemistry	04	SD	
		Principles of Green chemistry and designing A chemical synthesis	30	SD	
		Examples of Green Synthesis	16	SH	
		Future Trends in Green Chemistry	10	SD	
	CEMADSE04P Green Chemistry Lab	Green Chemistry Lab	60	SD	
	CEMADSE06T Polymer Chemistry	Introduction and history of polymeric materials	04	SH	
		Functionality and its importance	08	SP	
		Kinetics of polymerization; Crystallization and crystallinity	12	SH	
		Nature and structure of polymers; Determination of molecular weight of polymers	12	SP	
		Glass transition temperature (T <sub>g</sub> ) and determination of T <sub>g</sub> ;	08	SP	
		Properties of polymer; Properties of polymer	16	SP	
	CEMADSE06P Polymer Chemistry Lab	Polymer Chemistry Lab	60	SH/SP	

Department of Chemistry

Rishi Bankim Chandra College for Women

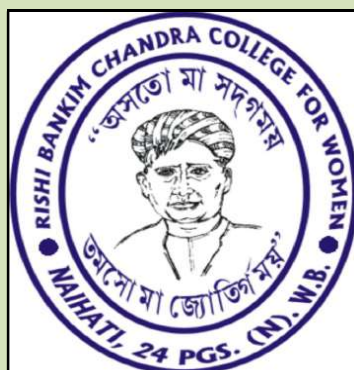
# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2020-2021



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*Department of Chemistry*  
*Rishi Bankim Chandra College for Women*

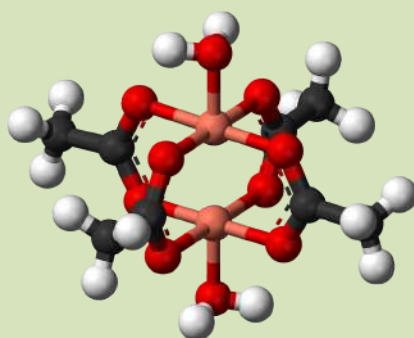


**RISHI BANKIM CHANDRA  
COLLEGE FOR WOMEN**

**DEPARTMENT OF CHEMISTRY**

**ACADEMIC CALENDAR**

**2021-2022**



# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (H)	CEMACOR01T Organic Chemistry-I	Basics of Organic Chemistry Bonding and Physical Properties	25	SD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'21</li> <li>• Puja vacation October'21</li> <li>• Semester-I Exam. – December'21</li> <li>• Winter Recess December'21</li> </ul>
		General Treatment of Reaction Mechanism I	10	SD	
		Stereochemistry I	25	SH	
	CEMACORE01P Organic Chemistry-I LAB	Organic Chemistry I (Lab)	60	SD	
	CEMACORE02T Physical Chemistry-I	Kinetic Theory and Gaseous State	20	LM	
		Chemical Thermodynamics	25	SP	
		Chemical Kinetics	15	SG	
	CEMACOR02P Physical Chemistry-I LAB	Physical Chemistry-I Lab	60	SH	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (G)	CEMGCOR01T	Section-A: Inorganic Chemistry-I	30	BC/PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'21</li> <li>• Puja vacation October'21</li> <li>• Semester-I Exam. – December'21</li> <li>• Winter Recess December'21</li> </ul>
	CEMGCOR01T	Section-B: Organic Chemistry-I	30	SD/SH	
	CEMGCOR01P	Section-A: Inorganic Chemistry Lab	30	PD	
		Section-B: Organic Chemistry Lab	30	SD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (Honours)	CEMACOR03T Inorganic Chemistry-I	Extra nuclear structure of atom	18	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'22</li> <li>• Summer Recess May'22-June'22</li> <li>• Semester-II Exam. – June'22</li> </ul>
		Chemical periodicity	08	BC	
		Acid-Base reaction	16	BC	
		Redox Reaction and precipitation reaction	18	PD	
	CEMACOR03P Inorganic Chemistry-I Lab	Inorganic Chemistry-I Lab	60	BC	
	CEMACOR04T Organic Chemistry-II	Stereochemistry-II	20	SD	
		General Treatment of Reaction Mechanism II	22	SD	
		Substitution and Elimination Reaction	18	SH	
	CEMACOR04P Organic Chemistry-II Lab	Organic Chemistry-II Lab	60	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (General)	CEMGCOR02T	Section-A: Physical Chemistry-I	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'22</li> <li>• Summer Recess May'22-June'22</li> <li>• Semester-II Exam. – June'22</li> </ul>
		Section-B: Inorganic Chemistry-II	30	BC/PD	
	CEMGCOR02P	Physical Chemistry-I Lab Section-A	30	SH	
		Section-B: Inorganic Chemistry-II Lab	30	PD	

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## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (Honours)	CEMACOR05T Physical Chemistry-II	Transport Process	15	SP/JS	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'21</li> <li>• Puja vacation October'21</li> <li>• Semester-III Exam.- December'21</li> <li>• Winter Recess December'21</li> </ul>
		Application of Thermodynamics- I	25	SP	
		Foundation of Quantum Mechanics	20	LM/SP	
	CEMACOR05P Physical Chemistry-II Lab	Physical Chemistry-II Lab	60	SH	
	CEMACOR06T Inorganic Chemistry-II	Chemical Bonding-I	24	BC	
		Chemical Bonding-II	24	PD/BC	
		Radioactivity	12	PD	
	CEMACOR06P Inorganic Chemistry-II Lab	Inorganic Chemistry-II Lab	60	BC/PD	
	CEMACOR07T Organic Chemistry-III	Chemistry of alkenes and alkynes	15	SD	
		Aromatic Substitution	10	SD	
		Carbonyl and Related compounds	30	SH	
		Organometallics	05	SD	
	CEMACOR07P Organic Chemistry-III Lab	Organic Chemistry-III Lab	60	SD	
	CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD	

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## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (G)	CEMGCOR03T	Section-A: Physical Chemistry-II	30	SH	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'21</li> <li>• Puja vacation October'21</li> <li>• Semester-III Exam.- December'21</li> <li>• Winter Recess December'21</li> </ul>
		Section-B: Organic Chemistry -II	30	SH/SG	
	CEMGCOR03P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Organic Chemistry Lab	30	SD	
	CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (General)	CEMGCOR04T	Section-A: Physical Chemistry-III	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'22</li> <li>• Summer Recess May'22-June'22</li> <li>• Semester-IV Exam.- June'22</li> </ul>
		Section-B: Analytical and Environmental Chemistry	30	PD/BC	
	CEMGCOR04P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Analytical and Environmental Chemistry Lab	30	PD	



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## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (Honours)	CEMACOR08T Physical Chemistry-III	Application of Thermodynamics-II	20	LM/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'22</li> <li>• Summer Recess May'22-June'22</li> <li>• Semester-IV Exam. - June'22</li> </ul>
		Electrical Properties of molecules	20	SP/LM	
		Quantum Chemistry	20	LM/AP	
	CEMACOR08P Physical Chemistry-III Lab	Physical Chemistry-III Lab	60	SH	
	CEMACOR09T Inorganic Chemistry-III	General Principles of Metallurgy	06	PD	
		Chemistry of s and p block elements	30	PD	
		Coordination Chemistry-I	24	BC	
	CEMACOR09P Inorganic Chemistry-III Lab	Inorganic Chemistry-III Lab	60	BC/PD	
	CEMACOR10T Organic Chemistry-IV	Nitrogen compounds	12	SH	
		Rearrangements	14	SH	
		The Logic of Organic Synthesis	14	SD	
		Organic Spectroscopy	20	SD	
	CEMACOR10P Organic Chemistry-IV Lab	Organic Chemistry-IV Lab	60	SD	
CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD		

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## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (HONOURS)

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
5th Semester (Honours)	CEMACOR11T Inorganic Chemistry-IV	Coordination chemistry-II	36	BC	<ul style="list-style-type: none"> <li>• Commencement of Semester-V classes July'21</li> <li>• Puja vacation October'21</li> <li>• Semester-V Exam.- December'21</li> <li>• Winter Recess December'21</li> </ul>
		Chemistry of d- and f- block elements	24	PD	
	CEMACOR11P Inorganic Chemistry-IV Lab	Inorganic Chemistry-IV Lab	60	BC/PD	
	CEMACOR12T Organic Chemistry-V	Carbocycles and Heterocycles	16	SD	
		Cyclic Stereochemistry	10	SH	
		Pericyclic reactions	08	SD	
		Carbohydrates	14	SH	
		Biomolecules	12	SD	
	CEMACOR12P Organic Chemistry-V Lab	Organic Chemistry-V Lab	60	SD	
	CEMADSE01T Advanced Physical Chemistry	Crystal Structure	20	SP	
		Statistical Thermodynamics	20	AP	
		Special Selected topics	20	SP/AP	
	CEMADSE01P Advanced Physical Chemistry Lab	Advanced Physical Chemistry Lab	60	SP	
	CEMADSE02T Analytical methods in chemistry	Qualitative and quantitative aspects of analysis	05	SP	
		Optical methods of analysis	25	SP	
		Thermal methods of analysis	05	PD	
		Electroanalytical methods	10	PD	
Separation techniques		15	PD		
CEMADSE02P Analytical methods in chemistry Lab	Analytical methods in chemistry Lab	60	SD/PD/BC		

Department of Chemistry

Rishi Bankim Chandra College for Women

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## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 <sup>th</sup> Semester (G)	CEMGDSE01T	Polymer chemistry	60	SH/SP	<ul style="list-style-type: none"><li>• Commencement of Semester-V classes July'21</li><li>• Puja vacation October'21</li><li>• Semester-V Exam. – December'21</li><li>• Winter Recess December'21</li></ul>
	CEMGDSE01P	Polymer chemistry Lab	60	SH	
	CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (General)	CEMGDSE04T	Section-A: Inorganic Chemistry – 4	30	BC/PD	<ul style="list-style-type: none"><li>• Commencement of Semester-VI classes January'22</li><li>• Summer Recess May'22-June'22</li><li>• Semester-VI Exam. – June'22</li></ul>
		Section-B: Organic Chemistry – 4	30	SD/SH	
	CEMGDSE04P	Section-A: Inorganic Chemistry – 4 Lab	30	PD/BC	
		Section-B: Organic Chemistry – 4 Lab	30	BC	

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## ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: CHEMISTRY (HONOURS)

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (Honours)	CEMACOR13T Inorganic Chemistry-V	Bioinorganic chemistry	24	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-VI classes January'22</li> <li>• Summer Recess May'22-June'22</li> <li>• Semester-VI Exam.- June'22</li> </ul>
		Organometallic Chemistry	24	BC	
		Reaction Kinetics and Mechanism	12	BC	
	CEMACOR13P Inorganic Chemistry-V Lab	Inorganic Chemistry-V Lab	60	BC/PD	
	CEMACOR14T Physical Chemistry-IV	Molecular Spectroscopy	25	SP/AP	
		Photochemistry	15	SP/AP	
		Surface Phenomenon	20	SP/AP	
	CEMACOR14P Physical Chemistry-IV Lab	Physical Chemistry-IV Lab	60	SH	
	CEMADSE04T Green Chemistry	Introduction to Green Chemistry	04	SD	
		Principles of Green chemistry and designing A chemical synthesis	30	SD	
		Examples of Green Synthesis	16	SH	
		Future Trends in Green Chemistry	10	SD	
	CEMADSE04P Green Chemistry Lab	Green Chemistry Lab	60	SD	
	CEMADSE06T Polymer Chemistry	Introduction and history of polymeric materials	04	SH	
		Functionality and its importance	08	SP	
		Kinetics of polymerization; Crystallization and crystallinity	12	SH	
		Nature and structure of polymers; Determination of molecular weight of polymers	12	SP	
		Glass transition temperature (T <sub>g</sub> ) and determination of T <sub>g</sub> ;	08	SP	
		Properties of polymer; Properties of polymer	16	SP	
	CEMADSE06P Polymer Chemistry Lab	Polymer Chemistry Lab	60	SH/SP	

Department of Chemistry

Rishi Bankim Chandra College for Women

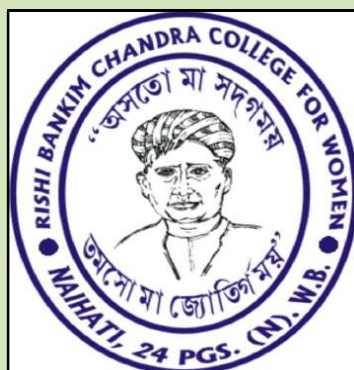
# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2021-2022



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*Department of Chemistry*  
*Rishi Bankim Chandra College for Women*

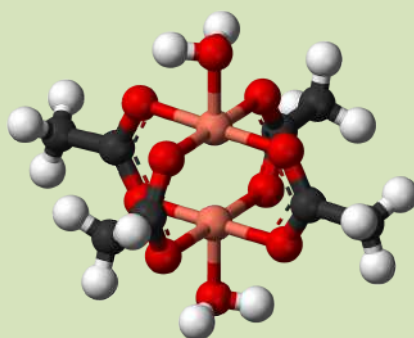


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**DEPARTMENT OF CHEMISTRY**

**ACADEMIC CALENDAR**

**2022-2023**



# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (H)	CEMACOR01T Organic Chemistry-I	Basics of Organic Chemistry Bonding and Physical Properties	25	SD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'22</li> <li>• Puja vacation October'22</li> <li>• Semester-I Exam. – December'22</li> <li>• Winter Recess December'22</li> </ul>
		General Treatment of Reaction Mechanism I	10	SD	
		Stereochemistry I	25	SH	
	CEMACORE01P Organic Chemistry-I LAB	Organic Chemistry I (Lab)	60	SD	
	CEMACORE02T Physical Chemistry-I	Kinetic Theory and Gaseous State	20	LM	
		Chemical Thermodynamics	25	SP	
		Chemical Kinetics	15	SG	
	CEMACOR02P Physical Chemistry-I LAB	Physical Chemistry-I Lab	60	SH	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (G)	CEMGCOR01T	Section-A: Inorganic Chemistry-I	30	BC/PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'22</li> <li>• Puja vacation October'22</li> <li>• Semester-I Exam. – December'22</li> <li>• Winter Recess December'22</li> </ul>
	CEMGCOR01T	Section-B: Organic Chemistry-I	30	SD/SH	
	CEMGCOR01P	Section-A: Inorganic Chemistry Lab	30	PD	
		Section-B: Organic Chemistry Lab	30	SD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: CHEMISTRY (HONOURS)

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (Honours)	CEMACOR03T Inorganic Chemistry-I	Extra nuclear structure of atom	18	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'23</li> <li>• Summer Recess May'23-June'23</li> <li>• Semester-II Exam. – June'23</li> </ul>
		Chemical periodicity	08	BC	
		Acid-Base reaction	16	BC	
		Redox Reaction and precipitation reaction	18	PD	
	CEMACOR03P Inorganic Chemistry-I Lab	Inorganic Chemistry-I Lab	60	BC	
	CEMACOR04T Organic Chemistry-II	Stereochemistry-II	20	SD	
		General Treatment of Reaction Mechanism II	22	SD	
		Substitution and Elimination Reaction	18	SH	
	CEMACOR04P Organic Chemistry-II Lab	Organic Chemistry-II Lab	60	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (General)	CEMGCOR02T	Section-A: Physical Chemistry-I	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-II classes January'23</li> <li>• Summer Recess May'23-June'23</li> <li>• Semester-II Exam. – June'23</li> </ul>
		Section-B: Inorganic Chemistry-II	30	BC/PD	
	CEMGCOR02P	Physical Chemistry-I Lab Section-A	30	SH	
		Section-B: Inorganic Chemistry-II Lab	30	PD	



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SUBJECT: CHEMISTRY (HONOURS)

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (Honours)	CEMACOR05T Physical Chemistry-II	Transport Process	15	SP/JS	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'22</li> <li>• Puja vacation October'22</li> <li>• Semester-III Exam.- December'22</li> <li>• Winter Recess December'22</li> </ul>
		Application of Thermodynamics- I	25	SP	
		Foundation of Quantum Mechanics	20	LM/SP	
	CEMACOR05P Physical Chemistry-II Lab	Physical Chemistry-II Lab	60	SH	
	CEMACOR06T Inorganic Chemistry-II	Chemical Bonding-I	24	BC	
		Chemical Bonding-II	24	PD/BC	
		Radioactivity	12	PD	
	CEMACOR06P Inorganic Chemistry-II Lab	Inorganic Chemistry-II Lab	60	BC/PD	
	CEMACOR07T Organic Chemistry-III	Chemistry of alkenes and alkynes	15	SD	
		Aromatic Substitution	10	SD	
		Carbonyl and Related compounds	30	SH	
		Organometallics	05	SD	
	CEMACOR07P Organic Chemistry-III Lab	Organic Chemistry-III Lab	60	SD	
CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD		

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: CHEMISTRY (GENERAL)

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (G)	CEMGCOR03T	Section-A: Physical Chemistry-II	30	SH	• Commencement of Semester-III classes July'22 • Puja vacation October'22 • Semester-III Exam.- December'22 • Winter Recess December'22
		Section-B: Organic Chemistry -II	30	SH/SG	
	CEMGCOR03P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Organic Chemistry Lab	30	SD	
	CEMSSEC001 Skill Enhancement Course	Basic Analytical Chemistry	30	PD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (General)	CEMGCOR04T	Section-A: Physical Chemistry-III	30	SH/SG	• Commencement of Semester-IV classes January'23 • Summer Recess May'23-June'23 • Semester-IV Exam.- June'23
		Section-B: Analytical and Environmental Chemistry	30	PD/BC	
	CEMGCOR04P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Analytical and Environmental Chemistry Lab	30	PD	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (Honours)	CEMACOR08T Physical Chemistry-III	Application of Thermodynamics-II	20	LM/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January '23</li> <li>• Summer Recess May '23-June '23</li> <li>• Semester-IV Exam. - June '23</li> </ul>
		Electrical Properties of molecules	20	SP/LM	
		Quantum Chemistry	20	LM/AP	
	CEMACOR08P Physical Chemistry-III Lab	Physical Chemistry-III Lab	60	SH	
	CEMACOR09T Inorganic Chemistry-III	General Principles of Metallurgy	06	PD	
		Chemistry of s and p block elements	30	PD	
		Coordination Chemistry-I	24	BC	
	CEMACOR09P Inorganic Chemistry-III Lab	Inorganic Chemistry-III Lab	60	BC/PD	
	CEMACOR10T Organic Chemistry-IV	Nitrogen compounds	12	SH	
		Rearrangements	14	SH	
		The Logic of Organic Synthesis	14	SD	
		Organic Spectroscopy	20	SD	
	CEMACOR10P Organic Chemistry-IV Lab	Organic Chemistry-IV Lab	60	SD	
CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD		

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## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: CHEMISTRY (HONOURS)

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
5th Semester (Honours)	CEMACOR11T Inorganic Chemistry-IV	Coordination chemistry-II	36	BC	<ul style="list-style-type: none"> <li>• Commencement of Semester-V classes July'22</li> <li>• Puja vacation October'22</li> <li>• Semester-V Exam.- December'22</li> <li>• Winter Recess December'22</li> </ul>
		Chemistry of d- and f- block elements	24	PD	
	CEMACOR11P Inorganic Chemistry-IV Lab	Inorganic Chemistry-IV Lab	60	BC/PD	
	CEMACOR12T Organic Chemistry-V	Carbocycles and Heterocycles	16	SD	
		Cyclic Stereochemistry	10	SH	
		Pericyclic reactions	08	SD	
		Carbohydrates	14	SH	
		Biomolecules	12	SD	
	CEMACOR12P Organic Chemistry-V Lab	Organic Chemistry-V Lab	60	SD	
	CEMADSE01T Advanced Physical Chemistry	Crystal Structure	20	SP	
		Statistical Thermodynamics	20	AP	
		Special Selected topics	20	SP/AP	
	CEMADSE01P Advanced Physical Chemistry Lab	Advanced Physical Chemistry Lab	60	SP	
	CEMADSE02T Analytical methods in chemistry	Qualitative and quantitative aspects of analysis	05	SP	
		Optical methods of analysis	25	SP	
		Thermal methods of analysis	05	PD	
		Electroanalytical methods	10	PD	
Separation techniques		15	PD		
CEMADSE02P Analytical methods in chemistry Lab	Analytical methods in chemistry Lab	60	SD/PD/BC		

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

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Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 <sup>th</sup> Semester (G)	CEMGDSE01T	Polymer chemistry	60	SH/SP	<ul style="list-style-type: none"><li>• Commencement of Semester-V classes July'22</li><li>• Puja vacation October'22</li><li>• Semester-V Exam. – December'22</li><li>• Winter Recess December'22</li></ul>
	CEMGDSE01P	Polymer chemistry Lab	60	SH	
	CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (General)	CEMGDSE04T	Section-A: Inorganic Chemistry – 4	30	BC/PD	<ul style="list-style-type: none"><li>• Commencement of Semester-VI classes January'23</li><li>• Summer Recess May'23-June'23</li><li>• Semester-VI Exam. – June'23</li></ul>
		Section-B: Organic Chemistry – 4	30	SD/SH	
	CEMGDSE04P	Section-A: Inorganic Chemistry – 4 Lab	30	PD/BC	
		Section-B: Organic Chemistry – 4 Lab	30	BC	

# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (Honours)	CEMACOR13T Inorganic Chemistry-V	Bioinorganic chemistry	24	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-VI classes January '23</li> <li>• Summer Recess May '23-June '23</li> <li>• Semester-VI Exam. – June '23</li> </ul>
		Organometallic Chemistry	24	BC	
		Reaction Kinetics and Mechanism	12	BC	
	CEMACOR13P Inorganic Chemistry-V Lab	Inorganic Chemistry-V Lab	60	BC/PD	
	CEMACOR14T Physical Chemistry-IV	Molecular Spectroscopy	25	SP/AP	
		Photochemistry	15	SP/AP	
		Surface Phenomenon	20	SP/AP	
	CEMACOR14P Physical Chemistry-IV Lab	Physical Chemistry-IV Lab	60	SH	
	CEMADSE04T Green Chemistry	Introduction to Green Chemistry	04	SD	
		Principles of Green chemistry and designing A chemical synthesis	30	SD	
		Examples of Green Synthesis	16	SH	
		Future Trends in Green Chemistry	10	SD	
	CEMADSE04P Green Chemistry Lab	Green Chemistry Lab	60	SD	
	CEMADSE05T Inorganic Materials of Industrial Importance	Silicate Industries	16	BC	
		Fertilizers	08	BC	
		Surface Coatings	10	PD	
		Batteries	06	PD	
		Alloys	10	BC	
		Catalysis	06	PD	
	Chemical explosives	04	BC		
	CEMADSE05P Inorganic Materials of Industrial Importance Lab	Inorganic Materials of Industrial Importance Lab	60	PD/BC	

Department of Chemistry

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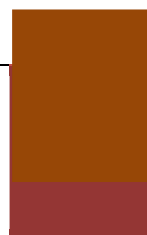
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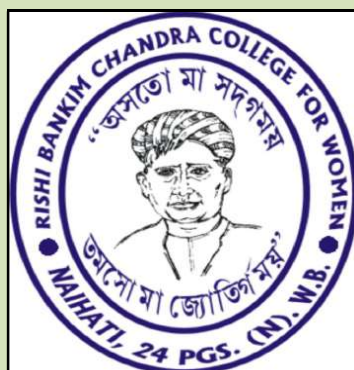
## ACADEMIC CALENDAR FOR THE YEAR 2022-2023



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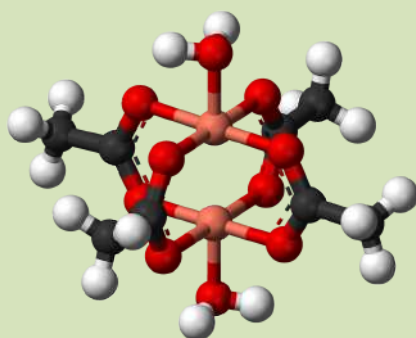


**RISHI BANKIM CHANDRA  
COLLEGE FOR WOMEN**

**DEPARTMENT OF CHEMISTRY**

**ACADEMIC CALENDAR**

**2023-2024**





# R.B.C. COLLEGE FOR WOMEN

## ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (H)	CEMDSC101T	Unit 1: Atomic Structure and Radioactivity Bonding	15	BC	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'23</li> <li>• Puja vacation October'23–November'23</li> <li>• Semester-I Exam.– December'23</li> <li>• Winter Recess December'23</li> </ul>
		Unit 2: Basics of Organic Chemistry	15	SD/SH	
		Unit 3: Kinetic Theory and Gas	15	SP	
	CEMDSC101P Chemistry LAB	Chemistry Practical	60	SD/BC/ PD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 <sup>st</sup> Semester (G)	CEMMIN101T/ CEMCOR101T	Unit 1: Inorganic Chemistry	15	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-I classes July'23</li> <li>• Puja vacation October'23–November'23</li> <li>• Semester-I Exam.– December'23</li> <li>• Winter Recess December'23</li> </ul>
		Unit 2: Organic Chemistry	15	SD	
		Unit 3: Physical Chemistry	15	SP	
	CEMMIN101P/ CEMCOR101P	Chemistry Practical	60	BC/PD/ SH	

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## ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (H)	CEMDSC202T	Unit 1: Acid-Base Reactions	15	BC	<ul style="list-style-type: none"><li>• Commencement of Semester-II classes January'24</li><li>• Summer Recess May'24-June'24</li><li>• Semester-II Exam. – June'24</li></ul>
		Unit 2: Stereochemistry	15	SD/SH	
		Unit 3: Chemical Kinetics	15	SP	
	CEMDSC202P Chemistry LAB	Chemistry Practical	60	SD/BC/ PD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
2 <sup>nd</sup> Semester (G)	CEMMIN202T/ CEMCOR202T	Unit 1: Inorganic Chemistry	15	PD	<ul style="list-style-type: none"><li>• Commencement of Semester-II classes January'24</li><li>• Summer Recess May'24-June'24</li><li>• Semester-II Exam. – June'24</li></ul>
		Unit 2: Organic Chemistry	15	SD	
		Unit 3: Physical Chemistry	15	SP	
	CEMMIN202P/ CEMCOR202P	Chemistry Practical	60	BC/PD/ SH	

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SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks	
<b>3<sup>rd</sup> Semester (Honours)</b>	CEMACOR05T Physical Chemistry-II	Transport Process	15	SP/JS	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'23</li> <li>• Puja vacation October'23-November'23</li> <li>• Semester-III Exam.- December'23</li> <li>• Winter Recess December'23</li> </ul>	
		Application of Thermodynamics- I	25	SP		
		Foundation of Quantum Mechanics	20	LM/SP		
	CEMACOR05P Physical Chemistry-II Lab	Physical Chemistry-II Lab	60	SH		
	CEMACOR06T Inorganic Chemistry-II	<b>Credits: Theory-04, Practical-02</b>	Chemical Bonding-I	24		BC
			Chemical Bonding-II	24		PD/BC
			Radioactivity	12		PD
	CEMACOR06P Inorganic Chemistry-II Lab	Inorganic Chemistry-II Lab	60	BC/PD		
	CEMACOR07T Organic Chemistry-III	<b>Credits: Theory-04, Practical-02</b>	Chemistry of alkenes and alkynes	15		SD
			Aromatic Substitution	10		SD
			Carbonyl and Related compounds	30		SH
			Organometallics	05		SD
			Organic Chemistry-III Lab	60		SD
	CEMACOR07P Organic Chemistry-III Lab	Organic Chemistry-III Lab	60	SD		
	CEMSSEC001 Skill Enhancement Course	<b>Credits: 02</b>	Basic Analytical Chemistry	30		PD

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## ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 <sup>rd</sup> Semester (G)	CEMGCOR03T	Section-A: Physical Chemistry-II	30	SH	<ul style="list-style-type: none"> <li>• Commencement of Semester-III classes July'23</li> <li>• Puja vacation October'23 – November'23</li> <li>• Semester-III Exam.– December'23</li> <li>• Winter Recess December'23</li> </ul>
		Section-B: Organic Chemistry -II	30	SH/SG	
		Section-A: Physical Chemistry Lab	30	SH	
	CEMGCOR03P	Section-B: Organic Chemistry Lab	30	SD	
	CEMSSEC001 Skill Enhancement Course	Credits: Theory-04, Practical-02	Basic Analytical Chemistry	30	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 <sup>th</sup> Semester (General)	CEMGCOR04T	Section-A: Physical Chemistry-III	30	SH/SG	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'24</li> <li>• Summer Recess May'24-June'24</li> <li>• Semester-IV Exam.– June'24</li> </ul>
		Section-B: Analytical and Environmental Chemistry	30	PD/BC	
	CEMGCOR04P	Section-A: Physical Chemistry Lab	30	SH	
		Section-B: Analytical and Environmental Chemistry Lab	30	PD	

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SUBJECT: CHEMISTRY (HONOURS)

SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks	
4 <sup>th</sup> Semester (Honours)	CEMACOR08T Physical Chemistry-III	Application of Thermodynamics-II	20	LM/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-IV classes January'24</li> <li>• Summer Recess May'24-June'24</li> <li>• Semester-IV Exam.- June'24</li> </ul>	
		Electrical Properties of molecules	20	SP/LM		
		Quantum Chemistry	20	LM/AP		
	CEMACOR08P Physical Chemistry-III Lab	Physical Chemistry-III Lab	60	SH		
	CEMACOR09T Inorganic Chemistry-III	Credits: Theory-04, Practical-02	General Principles of Metallurgy	06		PD
			Chemistry of s and p block elements	30		PD
			Coordination Chemistry-I	24		BC
		CEMACOR09P Inorganic Chemistry-III Lab	Inorganic Chemistry-III Lab	60		BC/PD
	CEMACOR10T Organic Chemistry-IV	Credits: Theory-04, Practical-02	Nitrogen compounds	12		SH
			Rearrangements	14		SH
			The Logic of Organic Synthesis	14		SD
			Organic Spectroscopy	20		SD
			CEMACOR10P Organic Chemistry-IV Lab	Organic Chemistry-IV Lab		60
	CEMSSEC002 Skill Enhancement Course	Credits: 02	Analytical Clinical Biochemistry	30		SD

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SUBJECT: CHEMISTRY (HONOURS)

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Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks	
5th Semester (Honours)	CEMACOR11T Inorganic Chemistry-IV	Coordination chemistry-II	36	BC	<ul style="list-style-type: none"> <li>• Commencement of Semester-V classes July'23</li> <li>• Puja vacation October'23 –November'23</li> <li>• Semester-V Exam. – December'23</li> <li>• Winter Recess December'23</li> </ul>	
		Chemistry of d- and f- block elements	24	PD		
		CEMACOR11P Inorganic Chemistry-IV Lab	Inorganic Chemistry-IV Lab	60		BC/PD
	CEMACOR12T Organic Chemistry-V	Credits: Theory-04, Practical-02	Carbocycles and Heterocycles	16		SD
			Cyclic Stereochemistry	10		SH
			Pericyclic reactions	08		SD
			Carbohydrates	14		SH
			Biomolecules	12		SD
	CEMACOR12P Organic Chemistry-V Lab	Organic Chemistry-V Lab	60	SD		
	CEMADSE01T Advanced Physical Chemistry	Credits: Theory-04, Practical-02	Crystal Structure	20		SP
			Statistical Thermodynamics	20		AP
			Special Selected topics	20		SP/AP
	CEMADSE01P Advanced Physical Chemistry Lab	Advanced Physical Chemistry Lab	60	SP		
	CEMADSE02T Analytical methods in chemistry	Credits: Theory-04, Practical-02	Qualitative and quantitative aspects of analysis	05		SP
			Optical methods of analysis	25		SP
			Thermal methods of analysis	05		PD
			Electroanalytical methods	10		PD
			Separation techniques	15		PD
CEMADSE02P Analytical methods in chemistry Lab	Analytical methods in chemistry Lab	60	SD/PD/BC			

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SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 <sup>th</sup> Semester (G)	CEMGDSE01T	Polymer chemistry	60	SH/SP	<ul style="list-style-type: none"> <li>• Commencement of Semester-V classes July'23</li> <li>• Puja vacation October'23 – November'23</li> <li>• Semester-V Exam. – December'23</li> <li>• Winter Recess December'23</li> </ul>
	CEMGDSE01P				
	CEMSSEC002 Skill Enhancement Course	Analytical Clinical Biochemistry	30	SD	

SUBJECT: CHEMISTRY (GENERAL)

SUBJECT CODE: CEMG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 <sup>th</sup> Semester (General)	CEMGDSE04T	Section-A: Inorganic Chemistry – 4	30	BC/PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-VI classes January'24</li> <li>• Summer Recess May'24-June'24</li> <li>• Semester-VI Exam. – June'24</li> </ul>
		Section-B: Organic Chemistry – 4	30	SD/SH	
	CEMGDSE04P	Section-A: Inorganic Chemistry – 4 Lab	30	PD/BC	
		Section-B: Organic Chemistry – 4 Lab	30	BC	

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SUBJECT CODE: CEMA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks	
6 <sup>th</sup> Semester (Honours)	CEMACOR13T Inorganic Chemistry-V	Bioinorganic chemistry	24	PD	<ul style="list-style-type: none"> <li>• Commencement of Semester-VI classes January'24</li> <li>• Summer Recess May'24-June'24</li> <li>• Semester-VI Exam. – June'24</li> </ul>	
		Organometallic Chemistry	24	BC		
		Reaction Kinetics and Mechanism	12	BC		
	CEMACOR13P Inorganic Chemistry-V Lab	Inorganic Chemistry-V Lab	60	BC/PD		
	CEMACOR14T Physical Chemistry-IV	Molecular Spectroscopy	25	SP/AP		
		Photochemistry	15	SP/AP		
		Surface Phenomenon	20	SP/AP		
	CEMACOR14P Physical Chemistry-IV Lab	Physical Chemistry-IV Lab	60	SH		
	CEMADSE04T Green Chemistry	Credits: Theory-04, Practical-02	Introduction to Green Chemistry	04		SD
			Principles of Green chemistry and designing A chemical synthesis	30		SD
			Examples of Green Synthesis	16		SH
			Future Trends in Green Chemistry	10		SD
		CEMADSE04P Green Chemistry Lab	Green Chemistry Lab	60		SD
	CEMADSE05T Inorganic Materials of Industrial Importance	Credits: Theory-04, Practical-02	Silicate Industries	16		BC
			Fertilizers	08		BC
			Surface Coatings	10		PD
			Batteries	06		PD
Alloys			10	BC		
Catalysis			06	PD		
CEMADSE05P Inorganic Materials of Industrial Importance Lab	Inorganic Materials of Industrial Importance Lab	60	PD/BC			

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