

# Course Structure for P.G. Programme in Chemistry as per CBCS w.e.f. 2018

## SEMESTER-I

### 1. Core Courses (CR):

Course No.	Title	Contact hours/Week	No. of Credits
CH18101CR	Inorganic Chemistry	(03L + 01T)	04
CH18102CR	Organic Chemistry	(03L + 01T )	04
CH18103CR	Physical Chemistry	(03L + 01T )	04
CH18104CR	Environmental Chemistry & Analytical Monitoring.	(01L + 01T)	02

### 2. Discipline Centric Electives (DCE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18105DCE	Laboratory Course in Inorganic Chemistry	04 Lab Sessions of 03 hours each	04
CH18106DCE	Symmetry & Group Theory	(01L + 01T)	02
CH18107DCE	IR, Raman & Electronic Spectroscopy	(01L + 01T)	02

### 3. Generic Electives (GE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18001GE	Surfactants and their Applications	(01L + 01T)	02

### 4. Open Elective Courses (OE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18001OE	Chemistry in Everyday Life	(01L + 01T)	02

## SEMESTER-II

### 1. Core Courses (CR):

Course No.	Title	Contact hours/Week	No. of Credits
CH18201CR	Inorganic Chemistry	(03L + 01T)	04
CH18202CR	Organic Chemistry	(03L + 01T )	04
CH18203CR	Physical Chemistry	(03L + 01T )	04
CH18204CR	Green Chemistry	(01L + 01T)	02

### 2. Discipline Centric Elective (DCE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18205DCE	Laboratory Course in Organic Chemistry	04 Lab Sessions of 03 hours each	04
CH18206DCE	NMR & ESR Spectroscopy	(01L + 01T)	02
CH18207DCE	Solid State Chemistry	(01L + 01T)	02

### 3. Generic Elective Courses (GE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18002GE	Metal Ions in Living Systems	(01L + 01T)	02

### 4. Open Elective Course (OE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18002OE	Chemistry of Bio-molecules	(01L + 01T)	02

## SEMESTER-III

### 1. Core Courses (CR):

Course No.	Title	Contact hours/Week	No. of Credits
CH18301CR	Selected Topics in Inorganic Chemistry	(03L + 01T)	04
CH18302CR	Organic Chemistry (Spectroscopy & Photochemistry)	(03L + 01T )	04
CH18303CR	Physical Chemistry	(03L + 01T )	04
CH18304CR	Non-Equilibrium Thermodynamics	(01L + 01T )	02

### 2. Discipline Centric Elective (DCE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18305DCE	Laboratory Course in Physical Chemistry	04 Lab Sessions of 03 hours each	04
CH18306DCE	Chromatographic Techniques	(01L + 01T)	02
CH18307DCE	Bio-Physical Chemistry	(01L + 01T)	02

### 3. Generic Elective (GE):-

Course No.	Title	Contact hours/Week	No. of Credits
CH18003GE	Bio-Organic Chemistry	(01L + 01T)	02

### 4. Open Elective Course (OE):

Course No.	Title	Contact hours/Week	No. of Credits
CH18003OE	Philosophy of Science	(01L + 01T)	02