

1st SEMESTER TEACHING PLAN
Department of Chemistry
SBMS College, Sualkuchi
Session: 2018-2019

Subject: Chemistry (Major)

Paper : M-101(Physical Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
1.1	Chemical Thermodynamics Part-I	20	Kangkan K Barua	30	Aug and Sept	02/08 to 15/09/2018
1.2	Chemical Thermodynamics Part II	20	Kangkan K Barua	20	Sept-Oct	16/09 to 15/10/2018
1.3	Chemical Kinetics.	20	Kangkan K Barua	20	Oct-Nov	16/10 to 15/11/2018

Paper : M-102 Organic Chemistry

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
1.4	Introduction to Organic Compounds	15	Dr. Pulin Ch. Sarma	15	Aug	02/08 to 25/08/2018
1.5	Stereoisomerism	20	Dr. Pulin Ch. Sarma	20	Aug - Sept	26/08 to 25/09/2018
1.6	Organic Reaction Mechanism I	25	Dr. Pulin Ch. Sarma	30	Sept- Nov	26/09 to 10/11/2018

Subject : Chemistry (General)

Paper : E-101 (General Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
1.1	Structure of matter	20	Dr. Pulin Ch Sarma	20	Aug	02/08 to 31/08/2018
1.2	Covalent bonding	15	Kangkan K Barua	15	Sept	01/09 to 20/09/2018
1.3	Ionic bonding and intermolecular forces	13	Kangkan K Barua	10	Sept -Oct	21/09 to 07/10/2018
1.4	States of matter	22	Dr. Pulin Ch Sarma	20	Oct-Nov	08/10 to 10/11/2018

2nd SEMESTER TEACHING PLAN

Department of Chemistry

SBMS College, Sualkuchi

Session: 2018-2019

Subject: Chemistry (Major)

Paper : M-201 (Physical Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
2.1	Gaseous State	20	Kangkan K Barua	20	Jan -Feb	18/01 to 22/02/2019
2.2	Liquid State	10	Kangkan K Barua	12	Feb-Mar	23/02 to 10/03/2019
2.3	Colligative Properties	10	Kangkan K Barua	13	March	11/03 to 31/03/2019
2.4	Electrochemistry	20	Kangkan K Barua	25	Apr	01/04 to 30/04/2019

Paper : M-202 (Organic Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
2.5	Stereoisomerism	10	Dr. Pulin Ch Sarma	12	Jan	18/01 to 10/02/2019
2.6	Reaction Mechanism 2	15	Dr. Pulin Ch Sarma	18	Feb	11/02 to 10/03/2019
2.7	Organic Compounds	35	Dr. Pulin Ch Sarma	35	March-Apr	11/03 to 30/04/2019

Subject : Chemistry (General)

Paper : E-201

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
2.1	Hydrocarbons I	20	Dr. Pulin Ch Sarma	25	Jan-Feb	18/01 to 25/02/2019
2.2	Hydrocarbons II	20	Dr. Pulin Ch Sarma	20	Feb-Mar	26/02 to 25/03/2019
2.3	Hydrocarbons III	20	Dr. Pulin Ch Sarma	20	March	26/03 to 30/04/2019

3rd SEMESTER TEACHING PLAN

Department of Chemistry

SBMS College, Sualkuchi

Session: 2018-2019

Subject: Chemistry (Major)

Paper : M-301 (Structure and Bonding)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
3.1	Atomic Structure	40	Bhabesh Ch. Deka	45	Aug and Sept	02/08 to 30/09/2018
3.2	Chemical Bonding I	20	Bhabesh Ch. Deka	20	Oct and Nov	01/10 to 10/11/2018

Paper : M-302 (Organic Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
3.3	Chemical Bonding II	20	Bhabesh Ch. Deka	25	Aug-Sept	02/08 to 10/09/2018
3.4	Chemical Bonding III	20	Bhabesh Ch. Deka	20	Sept- Oct	11/09 to 10/10/2018
3.5	Ionic Bonds and Solids	20	Bhabesh Ch. Deka	20	Oct - Nov	11/10 to 15/11/2018

Subject : Chemistry (General)

Paper : E-301 (General Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
3.1	Chemistry of non-transition elements I	10	Kangkan K Barua	10	Aug	02/08 to 17/09/2018
3.2	Chemistry of non-transition elements II	15	Dr Pulin Ch Sarma	15	Aug-Sept	18/08 to 10/09/2018
3.3	Transition elements	15	Kangkan K Barua	20	Sept-Oct	11/09 to 15/10/2018
3.4	Electrochemistry	20	Kangkan K Barua	25	Oct-Nov	16/10 to 15/11/2018

4th SEMESTER TEACHING PLAN

Department of Chemistry

SBMS College, Sualkuchi

Session: 2018-2019

Subject: Chemistry (Major)

Paper : M-401 (Inorganic Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes	Month	Date
4.1	Properties of Inorganic Compounds	25	Bhabesh Ch. Deka	30	Jan-Feb	18/01 to 05/03/2019
4.2	Chemistry of Non-transition Elements I	25	Bhabesh Ch. Deka	20	March	06/03 to 05/04/2019
4.3	Chemistry of Non-transition Elements II	15	Bhabesh Ch. Deka	10	April	06/04 to 30/04/2019

Paper : M-402 (Inorganic Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	Classes planned	Month	Date
4.4	Chemistry of Non-transition Elements (III)	10	Bhabesh Ch. Deka	10	Jan	18/01 to 05/02/2019
4.5	Chemistry of Metals	25	Bhabesh Ch. Deka	30	Feb-Mar	06/02 to 16/03/2019
4.6	Transition Metals	25	Bhabesh Ch. Deka	30	Mar-Apr	17/03 to 30/04/2019

Subject : Chemistry (General)

Paper : E-401

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes	Month	Date
4.1	Aliphatic and aromatic hydroxyl compounds and ethers	10	Dr. Pulin Ch Sarma	10	Jan	18/01 to 05/02/2019
4.2	Aliphatic amines and aniline	8	Dr. Pulin Ch Sarma	5	Feb	06/02 to 14/02/2019
4.3	Aliphatic and aromatic carbonyl compounds	10	Dr. Pulin Ch Sarma	10	Feb	15/02 to 28/02/2019
4.4	Aliphatic / aromatic carboxylic acids	9	Kangkan K Barua	15	Mar	01/03 to 20/03/2019
4.5	Chemical kinetics and surface chemistry	13	Kangkan K Barua	15	Mar-Apr	21/03 to 10/04/2019
4.6	Ionic equilibrium	10	K K Barua	15	Apr	11/04 to 30/04/2019

5th SEMESTER TEACHING PLAN
Department of Chemistry
SBMS College, Sualkuchi
Session: 2018-2019

Subject: Chemistry (Major)

Paper : M-501 (Quantum Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
5.1	Quantum Theory	30	Bhabesh Ch. Deka	30	Aug-Sept	02/08 to 14/09/2018
5.2	Atomic Structure	20	Bhabesh Ch. Deka	25		15/09 to 22/10/2018
5.3	The Nature of Chemical Bond	15	Bhabesh Ch. Deka	15		23/10 to 15/11/2018

Paper : M-502 (Physical Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
5.4	Molecular Reaction Dynamics	15	Kangkan K Barua	20	Aug	02/08 to 31/08/2018
5.5	Photochemistry	15	Kangkan K Barua	20	Sept	01/09 to 30/09/2018
5.6	Phase	20	Kangkan K Barua	20	Oct	01/10 to 31/10/2018
5.7	Surface Chemistry	10	Kangkan K Barua	10	Oct	01/11 to 15/11/2018

Paper : M-503 (Inorganic Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
5.8	Organic Reaction Mechanisms	30	Dr. Pulin Ch. Sarma	35	Aug-Sept	02/08 to 15/09/2018
5.9	Polynuclear Aromatics, Nitro and amino comp, Organo S and organo P Compounds, Active methylene compounds and Heterocyclic compounds	30	Dr. Pulin Ch. Sarma	35	Sept-Oct	16/09 to 15/11/2018

Paper : M-504 (Inorganic Chemistry)**Full Marks : 60**

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
5.10	Bonding in Coordination Compounds	25	Bhabesh Ch. Deka	30	Aug and Sept	02/08 to 14/09/2018
5.11	Organometallic Compounds	25	Bhabesh Ch. Deka	30	Sept and Oct	15/09 to 31/10/2018
5.12	Bioinorganic Chemistry I	10	Bhabesh Ch. Deka	10	Nov	01/11 to 15/11/2018

Subject: Chemistry (General)**Paper: E-501****Full Marks: 80**

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
5.1	Chemistry of materials	15	Kangkan K Barua	15	Aug	02/08 to 23/08/2018
5.2	Principles of chemical analysis	15	Kangkan K Barua	15	Sept	24/08 to 15/09/2018
5.3	Principles and applications of spectroscopy-1	20	Dr Pulin Ch Sarma	15	Nov	16/09 to 05/10/2018
5.4	Unit 5.4 Principles and applications of spectroscopy-2	15	Dr Pulin Ch Sarma	15		06/10 to 27/10/2018
5.5	Nuclear chemistry	15	Kangkan K Barua	15		28/10 to 15/11/2018

6th SEMESTER TEACHING PLAN
Department of Chemistry
SBMS College, Sualkuchi
Session: 2018-2019

Subject: Chemistry (Major)

Paper: M-601 (Spectroscopy)

Full Marks: 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
6.1	Introduction to Spectroscopy	10	Dr. Bhabesh Ch. Deka	10	Jan	18/01 to 07/02/2019
6.2	Rotational, Vibrational and Raman Spectroscopy	20	Dr. Bhabesh Ch Deka	25	Feb-Mar	08/02 to 14/03/2019
6.3	Electronic spectroscopy	10	Dr. Bhabesh Ch Deka	13	Mar-Apr	15/03 to 03/04/2019
6.4	Spin resonance spectroscopy	10	Kangkan K Barua	12	Jan-Feb	04/04 to 20/04/2019
6.5	Mass spectroscopy	10	Dr. Pulin Ch Sarma	10	Feb-Mar	21/04 to 30/04/2019

Paper : M-602 (Physical Chemistry)

Full Marks : 60

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
6.6	Solid State	20	Kangkan K Barua	20	Jan-Feb	18/01 to 18/02/2019
6.7	<u>Macromolecules and Colloids</u>	15	Kangkan K Barua	20	Feb-Mar	19/02 to 18/03/2019
6.8	<u>Statistical Thermodynamics</u>	20	Kangkan K Barua	20	Mar-Apr	19/03 to 23/04/2019
6.9	<u>Data Analysis</u>	5	Kangkan K Barua	5	Apr	24/04 to 30/04/2019

Paper: M-603 (Organic Chemistry)**Full Marks: 60**

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
6.8	Organic Photochemistry, Polymers and Fibres	20	Dr. Pulin Ch. Sarma	30	Jan-Feb	18/01 to 18/02/2019
6.9	Biochemistry	20	Dr. Pulin Ch. Sarma	20	Feb-Mar	19/02 to 18/03/2019
6.10	Natural Products and Medicinal Chemistry	20	Dr. Pulin Ch. Sarma	20	Mar-Apr	19/03 to 30/04/2019

Paper: M-604 (Inorganic Chemistry)**Full Marks : 60**

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
6.10	Spectra of coordination compounds	25	Bhabesh Ch. Deka	30	Jan-Feb	18/01 to 28/02/2019
6.11	Bioinorganic Chemistry II	15	Bhabesh Ch. Deka	10	Mar	01/03 to 13/03/2019
6.12	Nuclear Chemistry, Lanthanides and Actinides	25	Bhabesh Ch. Deka	30	Mar-Apr	14/03 to 30/04/2019

Subject: Chemistry (General)**Paper: E-601****Full Marks: 60**

Unit	Course Title	Marks	Allotted to	No. of Classes planned	Month	Date
6.1	Industrial Chemistry – Inorganic Polymers	20		20	Jan-Feb	18/01 to 28/02/2019
6.2	Industrial Chemistry- Organic Polymers	20	Dr Pulin Ch Sarma	20	Mar	01/03 to 25/03/2019
6.3	Environmental Chemistry	20	Bhabesh Ch Deka	30	Jan-Apr	25/03 to 30/04/2019