TABLE 2: COURSE DISTRIBUTION PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total hours/ Academic semester	Number of ECTS
1st Semester								
1.	Compulsory	Introductory Mathematics I	MAS 018	3	2x1.5+1x1 hours	13	52	5
2.	Compulsory	Physics for Chemists	PHY 102	3	2x1.5+1x1 hours	13	52	6
3.	Compulsory	General Chemistry Laboratory	CHE 120	2	1x5+1x1 hours	13	78	7
4.	Compulsory	Chemical Equilibria and Classical Methods of Analysis	CHE 111	3	2x1.5+1x1 hours	13	52	6
5.	Compulsory	Introductory Chemistry (for Chemists)	CHE 121	3	2x1.5+1x1 hours	13	52	6

2nd Semester								
1.	Compulsory	Programming Methods for Problem Solving	CS 032	3	2x1.5+1x1.5 hours	13	58.5	6
2.	Compulsory	Introductory Mathematics II	MAS 020	3	2x1.5+1x1 hours	13	52	5
3.	Compulsory	Inorganic Chemistry I	CHE 122	3	2x1.5+1x1 hours	13	52	6
4.	Compulsory	Organic Chemistry I	CHE 131	3	2x1.5+ 1x1 hours	13	52	6
5.	Compulsory	Classical Methods of Chemical Analysis Laboratory	CHE 110	1	1x5 hours	13	65	7
3rd Semester								
1.	Compulsory	Physical Chemistry Laboratory I	CHE 140	1	1x5 hours	13	65	7
2.	Compulsory	Physical Chemistry I	CHE 141	3	2x1.5+1x1 hours	13	52	6
3.	Compulsory	Organic Chemistry Laboratory I	CHE 130	2	1x5+1x1 hours	13	78	7
4.	Compulsory	Quantum Chemistry	CHE 241	3	2x1.5+1x1 hours	13	52	6
5.	Constrained Elective	Language I	LAN XXX	2	2x1.5 hours	13	39	5

4th Semester								
1.	Compulsory	Inorganic Chemistry II	CHE 221	3	2x1.5+1x1 hours	13	52	6
2.	Compulsory	Biochemistry	CHE 431	3	2x1.5+1x1 hours	13	52	6
3.	Compulsory	Organic Chemistry II	CHE 231	3	2x1.5+1x1 hours	13	52	6
4.	Compulsory	Physical Chemistry II	CHE 242	3	2x1.5+1x1.5 hours	13	58.5	6
5.	Constrained Elective	Language II	LAN XXX	2	2x1.5 hours	13	39	5
5th Semester								
1.	Compulsory	Instrumental Methods of Chemical Analysis	CHE 311	3	2x1.5+1x1 hours	13	52	6
2.	Compulsory	Organic Chemistry III	CHE 331	3	2x1.5+1x1 hours	13	52	6
3.	Compulsory	Physical Chemistry Laboratory II	CHE 340	1	1x5 hours	13	65	7
4.	Compulsory	Physical Chemistry III	CHE 341	3	2x1.5+1x1 hours	13	52	6
5.	Compulsory	Bioorganic Chemistry	CHE 332	2	2x2 hours	13	52	5

6th Semester								
1.	Compulsory	Instrumental Methods of Chemical Analysis Laboratory	CHE 210	1	1x5 hours	13	65	6
2.	Compulsory	Inorganic Chemistry Laboratory	CHE 320	1	1x5 hours	13	65	6
3.	Compulsory	Inorganic Chemistry III	CHE 321	3	2x1.5+1x1 hours	13	52	6
4.	Compulsory	Organic Chemistry Laboratory II	CHE 230	1	1x5 hours	13	65	7
5.	Free Elective	Free Elective Course I	XXX XXX	2	2x1.5 hours	13	39	5
7th Semester								
1.	Compulsory	Undergraduate Diploma Thesis I	CHE 401	N/A	N/A	13	N/A	5
2.	Compulsory	Chemical Technology	CHE 441	3	2x1.5+1x1 hours	13	52	5
3.	Compulsory	Food Chemistry	CHE 411	3	2x1.5+1x1 hours	13	52	5
4.	Constrained Elective	Chem Elective Course I (from a list of 8 theoretical courses)	CHE 4XX	3	2x1.5+1x1 hours	13	52	5

5.	Constrained Elective	Chem Elective Course II (from a list of 8 theoretical courses)	CHE 4XX	3	2x1.5+1x1 hours	13	52	5
6.	Free Elective	Free Elective Course II	XXX XXX	2	2x1.5 hours	13	39	5
8th Semester								
1.	Compulsory	Undergraduate Diploma Thesis	CHE 402	N/A	N/A	13	N/A	5
2.	Constrained Elective	Laboratory Elective Course (from a list of 2 laboratory elective courses)	CHE 4XX	1	1x5 hours	13	65	5
3.	Compulsory	Organometallic Chemistry	CHE 421	3	2x1.5+1x1 hours	13	52	5
4.	Constrained Elective	Chem Elective Course III (from a list of 8 theoretical courses)	CHE 4XX	3	2x1.5+1x1 hours	13	52	5
5.	Constrained Elective	Chem Elective Course IV (from a list of 8 theoretical courses)	CHE 4XX	3	2x1.5+1x1 hours	13	52	5
6.	Free Elective	Free Elective Course III	XXX XXX	2	2x1.5 hours	13	39	5