Structure of T. Y. B. Sc. Chemistry

(According to CBCS – 2019 Pattern of SPPU)

Semester	DSEC/SEC	Nature	Paper Code	Code and Title	Credits/Lecture
		Theory	CH-501	Physical Chemistry-I	Credit-2, 36 L
	DSEC-I	Theory	CH-502	Analytical Chemistry-I	Credit-2, 36 L
		Practical	CH-503	Physical Chemistry Practical-I	Credit-2, 73 L
		Theory	CH-504	Inorganic Chemistry-I	Credit-2, 36 L
	DSEC-II	Theory	CH-505	Industrial Chemistry	Credit-2, 36 L
		Practical	CH-506	Inorganic Chemistry Practical-I	Credit-2, 73 L
V		Theory	CH-507	Organic Chemistry-I	Credit-2, 36 L
	DSEC-III	Theory	CH-508	Chemistry of Biomolecules	Credit-2, 36 L
		Practical	CH-509	Organic Chemistry Practical-I	Credit-2, 73 L
	SEC- I	Theory	CH-510	**(A)** Introduction of Medicinal Chemistry **OR** **(B)** Polymer Chemistry	Credit-2, 36 L
	SEC- II	Theory	CH-511	**(A)** Environmental Chemistry **OR** **(B)** Chemo informatics	Credit-2, 36 L
		Theory	CH-601	Physical Chemistry-II	Credit-2, 36 L
	DSEC-IV	Theory	CH-602	Physical Chemistry -III	Credit-2, 36 L
		Practical	CH-603	Physical Chemistry Practical-II	Credit-2, 73 L
		Theory	CH-604	Inorganic Chemistry-II	Credit-2, 36 L
	DSEC-V	Theory	CH-605	Inorganic Chemistry-III	Credit-2, 36 L
		Practical	CH-606	Inorganic Chemistry Practical-II	Credit-2, 73 L
		Theory	CH-607	Organic Chemistry-II	Credit-2, 36 L
VI	**DSEC-VI**	Theory	CH-608	Organic Chemistry-III	Credit-2, 36 L
		Practical	CH-609	Organic Chemistry Practical-II	Credit-2, 73 L
	SEC III	Theory	CH-610	**(A)** Chemistry of Soil and Agrochemicals **OR** **(B)** Introduction of Forensic Chemistry	Credit-2, 36 L
	SEC IV	Theory	CH-611	**(A)** Analytical Chemistry-II **OR** **(B)** Chemistry of Cosmetics and Perfumes	Credit-2, 36 L

Important points:

i. Each credit is equivalent to 18 lectures of 50 minutes for theory courses and 36 lecture of50 minutes for practical courses.
ii. There will be12 practical sessions per semester of 4 hours 20 minutes each.
iii. Total weeks for teaching and internal evaluation are15. Out of the 15 weeks, 12 weeksfor teaching and 03 weeks for internal evaluation. (Theory as well as Practical).
iv. For more details refer to UG rules and regulations (CBCS for Science program underScience & Technology) on SPPU website.

Evaluation Pattern (As per CBCS rules, SPPU, 2019 Pattern)

1. Each theory and practical course carry 50 marks equivalent to 2 credits.
2. Each course will be evaluated with Continuous Internal Assessment (CIA) and University Assessment (UEX) mechanism.
3. Continuous internal assessment shall be of 15 marks (30%) while university Evaluation shall be of 35 marks (70%).
4. To pass each course, a student has to secure 40% mark in continuous assessment as well as university assessment i.e. minimum 6 marks in continuous assessment and 14 in university assessment in the respective course.
5. For Continuous internal assessment minimum two tests per paper must be organized, of which one must be written test of 10 marks.
6. Method of assessment for internal exams: written test, MCQ type test, Viva-Voce, Project, survey, field visits, tutorials, assignments, group discussion, etc. (on approval of the head of centre).
7. Theory - University Assessment Question Paper Pattern (According to CBCS - 2019 Pattern of SPPU) Note that in theory question paper weightage will be given to each topics equivalent to number of lectures assigned in the syllabus.

Preamble:

The syllabus of Chemistry for third year has been redesigned for **Choice Based Credit System** (**CBCS**: 2019 pattern) and to be implemented form academic year 2021-22. In CBCS pattern semester system has been adopted for B. Sc. degree programme. Different types of courses are introduced at degree level viz. **Discipline Specific Core Course (DSCC)**, **Ability Enhancement Compulsory Course (AECC)**, **Discipline Specific Elective Course (DSEC)** and **Skill Enhancement Course (SEC)**. DSCC courses has been introduced at FY/SY level and AECC courses at SY level. At TY level DSEC and SEC courses are to be introduced. Third year syllabus comprises of six theory and three practical courses of DSEC type and two theory SEC per semester.