



SYLLABUS OF LECTURES IN GENERAL AND INORGANIC CHEMISTRY
ACADEMIC YEAR 2026/2027, WINTER SEMESTER

#	Title	Hours	Week
1.	INTRODUCTION TO CHEMISTRY. ATOMIC STRUCTURE	3	Week 1
2.	RUTHERFORD-BOHR MODEL. THE MODERN VIEW OF ATOMIC STRUCTURE	3	Week 2
3.	DISTRIBUTION OF ELECTRONS IN THE ELECTRON SHELL OF THE ATOM. ATOMIC STRUCTURE AND PERIODICITY	3	Week 3
4.	CHEMICAL BONDING	3	Week 4
5.	VALENCE BOND THEORY. INTERMOLECULAR FORCES	3	Week 5
6.	COORDINATION COMPOUNDS	3	Week 6
7.	COLLOQUIUM 1	3	Week 7
8.	SOLUTIONS	3	Week 8
9.	ACIDS AND BASES. NEUTRALIZATION AND HYDROLYSIS	3	Week 9
10.	PERIODIC TABLE GROUP 1 ELEMENTS	3	Week 10
11.	PERIODIC TABLE GROUP 2 ELEMENTS. PERIODIC TABLE GROUP 13 ELEMENTS	3	Week 11
12.	PERIODIC TABLE GROUP 14 ELEMENTS	3	Week 12
13.	PERIODIC TABLE GROUP 15 ELEMENTS. PERIODIC TABLE GROUP 16 ELEMENTS	3	Week 13
14.	PERIODIC TABLE GROUP 17 ELEMENTS. PERIODIC TABLE GROUP 18 ELEMENTS	3	Week 14
15.	d- AND f-BLOCK ELEMENTS	3	Week 15

Total: 45 hours

September 11, 2026

Head of the Department: _____

(Prof. Dr. Kiril Gavazov)