



JOHN WESLEY THEOLOGICAL COLLEGE
COURSE TEMATICS



Course: Basic Chemistry	Course type: seminar	Credits: 3	Course ID: KTAK11
Course responsible:	Programme type: full time...	Hours/Semester : 30	Assessment: exam
Course objectives: The students learn about chemistry in general and get knowledge about the main fields of this science; they can be able to understand the contexts between the parts and whole systems. Acquiring basic knowledge of general chemistry and inorganic chemistry.			
Competencies to be improved: Knowledge: T1; T2; T7 Ability: K8 Attitude: A4 Autonomy and responsibility:			
Compulsory literature: Educational material from course Recommended literature:			
Course content: The course comprises the following topics: Structure of atoms. The chemical elements and the periodic table. Properties of non-metallic elements and their main compounds. Characterisation of metals and alloys. Characteristics of the state of matter. Chemical bonds. Chemical reactions and equations. Homogeneous and heterogeneous systems. Solutions and their chemistry, pH. Basic equilibrium and concentration and pH calculations. Hydrolysis and electrolysis. Electrochemistry. Fundamentals of organic chemistry. Classification of hydrocarbons. Hydrocarbon derivatives and their typical reaction types. Course requirements: -attendance at classes Grading scale: 100-90%: excellent; 90-80%:good; 80-70%:satisfactory; 70-60%: pass			
Course Programme: WJLF ENVIRONMENTAL SCIENCE	Semester: 2022_2023_1	Lecturers: Lilla Strobel	