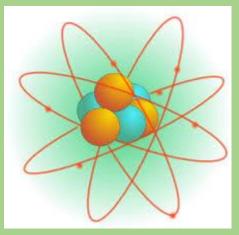
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Courses Teaching Methods

Courses code	Courses Name	Teaching Methods
Chem111	general chemistry(1)	 Lectures Tutorial discussions Homework assignments Laboratory work and assignment Problem solving
Chem 121	Organic chemistry(1)	 Lecture Laboratory Discussion E-learning
CHEM122	Inorganic chemistry (main group elements)	 Lectures Tutorial Discussions Homework Assignments Problem solving in the tutorial
CHEM211	Organic chemistry 2	 Lectures -format presentation Practical sessions Home assignment Small group teaching. collaborative education
CHEM212	Physical chemistry- Phase Rule	lecture discussion,mutual dialogueproblems, Laboratory study

		Working in groups within the labCollective seminars
CHEM213	General chemistry 2	 Lectures Discussion Experiments Researches Solving problems.
CHEM 221	Heterocyclic Compounds chemistry	 Lectures -format presentation Practical sessions Home assignment Small groups of students are given individual assignments
CHEM222	Quantum Chemistry(1)	 lecture discussion mutual dialogue Working in groups within the lab Collective seminars Problems research
CHEM223	Physical organic chemistry	LectureDiscussionE-learning
CHEM224	Descriptive Analytical Chemistry	LectureExercisesDiscussion

CHEM225	Electro-Reversible Chemistry 1	 Problems research, study lecture discussion, mutual dialogue Working in groups within the lab Collective seminars Problems research Practical
CHEM311	Quantum Chemistry(2)	 lecture discussion mutual dialogue Working in groups within the lab Collective seminars Problems research
CHEM312	Thermodynamic chemistry	 Lectures Discussion Experiments Researches Homework to develop the skills of self- study. The practical studies as groups. The work of -Intramural Research Internet search PowerPoint Offers
CHEM314	organic chemistry (polymers and patrol)	Lecture

CHEM315	Quantitative Analytical Chemistry	 Laboratory Discussion E-learning Lecture Exercises Discussion Experiments Divide in the form of practical sets
CHEM316	Physical Chemistry (Surfaces, Colloid s & Catalysis)	 Lectures Discussion Experiments Researches Homework to develop the skills of self- study. The practical studies as groups. The work of -Intramural Research Internet search PowerPoint Offers
CHEM321	Biochemistry 1	 Lecture. Scientific Discussion. Q&A. Presentation. Practical Training
CHEM322	inorganic chemistry(transition elements)	 Lectures Tutorial discussions Homework assignments Problem solving in the tutorial

CHEM323	Electro-Reversible Chemistry 2	 lecture discussion, mutual dialogue Working in groups within the lab Collective seminars Problems research Practical
CHEM324	Coordination chemistry	 Use computer and internet in teaching procedure Use photos and diagrams Encourage students to make dialogs Improve laboratory skills of the students Groups during tutorial Group assignment Communications of the student Lectures
CHEM411	Instrumental Analysis Chemistry	 Lecture Exercises Discussion Divide in the form of practical sets.
CHEM412	Kinetic Chemistry	 lecture discussion, mutual dialogue Working in groups within the lab Collective seminars Problems research Practical
CHEM413	Dyes chemistry	Lecture

CHEM414	Biochemistry 2	 Laboratory Discussion E-learning Lecture. Scientific Discussion. Q&A.
		Presentation.Practical Training
CHEM 421	Natural Products Chemistry	 Lectures -format presentation Practical sessions Home assignment Small groups of students are given individual assignments
CHEM422	Chemistry of organic reactions mechanisms	 Lecture Discussion E-learning
CHEM423	organic chemistry (Organic Compounds Spectra	 Lecture Laboratory Discussion E-learning
CHEM424	Nuclear and Radiation Chemistry	 Lectures Discussion Experiments Researches Homework to develop the skills of self- study. The practical studies as groups. The work of -Intramural Research

