

Master program of Analytical Chemistry

First Level

COURSE	TITLE	LT	LB	CR
CHEM 650	Advance Analytical Chemistry (1) Colorimetry, Spectrometry, Classical Chromatography and Statistical Analysis	3	0	3
CHEM 630	Advance Physical Chemistry (1) Electrochemistry, Chemical Kinetics and Surface Chemistry	3	0	3
CHEM 620	Advanced Inorganic Chemistry Coordination Chemistry and Mechanisms of Inorganic Reactions	3	0	3
	Total			8
Second Level				
		17	IB	CB
COURSE	TITLE	LT	LB	CR
	TITLE Electrochemical Methods of Analysis	LT 3	LB 0	CR 3
COURSE				
COURSE CHEM 651	Electrochemical Methods of Analysis	3	0	3
COURSE CHEM 651 CHEM 652	Electrochemical Methods of Analysis	3	0	3



Master program of Analytical Chemistry

Third Level				
COURSE	TITLE	LT	LB	CR
CHEM656	Spectrometric Methods	2	0	2
CHEM680	Research Skills	3	0	3
Elective Subject		2	0	2
CHEM657 CHEM658	Applied Analytical Chemistry Advanced Techniques and Nanotechnology	-	-	-
	Total			8
Fourth Level				
COURSE	TITLE	LT	LB	CR
CHEM699	Thesis	-	8	8
	Total			8



Master program of Inorganic Chemistry

First Level

COURSE	TITLE	LT	LB	CR
CHEM 620	Advanced Inorganic Chemistry Coordination chemistry and mechanisms of inorganic reactions	3	-	3
CHEM 640	Advanced Organic ChemistryOrganic Synthesis, Mechanism of Organic Reactions, and Photochemical Reactions	3	-	3
CHEM 650	Advanced Analytical Chemistry (1) Spectrometry, Classical chromatography, Colorimetry and statistical analysis	3	-	3
ond Level	Total			9
ond Level	Total	LT	LB	9 CR
		LT 2	LB -	
COURSE	TITLE		LB - -	CR
COURSE CHEM 621	TITLE	2	LB - - -	CR 2



Master program of Inorganic Chemistry

Third Level

COURSE	TITLE	LT	LB	CR
CHEM 624	Chemistry of Inorganic and Hybrid nanomaterials	2	-	2
CHEM 680	Research skills	3	-	3
Elective Subject		2	0	2
CHEM 625 CHEM 626	Applied Inorganic Chemistry Bioinorganic Chemistry	-	-	-
	Total			8
Fourth Level				
COURSE	TITLE	LT	LB	CR
CHEM 699	Thesis	-	8	8
	Total			



Master program of Organic Chemistry

First Level

COURSE	TITLE	LT	LB	CR
CHEM 630	Advanced Physical Chemistry (1) Electrochemistry and Chemical Kinetics, and Surface Chemistry.	3	0	3
CHEM 640	Advanced Organic Chemistry (1) Organic Synthesis, Mechanisms and Photochemical Reactions.	3	0	3
CHEM 650	Advanced Analytical Chemistry (1) Spectrometry, Classical Chromatography, Colorimetry and Statistical Analysis.	3	0	3
	Total			9

Second Level

COURSE	TITLE	LT	LB	CR
CHEM 641	Advanced Stereochemistry	2	0	2
CHEM 642	Advanced Spectroscopy of organic compounds	3	0	3
CHEM 643	Advanced Natural products chemistry	3	0	3
	Total			8



Master program of

Organic Chemistry

Third Level

COURSE	TITLE	LT	LB	CR
CHEM 644	Advanced heterocyclic chemistry	2	0	2
CHEM 680	Research Skills.	3	0	3
Elective Subject		2	0	2
CHEM 636 CHEM 645 CHEM 646	Chemistry of Dyes Advanced polymer chemistry Applied organic chemistry	-	-	-
	Total			7
Fourth Level				
COURSE	TITLE	LT	LB	CR
CHEM699	Thesis	-	8	8
	Total			8



Master program of Physical Chemistry

First Level

COURSE	TITLE	LT	LB	CR
CHEM 630	Advanced Physical Chemistry (1) Electrochemistry and Chemical Kinetics, and Surface Chemistry.	3	0	3
CHEM 640	Advanced Organic Chemistry (1) Organic Synthesis, Mechanisms and Photochemical Reactions.	3	0	3
CHEM 650	Advanced Analytical Chemistry (1) Spectrometry, Classical Chromatography, Colorimetry and Statistical Analysis.	3	0	3
	Total			9

Second Level

COURSE	TITLE	LT	LB	CR
CHEM 631	Advanced Physical Chemistry (2) Colloid Chemistry, Microemulsions, and Nanoemulsions	3	0	3
CHEM 632	Advanced Physical Chemistry (3) Statistical thermodynamics and Advanced Quantum Chemistry.	3	0	3
CHEM 633	Ion Exchange and Adsorption.	2	0	2
	Total			9



Master program of Physical Chemistry

Third Level

COURSE	TITLE	LT	LB	CR
CHEM 634	Advanced Physical Chemistry (4) Advanced Photochemistry and radiation chemistry.	2	0	2
CHEM 680	Research Skills.	3	0	3
Elective Subject		2	0	2
CHEM 635 CHEM 636 CHEM 637 CHEM 638	Nanochemistry Chemistry of Dyes Molecular Modelling Advanced Molecular Spectra	-	-	-
	Total			8
Fourth Level				
COURSE	TITLE	LT	LB	CR
CHEM699	Thesis	-	8	8
	Total			8