

الخطة الدراسية لدرجة البكالوريوس

DEPARTMENT OF INDUSTRIAL CHEMISTRY COURSES MAPPING

The First Year

Code	First Semester	Prerequisites	Credits
ISL 11011	Islamic Culture		2
ARB 1101	Arabic Course101		2
ENGL 1111	Fundamental English 101		2
PHYS 1111	General Physics		2
PHYS 1112	General Physics Laboratory		1
MATH 1111	Differential & Integration		2
MICR1111	Introduction of Microbiology		2
MICR1112	Introduction of Microbiology Laboratory		1
CHEM 1101	General Chemistry I		2
CHEM 1102	General Chemistry I Laboratory		1
			17Hr

Code	Second Semester	Prerequisites	Credits
CSA 1211	Computer Science and application		2
CSA 1212	Computer Science and application Laboratory		1
ARB 1211	Arabic Course102		2
ENGL 1221	Fundamental English 102		2
PHYS 1221	Basic Electricity and Electronics		2
PHYS 1222	Basic Electricity and Electronics Laboratory		1
MATH 1221	Differential Equations		2
MICR 1221	Applied Microbiology		2
MICR 1222	Applied Microbiology Laboratory		1
CHEM 1201	General Chemistry II		2
CHEM 1202	General Chemistry II Laboratory		1
			18 Hr

The Second Year

Code	First Semester	Prerequisites	Credits
CHEM 2131	Organic Chemistry I	CHEM 1011 , 1012	2
CHEM 2132	Organic Chemistry I Laboratory	CHEM 1011 , 1012	1
CHEM 2111	Analytical Chemistry I	CHEM 1201 , 1202	2
CHEM 2112	Analytical Chemistry I Laboratory	CHEM 1201 , 1202	1
CHEM 2141	Physical Chemistry I	CHEM 1201 , 1202	1
CHEM 2142	Physical Chemistry I Laboratory	CHEM 1201 , 1202	1
CHEM 2121	Inorganic Chemistry I	CHEM 1011, 1012	2
CHEM 2131	Statistics and Probability	MATH 1111 , MATH 1221	2
CHEM 2151	Fundamentals of Industrial Chemistry	CHEM 1011 , 1012	2
		CHEM 1201 , 1202	2
			17 Hr

Code	Second Semester	Prerequisites	Credits
CHEM 2231	Organic Chemistry II	CHEM 2131 , CHEM 2132	2
CHEM 2232	Organic Chemistry II Laboratory	CHEM 2131 , CHEM 2132	1
CHEM 2211	Analytical Chemistry II	CHEM 2111 , CHEM 2112	2
CHEM 2212	Analytical Chemistry II Laboratory	//	1
CHEM 2241	Physical Chemistry II	CHEM 2141 , CHEM 2142	1
CHEM 2242	Physical Chemistry II Laboratory	//	1
CHEM 2221	Inorganic Chemistry II		2
ICHE 2251	Introduction to Chemical Engineering	CHEM 2131 , MATH 1111 , MATH 1221	2
ENGL 2231	Communicative English	ENGL 1111 , ENGL1221	2
			15 Hr

The Third Year

Code	First Semester	Prerequisites	Credits
CHEM 3131	Organic Chemistry III	CHEM 2131 / CHEM 2231	2
CHEM 3132	Organic Chemistry III Laboratory	//	1
CHEM 3111	Analytical Chemistry III	CHEM 2111	2
CHEM 3112	Analytical Chemistry III Laboratory	//	1
CHEM 3141	Physical Chemistry III	CHEM 2241	2
CHEM 3142	Physical Chemistry III Laboratory	//	1
CHEM 3121	Inorganic Chemistry III	CHEM 2221	2
ICHEM 3151	Inorganic Industrial Chemistry	CHEM 2221 / ICHE 2151	2
ICHEM 3152	Inorganic Industrial Chemistry Laboratory	//	1
CSA3121	Computer application in chemistry	CAS 1211	2
CSA3122	Computer application in chemistry Laboratory	//	1
			17 Hr

Code	Second Semester	Prerequisites	Credits
CHEM 3231	Organic Chemistry V	CHEM 2231	2
BAOB 3211	Business administration and organization behaviors		3
ICHE3251	Polymer Chemistry	ICHE 2151	2
ICHE3252	Polymer Chemistry Laboratory	//	1
ICHE 3261 / ICHE 3262	Environmental Chemistry*	ICHE 2151	3
ICHE 3271 / ICHE 3272	Pharmaceutical Chemistry*	ICHE 2151	3
ICHE 3281 / ICHE 3282	Food Chemistry*	ICHE 2151	3
ICHE 3291 / ICHE 3292	Elective course		3
			20Hr
	Summer Training		4

The Fourth Year

Code	Second Semester	Prerequisites	Credits
CHEM 4131	Organic Chemistry IV	CHEM 2131 / CHEM 2231 /CHEM 3131	2
CHEM 4132	Organic Chemistry IV Laboratory	//	1
CHEM 4111	Analytical Chemistry IV	CHEM 3111	2
CHEM 4112	Analytical Chemistry IV Laboratory	//	1
ICHEM 4191 / ICHE 4192	Elective course	ICHE 2251	3
ICHE 4151	Reactor design and Unit Operations	CHEM 2221 / CHEM 3121	2
CHEM 4121	Inorganic Chemistry IV	ICHE 3252	2
ICHE 4161	Polymer Technology	//	2
ICHE 4162	Polymer Technology Laboratory		1
ICHE 4171	Research project I		2
ICHE 4181	Organic Industrial Chemistry*	CHEM 2231, CHEM 2231, CHEM 3131 ,CHE 4131	3
			17 Hr

Code	Second Semester	Prerequisites	Credits
ICHE 4251	Industrial electrochemistry	CHEM 2141, ICHE 2251, ICHE 3151	2
ICHE 4252	Industrial electrochemistry Laboratory	//	1
ICHE 4261	Technology of dyeing and surface coating	ICHE 4181, ICHE 4161 ,ICHE 3251	2
ICHE 4262	Technology of dyeing and surface coating Laboratory	//	1
ICHE 4271	Industrial waste Treatment	ICHE 2151, CHEM 3111, CHEM 4111	2
ICHE 4272	Industrial waste Treatment Laboratory		1
CHEM 4241	Physical Chemistry IV	CHEM 2241 , ICHE 3152 , ICHE 4181	2
ICHE 4281 / ICHE 4282	Elective course		3
ICHE 4291	Research project II		2
			13 Hr