

11. PROGRAM STRUCTURE DIAGRAM

Course Allocation Plan for Two Year Diploma and Four Year Bachelor Degree in Industrial Chemistry, College of Applied and Health Sciences

Year 1		Year 2		Year 3		Year 4	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
ENGL101 English Comm. Skills I (UR) P: Nil C: Nil CH: 3	CHEM102 Chemistry II (DR) P: CHEM101, CHEM181 C: CHEM182 CH: 3	CHEM201 Organic Chemistry I (DR) P: CHEM101 C: CHEM182 CH: 3	CHEM212 Analytical chemistry I (DR) P: CHEM102 C: CHEM292 CH: 3	CHEM302 Inorganic Chemistry II (DR) P: CHEM211 C: CHEM382 CH: 3	CHEM303 Analytical Chemistry II (DR) P: CHEM212 C: CHEM383 CH: 3	CHEM411 Pharmaceutical and Medicinal Chemistry (DR) P: CHEM214, CHEM216, CHEM301, CHEM314, CHEM303 C: CHEM491 CH: 3	CHEM499 Internship (DR) P: CHEM489 C: Nil CH: 6
CHEM101 Chemistry I (CR) P: Nil C: CHEM181 CH: 3	CHEM182 Chemistry II Lab (DR) P: CHEM101, CHEM181 C: CHEM102 CH: 1	CHEM281 Organic Chemistry I Lab (DR) P: CHEM181 C: CHEM201 CH: 1	CHEM292 Analytical chemistry (DR) P: CHEM182 C: CHEM212 CH: 1	CHEM382 Inorganic Chemistry II Lab (DR) P: CHEM211, CHEM182 C: CHEM302 CH: 1	CHEM383 Analytical Chemistry II Lab (DR) P: CHEM 292 C: CHEM303 CH: 1	CHEM491 Pharmaceutical and Medicinal Chemistry Lab (DR) P: CHEM294, CHEM296, CHEM381, CHEM394, CHEM383 C: CHEM411 CH: 1	
CHEM181 Chemistry I Lab (CR) P: Nil C: CHEM101 CH: 1	MATH102 Calculus II (CR) P: MATH101 C: Nil CH: 3	CHEM211 Inorganic Chemistry I (DR) P: CHEM102 C: Nil CH: 3	CHEM216 Polymer Chemistry (DR) P: CHEM201 C: Nil CH: 3	Elective 2 (DR) P: Nil C: Nil CH: 3	CHEM310 Petroleum Products and Processing (DR) P: CHEM201, CHEM281, CHEM211, CHEM212, CHEM292, CHEM210, CHEM214, CHEM294 C: Nil; CH: 3	CHEM489 Research project (DR) P: CHEM 303, CHEM314 C: Nil CH: 3	
BIOL101 Biology I (DR) P: Nil C: BIOL181 CH: 3	ENGL102 English Comm. Skills II (UR) P: ENGL101 C: Nil CH: 3	Elective 1 (DR) P: Nil C: Nil CH: 3	CHEM296 Polymer Chemistry Lab (DR) P: CHEM281 C: Nil; CH: 1	CHEM314 Unit Operations (DR) P: CHEM201, CHEM214 C: CHEM394 CH: 3	CHEM300 Principals of Chemical Engineering (DR) P: CHEM212, CHEM292, CHEM210, MATH102 C: Nil; CH: 3	CHEM410 Materials Chemistry (DR) P: CHEM211, CHEM216, CHEM302, CHEM313 C: Nil CH: 3	
BIOL181 Biology I Lab (CR) P: Nil C: BIOL101 CH: 1	ISLM101 Islamic Civilization (UR) P: Nil C: Nil CH: 3	MNGT313 Entrepreneurship (UR) P: Nil C: Nil CH: 3	CHEM214 Industrial Chemistry (DR) P: CHEM102, CHEM201, CHEM211 C: Nil CH: 3	CHEM394 Unit Operations Lab (DR) P: CHEM281, CHEM294 C: CHEM314 CH: 1	CHEM301 Organic Chemistry II (DR) P: CHEM201 C: CHEM381 CH: 3	Elective 3 (DR) P: Nil C: Nil CH: 3	<i>UR- University Requirement, DR- Department Requirement</i>
MATH101 Calculus I (CR) P: Nil C: Nil	PHYS101 Physics I (CR) P: Nil C: PHYS181	STAT201 Statistics (CR) P: MATH101 C: Nil	CHEM294 Industrial Chemistry Lab (DR)	CHEM313 Physical Chemistry I (DR) P: CHEM102, MATH102 C: CHEM383	CHEM381 Organic Chemistry II Lab (DR) P: CHEM281 C: CHEM301	CHEM414 Catalysis (DR)	

CH: 3	CH: 3	CH: 3	P: CHEM182, CHEM281, CHEM211 C: Nil CH: 1	CH: 3	CH: 1	P: CHEM302, CHEM382,CHEM301, CHEM381 C: Nil; CH: 3	
CHEM110 Green Chemistry (DR) P: Nil C: Nil CH: 3	PHYS181 Physics I Lab (CR) P: Nil C: PHYS101 CH: 1		CHEM210 Environmental Chemistry (DR) P:CHEM102,CHEM201 C: Nil; CH: 3	CHEM393 Physical Chemistry I Lab (DR) P: CHEM182 C:CHEM383 CH: 1	APSC312 Professional Ethics (CR) P: Nil C: Nil CH: 2		
			ARAB101 Arabic (UR) P: Nil; C: Nil; CH: 3				<i>CH: Credit Hours P: Pre-requisite C: Co-requisite</i>