

Study Plan

Chemical Engineering Revised Curriculum 2021 (For student ID. 64)

Year 1

Semester 1

Code	Course	Credit(s)	Remark
200-111	Into Engineering World	2((2)-0-4)	
200-112	Fundamental Mathematics for Engineer	3((3)-0-6)	
200-113	Fundamental Physics for Engineer	3((3)-0-6)	
200-114	Fundamental Chemistry for Engineer	2((2)-0-4)	
200-115	Basic Electrical Engineering	3((2)-2-5)	
200-116	Basic Engineering Programming	3((2)-2-5)	
200-117	Basic Engineering Drawing	2((2)-0-4)	
890-xxx	GE 6 Language and Communication	2((2)-0-4)	
	Total	20((18)-4-38)	

Semester 2

Code	Course	Credit(s)	Remark
230-101	Basic Chemistry in Chemical Engineering	3((3)-0-6)	
230-141	Basic Chemistry LaboratoryinChemical Engineering	1(0-3-0)	
237-111	Engineering Materials	2(2-0-4)	
200-103	Modern Life for Green Love	2((2)-0-4)	
001-102	The King's Philosophy and Sustainable Development	2((2)-0-4)	
388-100	Health for All	1((1)-0-2)	
xxx-xxx	GE 2 Citizenship and Peaceful Life	3((3)-0-6)	
895-001	Good Citizens	2((2)-0-4)	
890-xxx	GE 6 Language and Communication	2((2)-0-4)	
xxx-xxx	GE 7 Aesthetics and sports	1((1)-0-2)	
	Total	19((18)-3-36)	

Year 2

Semester 1

Code	Course	Credit(s)	Remark
230-001	Benefit of Mankinds	1(0-2-1)	
230-201	Material and Energy Balances	4((4)-0-8)	
230-202	Chemical Engineering Processes	3((3)-0-6)	
230-203	Mathematics Chemical Engineering I	3((3)-0-6)	
230-211	Fluid Mechanics and Applications	4((4)-0-8)	
230-212	Thermodynamics	3((3)-0-6)	
230-241	Fluid Mechanic and Particle Laboratory	1(0-3-0)	
xxx-xxx	GE 5 Systematic thinking, Logical thinking and Numerical thinking	2((2)-0-4)	
	Total	21((20)-3-40)	

Semester 2

Code	Course	Credit(s)	Remark
230-213	Chemical Engineering Thermodynamics	3((3)-0-6)	
230-214	Heat Transfer	3((3)-0-6)	
230-221	Chemical Engineering Kinetics and Reactor Design	3((3)-0-6)	
230-304	Mathematics Chemical Engineering II	3((3)-0-6)	
200-107	Internet of Thing for Digital life	2((2)-0-4)	
324-249	Analytical Chemistry I	3((3)-0-6)	
347-206	Statistic	3((3)-0-6)	
	Total	20((20-0-40)	

Year 3 (Regular)

Semester 1

Code	Course	Credit(s)	Remark
230-301	Economics and Applications	3((3)-0-6)	
230-321	Unit Operations I	3((3)-0-6)	
230-331	Chemical Engineering Equipment Design	3((3)-0-6)	
230-242	Chemical Engineering Laboratory I	1(0-3-0)	
230-344	Industrial Excursion	0((0)-40-0)	
234-566	Idea Creation for Innovation	1((1)-0-2)	
324-349	Analytical Chemistry II	3((3)-0-6)	
328-303	Basic Bio-Chemistry	3((3)-0-6)	
	Total	17((16)-43-32)	

Semester 2

Code	Course	Credit(s)	Remark
230-322	Unit Operations II	3((3)-0-6)	
230-330	Module : Environmental Control and Safety in Chemical Engineering Operations	7((6)-3-12)	
230-343	Chemical Engineering Seminar	1(0-2-1)	

230-345	Pre Practical Training	1(0-2-1)	
895-xxx	GE 7 Sports	1((x)-y-z)	
xxx-xxx	Free Elective	3(x-y-z)	
xxx-xxx	GE 5 Systematic thinking, Logical thinking and Numerical thinking	2((2)-0-4)	
	Total	18(x-y-z)	

Summer

Code	Course	Credit(s)	Remark
230-346	Practical Training	At least 320 hours	

Year 4 (Regular)

Semester 1

Code	Course	Credit(s)	Remark
230-421	Integrated Knowledge in Chemical Engineering	3(0-6-3)	
230-430	Module : Chemical Engineering Plant Design and Chemical Process Simulation	6((5)-3-10)	
230-431	Process Dynamics and Control	3((3)-0-6)	
xxx-xxx	Chemical Engineering Elective	3(x-y-z)	
230-442	Chemical Engineering Project I	1(0-2-1)	
230-341	Chemical Engineering Laboratory II	1(0-3-0)	
	Total	17(x-y-z)	

Semester 2

Code	Course	Credit(s)	Remark
230-443	Chemical Engineering Project II	3(0-6-3)	
xxx-xxx	Chemical Engineering Elective	3(x-y-z)	
xxx-xxx	Chemical Engineering Elective	3(x-y-z)	
	Total	9(x-y-z)	

Year 3 (Cooperative Education)

Semester 1

Code	Course	Credit(s)	Remark
230-301	Economics and Applications	3((3)-0-6)	
230-321	Unit Operations I	3((3)-0-6)	
230-331	Chemical Engineering Equipment Design	3((3)-0-6)	
230-242	Chemical Engineering Laboratory I	1(0-3-0)	
230-344	Industrial Excursion	0((0)-40-0)	
234-566	Idea Creation for Innovation	1((1)-0-2)	
324-349	Analytical Chemistry II	3((3)-0-6)	
328-303	Basic Bio-Chemistry	3((3)-0-6)	
	Total	17((16)-43-32)	

Semester 2

Code	Course	Credit(s)	Remark
230-322	Unit Operations II	3((3)-0-6)	
230-330	Module : Environmental Control and Safety in Chemical Engineering Operations	7((6)-3-12)	
230-343	Chemical Engineering Seminar	1(0-2-1)	

895-xxx	GE 7 Sports	1((x)-y-z)	
xxx-xxx	Free Elective	3(x-y-z)	
230-442	Chemical Engineering Project I	1(0-2-1)	
xxx-xxx	GE 5 Systematic thinking, Logical thinking and Numerical thinking	2((2)-0-4)	
	Total	18(x-y-z)	

Year 4 (Cooperative Education)

Semester 1

Code	Course	Credit(s)	Remark
230-421	Integrated Knowledge in Chemical Engineering	3(0-6-3)	
230-430	Module : Chemical Engineering Plant Design and Chemical Process Simulation	6((5)-3-10)	
230-431	Process Dynamics and Control	3((3)-0-6)	
xxx-xxx	Chemical Engineering Elective	3(x-y-z)	
230-443	Chemical Engineering Project II	3(0-6-3)	
230-444	Preparation for Cooperative Education	1((1)-0-2)	
230-341	Chemical Engineering Laboratory II	1(0-3-0)	
	Total	20(x-y-z)	

Semester 2

Code	Course	Credit(s)	Remark
230-445	Cooperative Education	6(0-40-0)	
	Total	6(0-40-0)	

