

Study Schedule

L- lecture Ex – Exercise Lab. – Laboratory Sem. – Seminary
P - Project (Design) E – Exam

BSc Studies

Chemical Technology and Engineering					I year				
Term	Course description			Hours per week					ECTS
	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
1	1.	Language	30		2				2
	2.	Fitness	30		2				1
	3.	Economics	60	2	2				6
	4.	Mathematics	90	3E	3				10
	5.	Physics	60	2	2				8
	6.	General and inorganic chemistry	60	2E	2				3
	Total		330	22					30

Chemical Technology and Engineering					I year				
Term	Course description			Hours per week					ECTS
	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
2	1.	Language	30		2				2
	2.	Fitness	30		2				1
	3.	Computer science	45			3			3
	4.	Mathematics	60	2E	2				6
	5.	Physics	75	2E	1	2			8
	6.	General and inorganic chemistry	75	2E	1	2			6
	7.	Technical drawing	45			3			4
	Total		360	24					30

Chemical Technology and Engineering					II year				
Term	Course description			Hours per week					ECTS
	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
3	1.	Language	30		2				2
	2.	Applied mathematics	60	2E	2				4
	3.	General and inorganic chemistry	75	2	1	2			6
	4.	Organic chemistry	45	3					2
	5.	Physical chemistry	45	2E	1				4
	6.	Process thermodynamics	45	2E	1				4
	7.	Fluid mechanics	45	2E	1				4
	8.	Transport phenomena	45	2	1				4
	Total		390	26					30

Chemical Technology and Engineering									
II year									
Term	Course description			Hours per week					ECTS
	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
4	1.	Language	30		2E				2
	2.	Organic chemistry	120	2E	1	5			10
	3.	Physical chemistry	90	2?	1	3			6
	4.	Analytical chemistry	60	1E		3			4
	5.	Transport phenomena	45	2E	1				4
	6.	Technical mechanics	45	3					4
	Total		390	26					30

Chemical Technology and Engineering									
III year									
Term	Course description			Hours per week					ECTS
	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
5	1.	Analytical chemistry	45	1		2			4
	2.	Process Dynamics & Control	45	1	1	1			3
	3.	Unit operations	90	3E	2			1	5
	4.	Industrial catalysis	45	2	1				4
	5.	Gas cleaning & wastewater treat.	45	2E	1				3
	6.	Intr. to mater. eng. and plastics	30	2					2
	7.	Industrial equipment	75	3E	2				5
	8.	Chemical technology	45	3E					4
	Total		420	28					30

Chemical Technology and Engineering									
III year									
Term	Course description			Hours per week					ECTS
	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
6	1.	Protection of intellectual property	15	1					2
	2.	Unit operations	60	2E		2			4
	3.	Separation processes	75	2E	1	2			5
	4.	Bioprocess engineering	60	2E	2				5
	5.	Biotechnology	30	2					3
	6.	Membrane technology	45	2		1			3
	7.	Chemical technology	60	2	2				4
	8.	Optional	30	2					4
	Total		375	25					30

Chemical Technology and Engineering									
IV year									
Term	Course description			Hours per week					ECTS
7	No.	Subject's name	hours total	L	Ex	Lab.	Sem	P	
	1.	Reaction and reactors engineering	60	2E	2				3
	2.	Environmental protection	30	2					2
	3.	Green chemistry, wastes and safety	45	2E			1		2
	4.	Thermal process engineering	30	2					2
	5.	Optional	30	2					4
	6.	Industrial training (4 weeks)							2
	7.	B.Sc. seminar	30				2		2
	8.	B.Sc thesis (eng. project)	75					5	13
	Total		105	20					30