



COMSATS Institute of Information Technology (CIIT)

Park Road, Chak Shahzad Islamabad Tel: (+92-51) 8318471, Fax: (+92-51)

E-mail: info@ciit.edu.pk, URL: www.ciit.edu.pk

No. CIIT-Reg/Notif/2011/632

January 17, 2011

NOTIFICATION

Consequent upon the recommendations of the Board of Studies for Chemical engineering in its 10th meeting held on October 22, 2010, the Board of Faculty of Engineering in its 10th meeting held on December 14, 2010 approved the following Scheme of Studies for Bachelor of Science in Chemical Engineering, BS (ChE) for the students of COMSATS Institute of Information Technology Lahore Campus admitted from Spring 2009 onwards:

Scheme of Studies of BS (ChE) applicable from Spring-2009

1st Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CHE110	Chemical Process Principles-I	3(3, 0)	
PHY132	Physics for Chemical Engineers	4(3, 1)	
MTH101	Calculus-I	3(3, 0)	
HUM100	English Comprehension & Composition	3(3, 0)	
HUM110	Islamic Studies	3(3, 0)	
EEE113	Engineering Drawing	1(0, 1)	
		17(15, 2)	

2nd Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CHM100	Chemistry-I	4(3, 1)	
HUM111	Pakistan Studies	3(3, 0)	
MTH102	Calculus-II	3(3, 0)	MTH101
CSC101	Introduction to Computing	3(2, 1)	
HUM102	Report Writing Skills	3(3, 0)	HUM100
CHE120	Thermodynamics-I for Chemical Engineers	3(3, 0)	
		19(17, 2)	

3rd Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
MEE111	Workshop Practice	2(0, 2)	
CHM201	Chemistry-II	4(3, 1)	CHM100
CHE211	Chemical Process Principles-II	3(3, 0)	CHE110
MTH242	Differential Equations	3(3, 0)	MTH102
CHE230	Fluid Mechanics for Chemical Engineers	4(3, 1)	PHY132
		16(12, 4)	



4261
21-1-11

21/1/11

AR (A/g)

24/1/11

1) CO(R)
2) ACE

4th Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CSC141	Introduction To Computer Programming	4(3, 1)	CSC101
CHE212	Transport Phenomena	3(3, 0)	MTH242
HUM103	Communication Skills	3(3, 0)	HUM100
CHE213	Particulate Technology	4(3, 1)	CHE230
CHE221	Chemical Process Technology-I	3(3, 0)	
		17(15, 2)	

5th Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CHE322	Fuels and Combustion	4(3, 1)	
CHE331	Mass Transfer Operations	3(3, 0)	
CHE332	Heat Transfer Operations	3(3, 0)	
CHE323	Thermodynamics-II for Chemical Engineers	4(3, 1)	CHE120
MTH375	Numerical Computations	3(2, 1)	MTH102
		17(14, 3)	

6th Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CHE340	Engineering Materials	3(3, 0)	
CHE324	Chemical Reaction Engineering	4(3, 1)	CHE322
CHE333	Simultaneous Heat & Mass Transfer Operations	3(3, 0)	CHE212
CHE334	Instrumentation and Process Control	4(3, 1)	MTH242
CHE335	Mass Transfer Operations (Lab)	1(0, 1)	
CHE336	Heat Transfer Operations (Lab)	1(0, 1)	
		16(12, 4)	

Summer Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CHE337	Industrial Training (4-6 Weeks)	5(0, 5)	
		5(0, 5)	

7th Semester


Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
CHE425	Chemical Process Technology-II	4(3, 1)	CHE221
ECO300	Engineering Economics	2(2, 0)	
CHE438	Simultaneous Heat & Mass Transfer Operations (Lab)	1(0, 1)	
	Elective-I	3(3, 0)	
CHE439	Petroleum Refinery Engineering	3(3, 0)	
CHE441	Chemical Engineering Plant Design	3(3, 0)	
		16(14, 2)	

8th Semester

Course Code	Course Title	Cr. Hrs.	Pre-Requisite(s)
MGT462	Project Planning & Management	2(2, 0)	
	Elective-II	3(3, 0)	
CHE442	Chemical Engineering Plant Design Project	5(0, 5)	
MGT362	Production & Operation Management	3(3, 0)	
CHE443	Maintenance Engineering & Safety	2(2, 0)	
		15(10, 5)	

Grand Total: 138 Credit Hours**Semesters Total: 8 Semesters****Elective Courses**

Course Code	Course Title
CHE415	Oil and Gas Production and Processing
CHE416	Petrochemical Engineering
CHE417	Corrosion Engineering
CHE418	Gas Processing
CHE426	Colorants and Auxiliaries
CHE427	Fibrous Materials processing
CHE428	Advanced Coloring Engineering
CHE429	Textile Processing
CHE446	Chemical Process Design & Simulations
CHE450	Polymer & Rubber Technology
CHE451	Polymer Engineering
CHE461	Biochemical Engineering
CHE462	Biochemical Separations
CHE463	Biochemical Process and Products
CHE470	Coal Combustion Technology
CHE471	Renewable Energy Resources
CHE472	Industrial Energy Systems
CHE480	Risk Management and Safety
CHE481	Environmental Engineering
CHE482	Waste Management
CHE483	Fundamentals of Environmental Processes
CHE490	Nuclear Engineering
CHE491	Novel Separation Processes
CHE492	Mineral Processing Technology
CHE493	Electronic & Liquid Crystalline Materials
CHE494	Fuel Cell Technology
CHE495	Composite Materials


 (Muhammad Murtaza)
 Assistant Registrar

Distribution:

1. Director, CIIT Lahore Campus
2. Dean, Faculty of Engineering
3. Controller of Examinations, CIIT
4. Chairman, Department of Chemical Engineering
5. All HoD's/Incharge of the Department of Chemical Engineering
6. Additional Registrar (Academics), Islamabad Campus

CC:

1. Registrar CIIT
2. AdR(Academics) P.S
3. SO to Rector