
校教[2015]23号

Undergraduate Education Program for Specialty in
Pharmaceutical Engineering

College College of Chemistry and
Chemical Engineering

Major Chemical Engineering
and Technology

Duration Four years

Degree Granted Bachelor of Engineering

5

1

2

3

1 2

1.

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5.1

5.2

6.

6.1

GMP

6.2

7.

7.1

7.2

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8.1

8.2

9.

9.1

9.2

10.

10.1

10.2

11.

11.1

11.2

12.

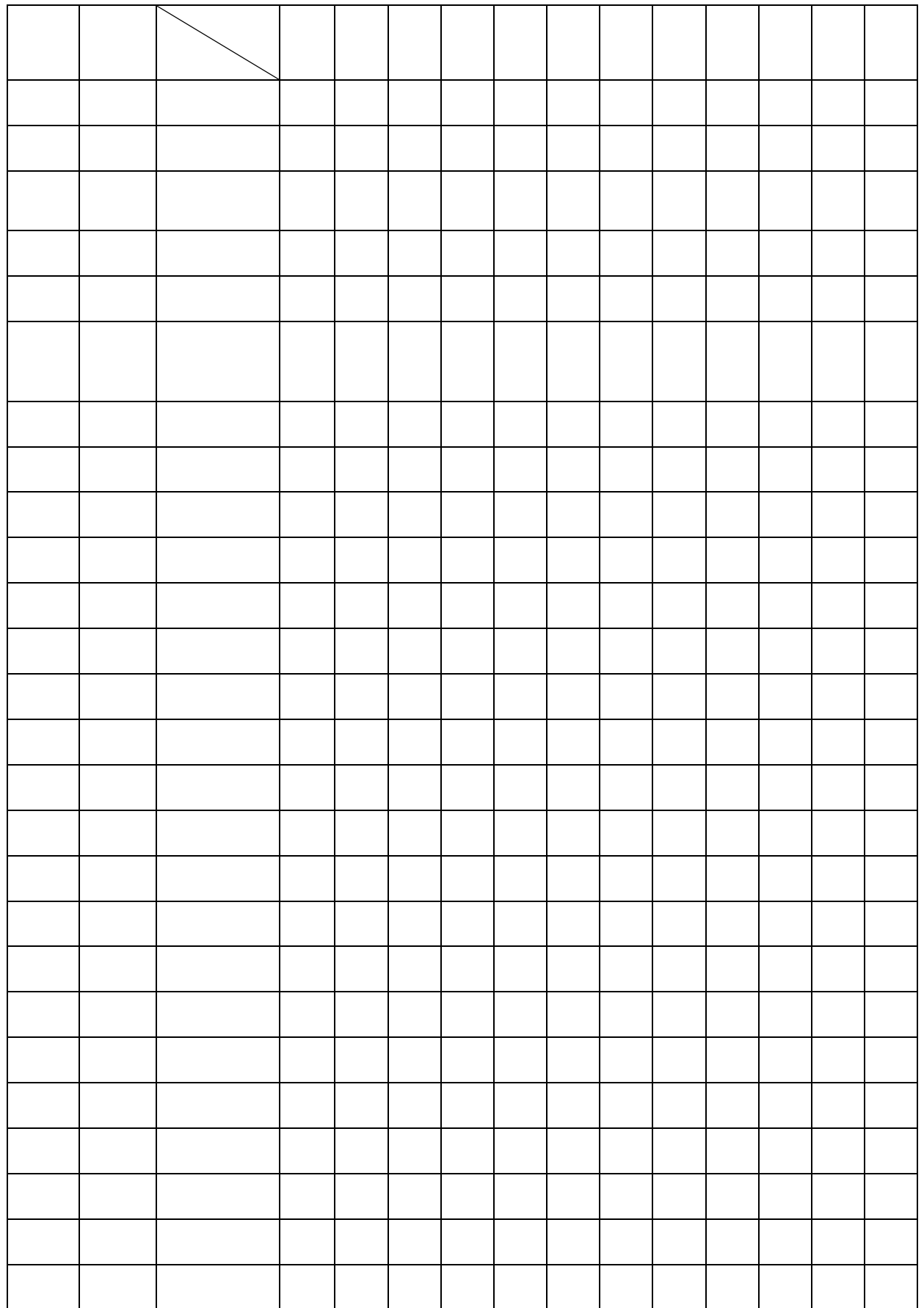
12.1

12.2

1	1.1	B A A A A A B
	1.2	E F D D B B B B C B
	1.3	F
	1.4	B C A
2	2.1	D B D
	2.2	C R A A A C A A
	2.3	B R
3 /	3.1	A A C
	3.2	B A A
	3.3	B
4	4.1	E F D D B A C B B
	4.2	C
		B B A

		A B B
	4.3	C C
5	5.1	R C
	5.2	R C
6	6.1	B C GMP C
	6.2	A A
7	7.1	A
	7.2	C C
8	8.1	C
	8.2	B
9	9.1	C
	9.2	C
10	10.1	
	10.2	R

11	11.1	C A
	11.2	A C
12	12.1	R
	12.2	





course type	course nature	course code	course name	crs	hrs.	including			semester time allocation							
						theory	operation	exp. Practice								
		00006664	A() College Physics A	3.5	56	56				4						
		00006665	A() College Physics A	4	64	64				4						
		00000046	A() Physics Experiments A	2	32	2		30		2						

Required

Basic General Education Core Curriculum

course type	course nature	course code	course name	crs	hrs.	including			semester time allocation										
						theory	operation	exp. Practice											
Basic Courses	Required	00006247	E Inorganic Chemistry E	3.5	56	56			5										
		00004275	F Analytical Chemistryv F	2.5	40	40				4									
		00005151	D Organic Chemistry D	3.5	56	56					5								
		00005004	D Physical Chemistry D	4.5	72	72						6							
		00000411	B Biochemistry B	2.5	40	32			8				3						
		00001370	Principle of Chemical Engineering	5.5	88	88								6					
		00001372	Principle of Chemical Engineering	3.0	48	24			24								3		
	Crs/Hrs Total				25.0	400	368			32									
	Elective	00005649	Electrical Technology	2.5	40	32	(16)	8			3								
		00007505	A Mechanical Fundament of Chemical Equipments A	2.5	40	40						4							
		00007507	C Chemical Meters & Automation C	2.5	40	40							4						
		00007936	C Experiment design and data processing C	2.5	40	20	20							4					
		00006317	Introduction of Pharmaceutical Engineering and Technology	2.0	32	32					4								
		00005762	R Literature Retrieval and Utilization R	2.0	32	22	4	6									4		
		00001360	Chemical Technology Economy	2.0	32	32											4		
		00007530	Environmental and Safety Engineerring	2.0	32	32							4						
		00001454	Application of Spectrum Analysis	2.0	32	32											4		
		00006272	Design and Development of New Drugs	2.0	32	32												4	
		00006277	Academic Frontier	1.0	16	16											6		

C

00005286

including

course type	course nature	course code	course name	crs	hrs.
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