



	T-1
	P-1
1	S-1
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3 EEG9330	I-1



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1.1	.....	T-1
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3.1	.....	T-5
3.2	.....	T-6
3.3	.....	T-8
3.4	.....	T-8
3.5	.....	T-9
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4.1	.....	T-9
4.2	.....	T-9
4.3	.....	T-10
4.4	.....	T-10
4.5	.....	T-10
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5.1	.....	T-10
5.2	.....	T-11
5.2.1	.....	T-11
5.2.2	.....	T-12
5.2.3	.....	T-14
5.2.4	.....	T-14
5.3	.....	T-14
5.3.1	.....	T-15
5.3.2	.....	T-15
5.4	.....	T-16
5.5	.....	T-17

5.6	.....	T-17
5.7	.....	T-18
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6.1	.....	T-18
6.2	.....	T-19
6.3	.....	T-20
6.4	.....	T-20
6.4.1	.....	T-20
6.4.2	.....	T-20
6.4.3	.....	T-20
6.5	.....	T-21
6.5.1	.....	T-21
6.5.2	.....	T-21
6.5.3	.....	T-22
6.6	.....	T-23
6.7	.....	T-23
6.8	.....	T-24
6.9	.....	T-24
6.10	.....	T-25
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## 1.2

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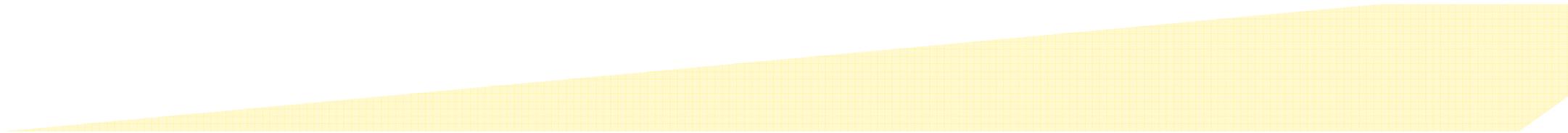


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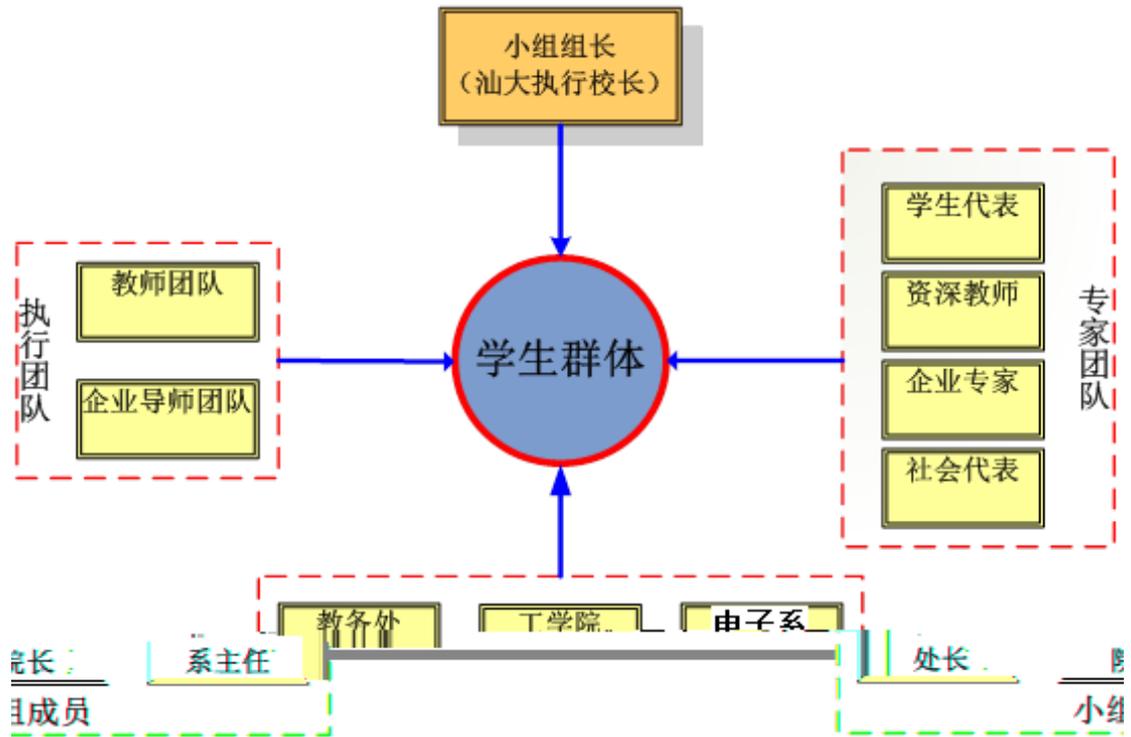




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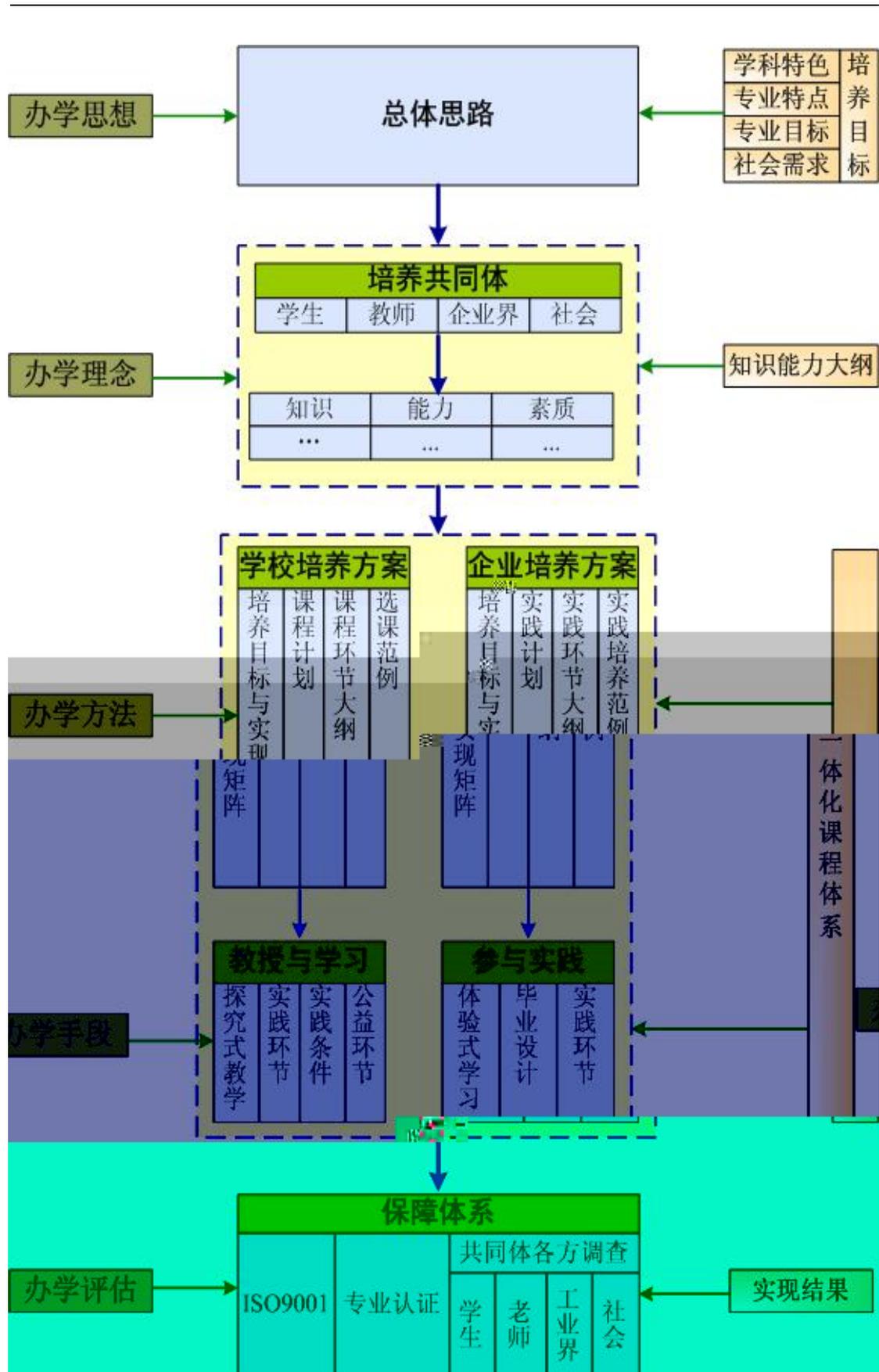
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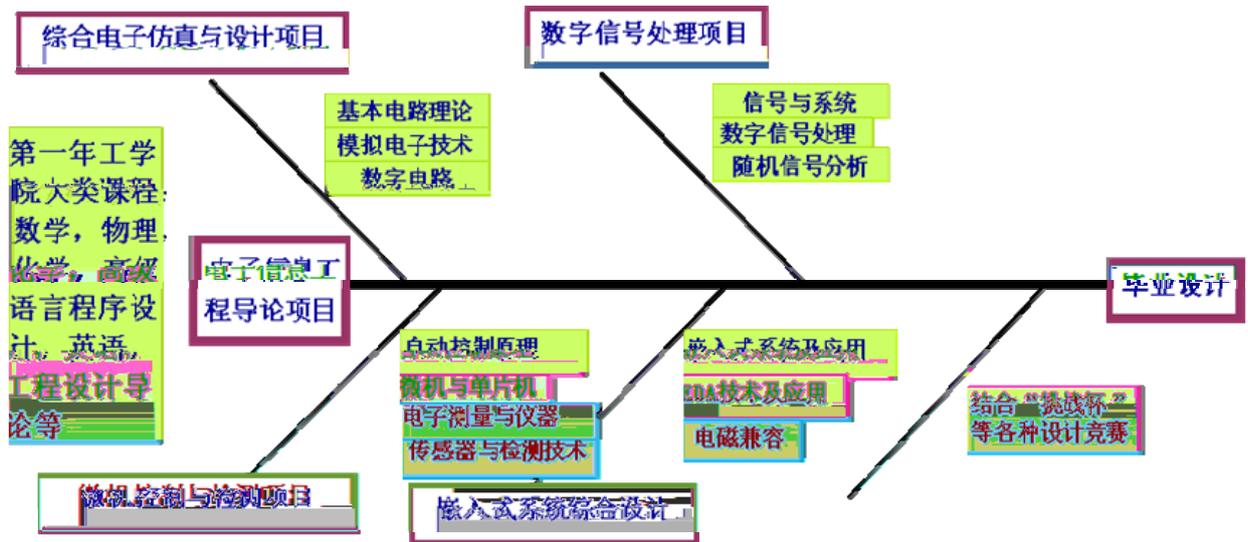
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## **6.3**

## **6.4**

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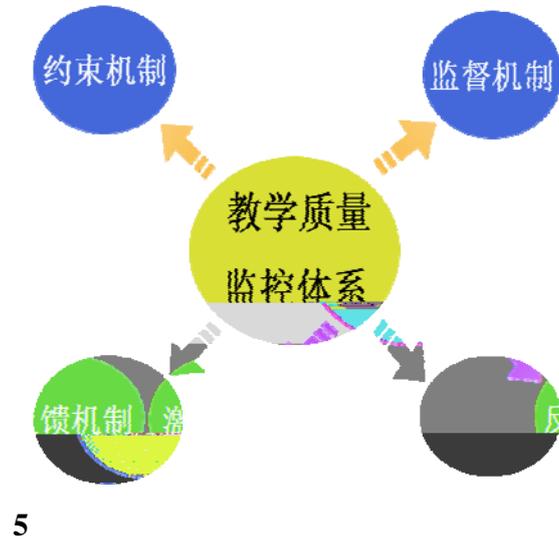
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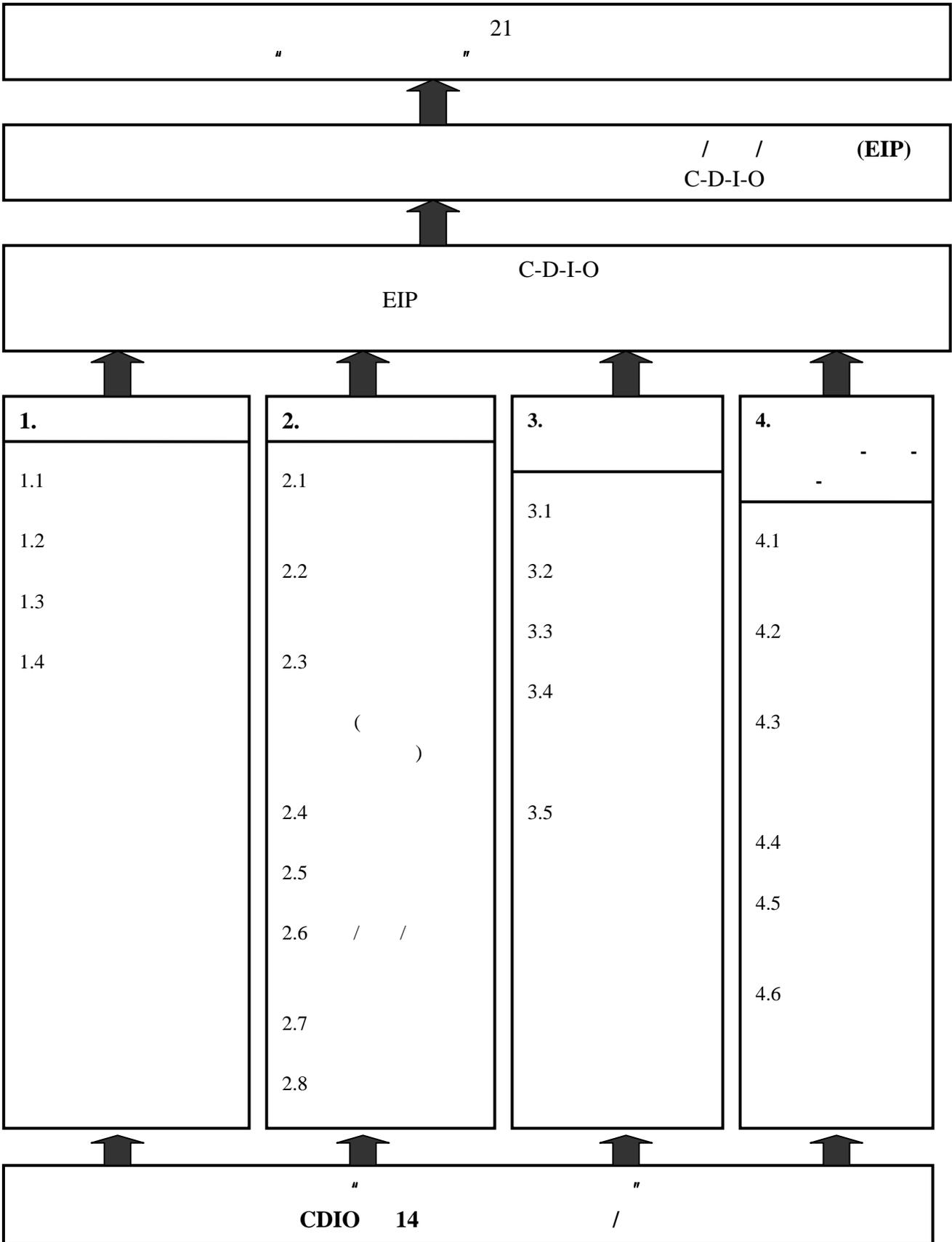
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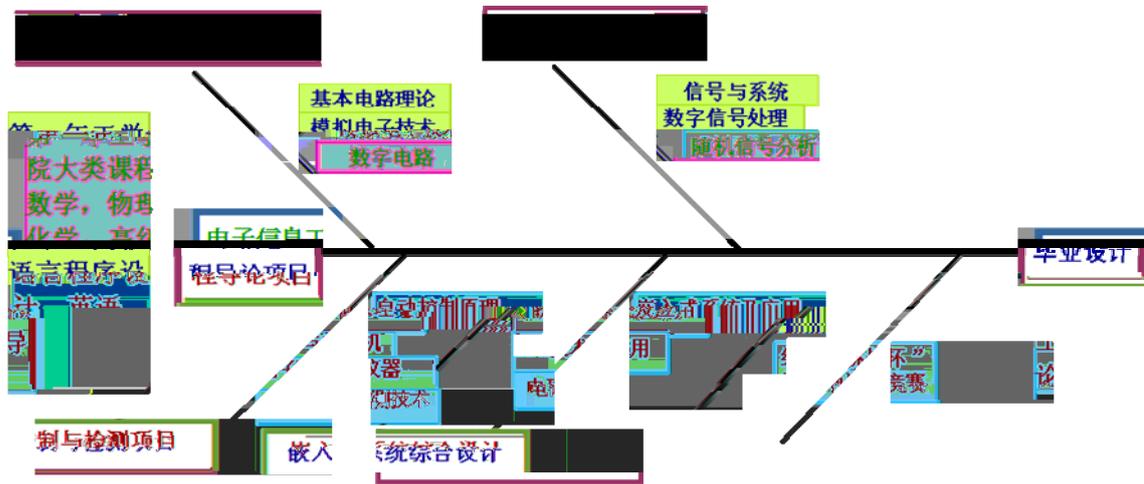
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电子信息工程专业核心课程培养结构示意图

- |    |     |   |      |
|----|-----|---|------|
| 1) | 53  |   | ELC4 |
| 2) | 30  |   |      |
| 3) | 65  | 3 | 10   |
| 4) | 161 |   |      |

注：(1) 带五角星 ( ) 的课程为综合本专业核心专业领域的 1 级综合项目，1 级项目为本专业的核心骨架，必须按照给定的时间选修；

(2) 带双五角星 ( ) 的课程为 2 级综合项目，2 级项目带领一组相关课程并有可能跨学期，选课时必须考虑相关课程的选修以及时间顺序。

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<b>1</b>	<b>11</b>	<b>30</b>	
MAT1110			6
MAT1210			6
MAT1130			2
( MAT1110)			
MAT1240			3
( MAT1210)			
PHY1030			4
PHY1000			2
ENC9105			2
CST9910 C			2
ENC9301			1
ENC9110			1
ENC9120			1
<b>2</b>	<b>(7</b>	<b>25</b>	<b>)</b>
MAT1230			2
EEG9100			5
EEG9110			4.5
EEG9210			4.5
EEG9221			3
EEG9231			4
EEG9320			2
<b>3</b>	<b>15</b>	<b>37</b>	
EEG9240			4
EEG9314			2.5
EEG9330			3
EEG9360			3
EEG9318			2
EEG9315 FPGA			2.5
EEG9307 DSP			2
EEG9370			2
EEG9013			2
EEG7001			1
EEG7002			1
EEG7003			1
EEG7200			1
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<b>4</b>	<b>3</b>	
ENC8000		1
EEG8010		1
EEG8020		1
EEG8031		1
EEG8050		1

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EEG9001		2
EEG9250		3
EEG9002		2
EEG9003		2
EEG9011		2
EEG9005		2
EEG9006		2
EEG9007		2
EEG9008		2
EEG9009		2
EEG9004		2
EEG9012		2
EEG9013		2
EEG9014		2
EEG9016		1
EEG9017		2
EEG9306 EDA		2
MEC9910		2



课程名称	学分	课程性质	职业适应性和整合思维能力	学习和工程知识能力	应用自然科学操作、分析处理数据能力	设计、实验设计系统、单元或过程能力	根据需求设计团队工作能力	在跨学科团队合作能力	指导和解决和责任感的理解能力	对职业道德和交流沟通能力	有效的表达对社会、环境影响的能力	评估工程问题、持续提高能力	终身学习、文化、审美、消费心理的理解能力	对国际政治、军事、技能和现代工程开发工具(平台)的能力	应用各种技术、利用电路及信号系统理论、电子线路知识完成电子电路系统的设计、构建、测试、操作和维护能力	理学、化学知识研制电子功能部件的能力	运用数学、物理、设计、评估、改进以计算机为核心复杂电子应用系统的能力	在复杂电子应用系统中应用项目管理技术的能力	在电子系统中应用差分方程、变换域方法进行信息提取、信号压缩的能力	课程/项目	
																					2.1 工程推理和解决问题
本电路理论	5	必修		3	2	2	1	2	2	2	1	2	1	2	2		3	2	1	2	EEG9100 基
目管理	1	选修				1	2		2	2											EEG9016 项
<b>学分小计</b>	<b>24</b>																				<b>本学期必修</b>
子通信工程系统项目☆	1	必修		1		1	2		2												EEG7001 电
军训	1	必修																			训
<b>学分小计</b>	<b>2</b>																				<b>本学期必修</b>
	1	必修																			<b>第二学年</b>
#英语 (ELC3)	4	必修																			#体育
MAT1230 复变函数	2	必修																			
EEG7002 电子通信工程系统项目☆	1	必修			1		1	2		2											
EEG9100 数字电路	3	必修									1	2	2	2	2	2	1	1	2	3	3
EEG9320 电磁场理论	2	必修									3	2	2	1	3	1	2	1	2	1	3
EEG9017 网络工程	2	选修									3	2	3	2	2	2	2	1	1	2	3
<b>本学期必修学分小计</b>	<b>19</b>																				
#体育	1	必修																			
#英语 (ELC4)	4	必修																			
MAT1240 概率论与数理统计	3	必修																			
EEG7003 电子通信工程系统项目☆	1	必修									1	2	2	2	2						
EEG9221 信号与系统	3	必修									2	2	1	2	1						1
EEG9231 微机与单片机系统及应用	4	必修									3	3	1	2	2	2	1	1	2	3	3
EEG9240 高频电子线路	4	必修									3	3	2	2	2	1				1	3
EEG9200 电子测量与仪器	2	必修									2	2	2	2	2	1	1	2	1	2	
<b>本学期必修学分小计</b>	<b>23</b>																				
EEG8010 微机控制与检测项目	1	选修			3	3	4	2	2	2	2	1	1	2	3	3	1	3	2	2	2
EEG8020 综合电子仿真与设计项目☆	1	选修			2	3	2	1	2	2	2	1	2	1	2	2	2	2	2	1	2
<b>本学期必修学分小计</b>																					
<b>第三学年</b>																					
ENC9301 工程师职业道德与责任	1	必修																			
EEG9330 数字信号处理	3	必修			3	3	3	1	3	1	1	1	1	1	2	3	1	3	1	2	2
EEG9318 传感器与检测技术	3	必修			2	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2
EEG9370 随机信号分析	2	必修			2	3	1	2	3	1	2	1	2	1	2						
EEG9013 电磁兼容与抗干扰技术	2	必修			3	2	2	2	3	2	2	1	1	2	3	2	1	2	2	3	2
EEG9306 EDA技术及应用	3	选修			2	2	2	1	1	1	1	1	1	1	1	3	2	2	2	1	1
COE9310 现代通信原理	4	选修			3	2	1	2	2	1	1	1	1	1	3	3	3	2	2	3	3
EEG9001 自动控制原理	2	选修			3	2	3	1	3	1	3	2	3	2	3	3	3	3	3	3	3
<b>本学期必修学分小计</b>	<b>11</b>																				

(Bloom's Taxonomy)

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6	<b>Evaluation</b>		Appraise(    ) Interpret(    ) Criticize(    ) Justify(    )	(    )
5	<b>Synthesis</b>		Design(    ) Create(    ) Organize(    ) Reconstruct(    )	(    )
4	<b>Analysis</b>		Analyze(    ) Break down(    ) Identify(    ) Present(    ) Formulate(    ) Subdivide(    )	(    )
3	<b>Application</b>		Apply(    ) Conduct(    ) Solve(    ) Use(    )	
2	<b>Comprehension</b>	“    ”	Explain(    ) Distinguish(    ) Paraphrase(    ) Summarize(    ) Generalize(    )	
1	<b>Knowledge</b>	,	Define(    ) Label(    ) List(    ) Recite(    ) Select(    )	

卓越工程师计划

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		2.1	2.2	4.3 4.4	3.1 3.2	4.4 4.6	4.5 2.5	3.2 3.3	2.3 4.2	2.4	2.3 4.1	4.5 4.6					
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PHY1030	4																
PHY1000	2																
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EEG9210	5	3	3	3	2	2	2	2	1	1	2	3	3	1	3	2	2
EEG9320	2	3	2	2	1	3	1	2	1	2	1	3	3	3	2	2	3
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# ELC4	4																
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EEG7003	1	1		1	2		2										
EEG9221	3	2		2		1		1				1	2		1	1	2
EEG9231	4	3	3	1	2	2	2	2	1	1	2	3	3	1	2	2	2
EEG9240	4	3	3	2		2		1				1	3		2		2
EEG9250	3	2	3	2	2	2	2	1	1	2	1	2					
	23																
EEG8010	1	3	3	4	2	2	2	2	1	1	2	3	3	1	3	2	2
EEG8020	1	2	3	2	1	2	2	2	1	2	1	2	2	2	2	1	2
ENC9301	1																
EEG9330	3	3	3	3	1	3	1	1	1	1	1	2	3	1	3	1	2

EEG9318	3			2	2	2		2		1			1		2	2	2	2	
EEG9370	2			2	3	1	2	3	1	2	1	2	1	2					
EEG9013	2			3	2	2	2	3	2	2	1	1	2	3	2	1	2	3	2
EEG9306 EDA	3			2	2	2	1	1		1	1		1	1	3	2	2	1	1
COE9310	4			3	2	1		2			1			1	3	3	2		
EEG9001	2			3	2	3	1	3	1	3	2	3	2	3	3	3	3	3	3
	11																		
EEG9314	3			2	2	2		2		1			1		2	2	2	2	
EEG9307 DSP	2			2	3	2	2	2	3	2	1	2	1	2		1			
EEG9360	2			3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
COE9015	2			2	2	1	1	2							1				
EEG9315 FPGA	2			2	2	2	1	1		1	1		1	1	3	2	2	1	1
	11																		
EEG8050	1			3	2	4	3	4	4	4	4	3	3	4	3	3	4	4	3
EEG8031	1			2	2	2	2	2	1	2	1	1	1	1	2	2	2	2	
ENC8000	1																		
EEG7200	1			1	1	1		1	2	1	2	2	1	1	1		1		1
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EEG7300 (2)	10																		
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	—FIR — .....	<b>26</b>
	—XX XX IIR .....	<b>26</b>
	—XX XX IIR — .....	<b>26</b>
	—XX XX IIR — .....	<b>26</b>



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(Digital Signal Processing)

DSP

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DSP

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S. J. Orfanidis. Introduction to Signal Processing.

• Prentice-Hall

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1. A.V. Oppenheim

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3. MATLAB



\*

<p>The application of circuit analysis and design, computer programming, associated software, analog and digital electronics, and microcomputers to the building, testing, operation, and maintenance of electrical/electronic(s) systems.</p>	<p>3</p>	<p>FIR IIR</p>
<p>The applications of physics or chemistry to electrical/electronic(s) circuits in a rigorous mathematical environment at or above the level of algebra and trigonometry.</p>	<p>1</p>	<p>" "</p>

The ability to analyse, design and implement control systems, instrumentation systems, communications systems, computer systems, or power systems. the8Tc03diempKDBÚk©

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The application of electric circuits, computer programming, associated software, analog and digital electronics, voice and data communications, and the principles of telecommunications systems in the solution of telecommunications problems.	3	FIR IIR
The applications of physics to telecommunications systems in a rigorous mathematical environment at or above the level of algebra and trigonometry.	1	" "
The ability to analyze, design, and implement telecommunications systems.	3	FIR IIR
The ability to analyze and implement switching technologies, wide area networking technologies, and policy.	1	
The ability to manage, design, and plan wide area networks.	1	
The ability to utilize statistics/probability, transform methods, or applied differential equations in support of telecommunication systems and wide area networks.	3	FIR IIR

\*

6	<b>Evaluation</b>		Appraise( ) Interpret( ) Criticize( ) Justify( ) Support( )	( )
5	<b>Synthesis</b>		Design( ) Develop( ) Create( ) Compose( ) Organize( ) Reconstruct( )	( )
4	<b>Analysis</b>		Analyze( ) Break down( ) Identify( ) Present( ) Formulate( )	8P8(IVCEIT)

CDIO

\*

1	1.1		3	IIR FIR
			3	FIR
			2	
	1.2		3	
		DTFT DFT FFT	4	FIR
		FIR	4	FIR
		IIR	4	IIR
	1.3		2	
		FIR	2	FIR
		" "	2	DSP
			2	DSP
			1	DSP

<b>2</b>	<b>2.1</b>	2.1.1	3	
		2.1.2	3	
		2.1.3	3	
		2.1.5	3	
	<b>2.2</b>	2.2.2	2	
		2.2.4	3	
	<b>2.3</b>	2.3.1	2	
		2.3.3	3	
		2.3.4	3	
	<b>2.4</b>	2.4.2	2	
		2.4.4	3	
		2.4.6	2	
		2.4.7	2	
	<b>2.5</b>	2.5.1	3	
		2.5.3	1	
	<b>3</b>	<b>3.1</b>	3.1.1	2
3.1.2			2	
3.1.5			2	
<b>3.2</b>		3.2.3	3	
		3.2.4	2	
		3.2.5	3	
		3.2.6	2	
<b>3.3</b>		3.3.1	2	

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	<b>4.1</b>			
	<b>4.2</b>			



	The course syllabus Why DSP is so important ? How to teach and learn?	1
	ADC DAC	3
	pdf	2

	FIR	
<b>DSP</b>	DTMF	4
		40



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1		0
2		0
3		8
		8

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1			4
2	FIR		4
3	XX XX IIR		4
			8

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**1.**

1.1

3-5

**2.2 CDIO**

<b>1</b>	<b>1.1</b>		3	
			3	
	<b>1.2</b>		3	
		DTFT DFT FFT	4	DFT FFT
	<b>1.3</b>		2	
<b>2</b>	<b>2.1</b>	2.1.1	3	
		2.1.3	3	
		2.1.5	3	
	<b>2.2</b>	2.2.2	2	
		2.2.4	3	DFT/FFT
	<b>2.3</b>	2.3.1	2	
		2.3.3	3	
		2.3.4	3	
	<b>2.4</b>	2.4.2	2	
		2.4.4	3	DFT/FFT
		2.4.6	2	
		2.4.7	2	
	<b>2.5</b>	2.5.1	3	

3.1.2

3.4



4.



5.

5.1



6.

6.1



6.2



6.3



6.4



6.5



6.6



7.

7.1

7.1.1

7.1.2

7.2

7.2.1

7.2.1.1

7.2.1.2



7.2.2



7.3 ( )

7.3.1



7.3.2



7.3.3 ( )

7.4 ( )

7.4.1



7.4.2



7.4.3



7.4.5



7.5 ( Java Matlab Labview )

■ Matlab

8.

8.1



8.2

8.2.1



8.2.2



8.2.3



8.3

8.4

( )

8.4.1

8.4.2

9.

**10.**

10.1

10.2

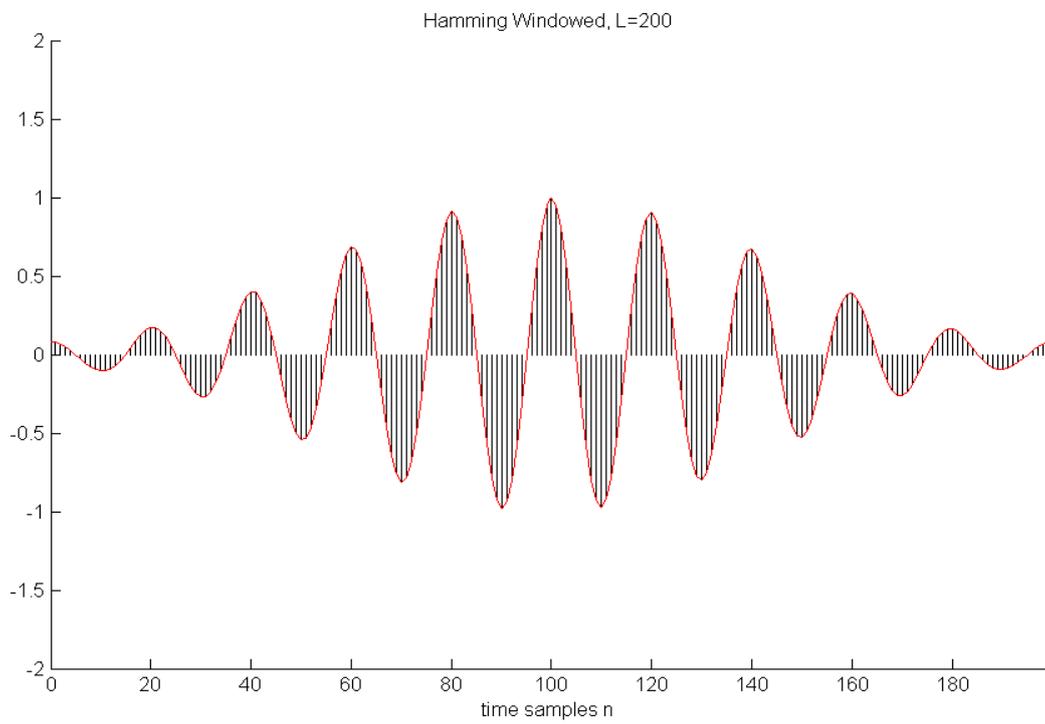
10.2.1

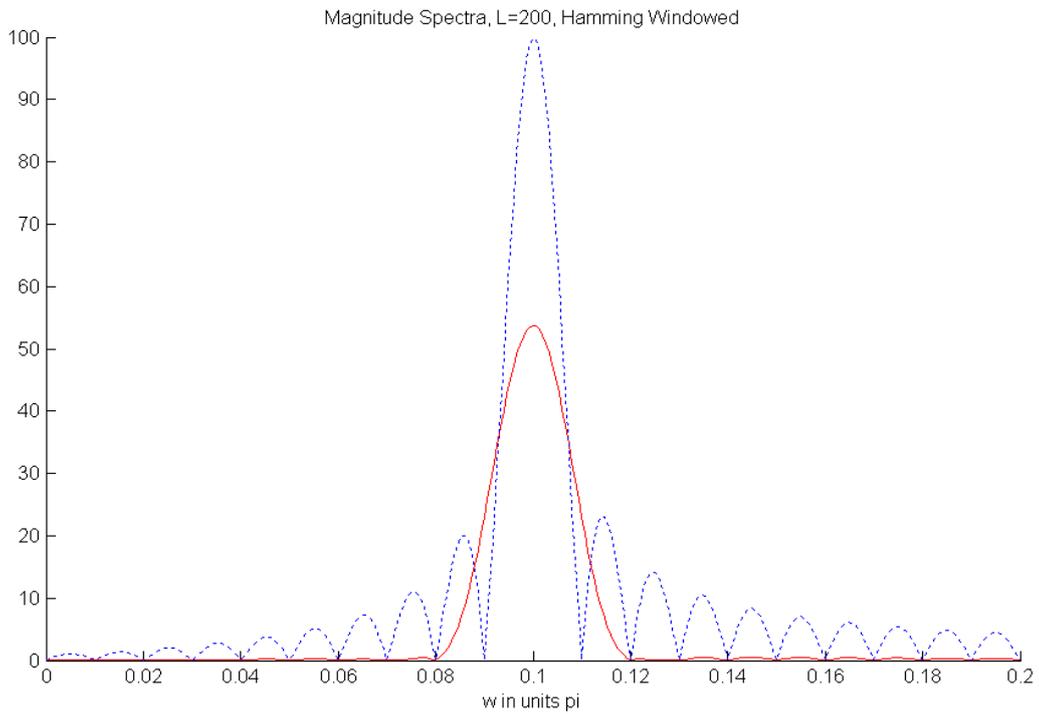
10.2.2

10.2.3

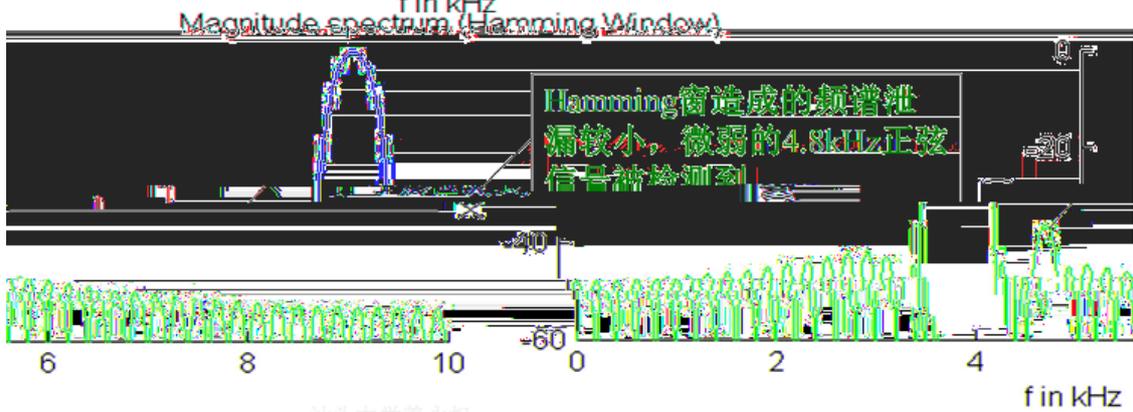
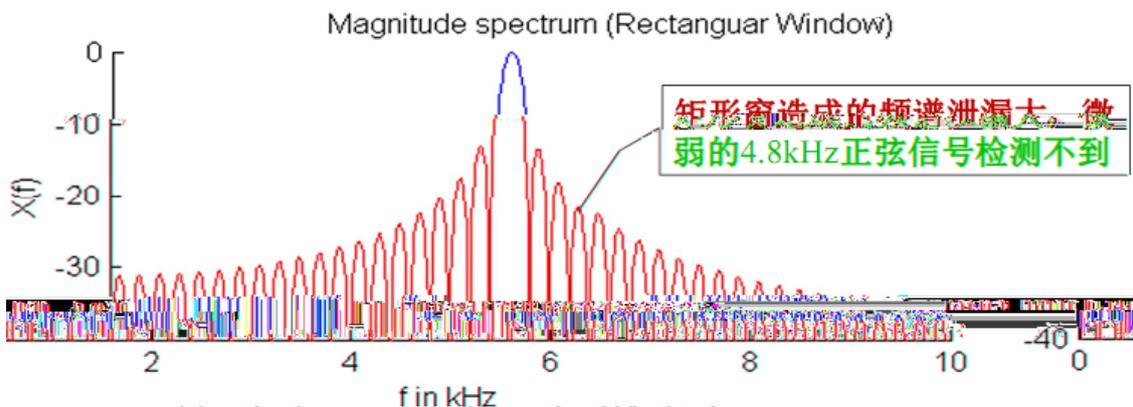
10.2.4

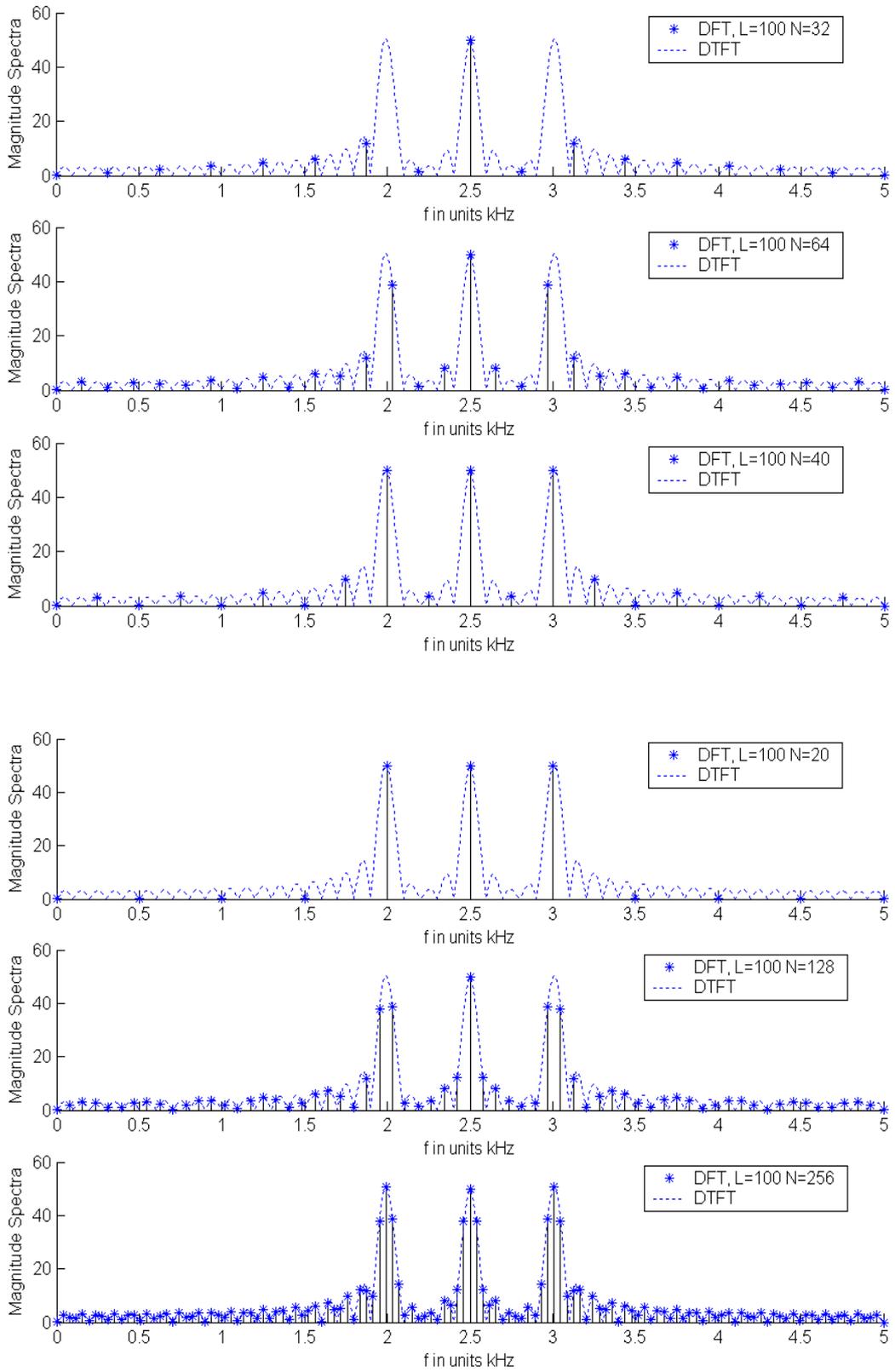
10.3





### 频谱泄露的危害：小幅度频率分量无法检测到





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电子工程系

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1

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2

2.1

- CFT

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$\frac{3}{4}$





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:

1		0-10	
2		0-10	
3		0-10	
4	DFT FFT	0-15	
5		0-15	
6		0-15	
7		0-20	
8		0-5	
		0-100	



**2.**

**2.1**

- 1) LP HP BP BS
- 2) 2.1
- 3) Hamming
- 4) Hamming FIR
- 5) Hamming FIR
- 6) Kaiser
- 7) Kaiser FIR
- 8)
- 9)
- 10) Hamming
- 11) Hamming FIR
- 12)

**2.2 CDIO**

<b>1</b>	<b>1.1</b>		3	
			3	FIR
	<b>1.2</b>	IDTFT	4	
		IDFT	4	
	<b>1.3</b>	Kaiser	3	Kaiser
<b>2</b>	<b>2.1</b>	2.1.1	3	
		2.1.3	3	
		2.1.5	3	Hamming FIR
	<b>2.2</b>	2.2.2	2	

	2.3	2.2.4	3	Hamming FIR
		2.3.1	2	
		2.3.3	3	Kaiser
	2.4	2.3.4	3	
		2.4.2	2	
		2.4.4	3	FIR
		2.4.6	2	
	2.5	2.4.7	2	
		2.5.1	3	
	3	3.1	3.1.1	2
3.1.2			2	
3.1.5			2	
3.2		3.2.3	3	
		3.2.4	3	PPT
		3.2.5	3	
		3.2.6	2	2-3 10-15
3.3		3.3.1	1	
4  (CDIO)		4.3	4.3.1	2
	4.3.2		2	
	4.3.3		2	
	4.4	4.4.1	3	
		4.4.3	3	
	4.5	4.5.1	3	
4.5.3		3		
4.6	4.6.1	3		
	4.6.4	3	2-3 10-15	

				2-3
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3.

3.1

■ 3-5

3.2

■

3.3

■

3.4

■

4.

■ —FIR

—

5.

5.1

■

6.

6.1

■

6.2

■

6.3

■

6.4

■ —FIR

—

6.5



6.6

7.

7.1

7.1.1

7.1.2

7.2

7.2.1

7.2.1.1

7.2.1.2



7.2.2



7.3 ( )

7.3.1



7.3.2



7.3.3 ( )

7.4 ( )

7.4.1



7.4.2



7.4.3



7.4.5



7.5 ( Java Matlab Labview )  
■ Matlab

8.

8.1

■

8.2

8.2.1

■

8.2.2

■

8.2.3

■

8.3

8.4 ( )

8.4.1

8.4.2

9.



**10.**

10.1

10.2

10.2.1

10.2.2

10.2.3

10.2.4

10.3

—FIR

—

\_\_\_\_\_

FIR

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:

电子工程系

\_\_\_\_\_ :

1

➤ FIR

➤

➤

2

FIR

2.1

**FIR**

➤

FIR

➤

➤

➤

Kaiser

Equation

2.2

**FIR**

➤

➤

➤

3

3.1

**FIR**

➤

LP HP BP BS

➤

2.1

➤

Hamming

➤

Hamming FIR

➤

Hamming FIR

➤

Kaiser

➤

Kaiser FIR

3.2

**FIR**

➤



Hamming



Hamming    FIR



4



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:

# —FIR

—

⋮ \_\_\_\_\_  
 ⋮ \_\_\_\_\_

1		0-10	
2	FIR	0-10	
3	FIR	0-10	
4	FIR	0-15	
5	FIR	0-10	
6	FIR	0-20	
7	FIR	0-20	
8		0-5	
		0-100	

# —XX XX IIR

## 1.

### 1.1

IIR DSP IIR

### 1.2

IIR

### 1.3

IIR

### 1.4

IIR DSP IIR IIR IIR

### 1.5

#### 1)

Kaiser FIR FIR

#### 2)

Kaiser FIR

#### 3)

2-3 2-3 10-15

**2.**

**2.1**

- 1) XX XX IIR
- 2) XX
- 3) XX
- 4) XX
- 5) XX XX IIR
- 6) XX XX IIR
- 7)

**2.2 CDIO**

<b>1</b>	<b>1.1</b>		3	
			3	FIR
	<b>1.2</b>	IDTFT	4	
		IDFT	4	
	<b>1.3</b>	Kaiser	3	Kaiser
<b>2</b>	<b>2.1</b>	2.1.1	3	
		2.1.3	3	
		2.1.5	3	Hamming FIR
		2.2.2	2	
	<b>2.2</b>	2.2.4	3	Hamming FIR
		2.3.1	2	
	<b>2.3</b>	2.3.3	3	Kaiser



		2.3.4	3	
	<b>2.4</b>	2.4.2	2	
		2.4.4	3	FIR
		2.4.6	2	
		2.4.7	2	
	<b>2.5</b>	2.5.1	3	
<b>3</b>	<b>3.1</b>	3.1.1	2	3-5
		3.1.2	2	
		3.1.5	2	
	<b>3.2</b>	3.2.3	3	
		3.2.4	3	PPT
		3.2.5	3	
		3.2.6	2	2-3 10-15
	<b>3.3</b>	3.3.1	1	
<b>4</b>  <b>(CDIO)</b>	<b>4.3</b>	4.3.1	2	
		4.3.2	2	
		4.3.3	2	
	<b>4.4</b>	4.4.1	3	
		4.4.3	3	
	<b>4.5</b>	4.5.1	3	
		4.5.3	3	
	<b>4.6</b>	4.6.1	3	
		4.6.4	3	2-3 10-15 2-3

3.

3.1

■ 3-5

3.2

■

3.3

■

3.4

■

4.

■ —XX XX IIR —

5.

5.1

■

6.

6.1

■

6.2

■

6.3

■

6.4

■ —XX XX IIR —

6.5

■

6.6

7.

7.1

7.1.1

7.1.2

7.2

7.2.1

7.2.1.1

7.2.1.2

■

7.2.2

■

7.3 ( )

7.3.1

■

■

7.3.2

■

7.3.3 ( )

7.4 ( )

7.4.1

■

7.4.2

■

7.4.3

■

7.4.5

■

7.5 ( Java Matlab Labview )

■ Matlab

**8.**

8.1



8.2

8.2.1



8.2.2



8.2.3



8.3

8.4

( )

8.4.1

8.4.2

**9.**

**10.**

10.1

10.2

10.2.1

10.2.2

10.2.3

10.2.4

10.3

—XX XX IIR

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\_\_\_\_\_  
XX XX IIR

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电子工程系

\_\_\_\_\_  
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\_\_\_\_\_

1

➤ IIR

➤

➤

2 IIR

2.1

IIR

➤ IIR

➤

: s-plane z-plane

➤

➤

Equation

2.2 XX

➤ XX

➤ XX

➤ XX

➤

➤ XX XX IIR

3

➤ XX XX IIR

➤ 2.2 XX

➤ XX

➤ XX

➤ XX XX IIR

➤ XX XX IIR

➤



:

:



—XX XX IIR  
—

: \_\_\_\_\_  
: \_\_\_\_\_

1		0-10	
2	IIR	0-10	
3	FIR	0-10	
4		0-15	
5		0-10	
6		0-40	
8		0-5	
		0-100	