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The Undergraduate Program in Standardization at China Jiliang University(CJLU)

Prof. Song Mingshun



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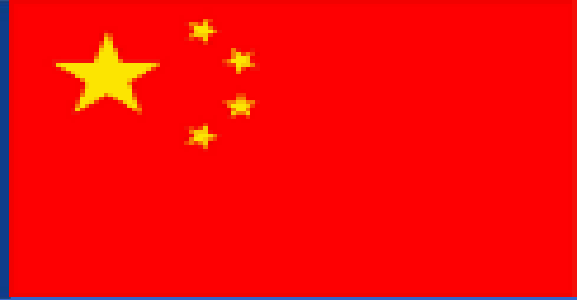
Our Campus





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1. Recruitment

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Total Number of Students	Number of undergraduate students in the past years										
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1276	41	117	79	125	100	75	167	77	164	191	160

1276



2. Objectives

General objectives of this program are to cultivate undergraduate skills in basic knowledge of economics, management, law, engineering and technology, standardization theories and methods, and to develop the ability to draft, manage and implement standards.



3. Courses

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The Catalogue of Curriculums	Name of Course	Study Hours
Basic Courses	College English	172
	Advanced Mathematics	172
	Probability and Statistics	54
	Linear Algebra	54
Engineering and Technology	Physics	72
	Chemistry	36
	Electrotechnics and Electronics	54
	Mechanical Design	54
	Measurement Technology	36
	Engineering Cartography	36



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Economics and Management	Microeconomics	54
	Macroeconomics	36
	Theory of International Trade	36
	Management Theory	36
	Marketing	36
	Financial Management	36
	E-Business	36
Fundamental Courses Related to Standardization	Metrology	36
	Evaluation of Measurement Uncertainty	36
	Reliability Engineering	36
	Statistical Processing Control	36
	Design of Experiment	28
	Quality Management	54



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Theory and Methods of Standardization	Standardization Principle	36
	International Standardization	36
	WTO/TBT-SPS and Technical Barriers to Trade	36
	ISO9000 Family Standards and Quality Certification	54
	Environmental Management System Certification and ISO 14000 Standards	28
	ILIAS E-Learning Platform	16
Field Practice of Standardization	Electrotechnics & Electronics Practice	2 weeks
	Practice of Metal	2 weeks
	Standardization Internship	4 weeks
	Pre-graduation Project about Standardization	13 weeks



4. Measures

- To provide standardization internships for students





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Figure: Mr. Liu Pingjun, the President of SAC, are giving speech about standardization strategy at CJLU



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● The License of Internal Auditor

The senior students are authorized to take part in the examination of the internal auditor of ISO 9001 standard.



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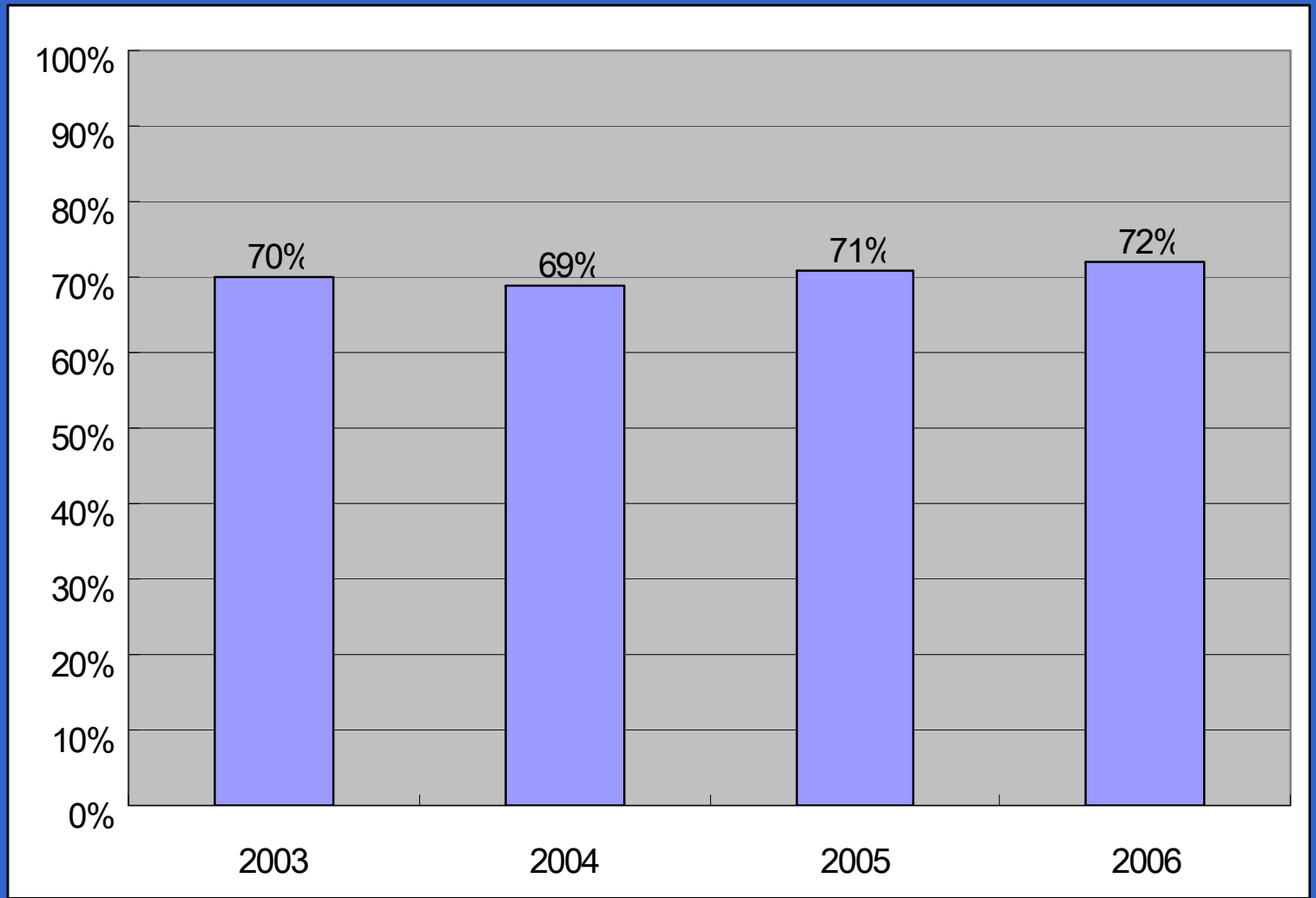


Figure : the rates of our graduates obtain the license of internal auditor from 2003 to 2006



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● QC groups

We have set up 8 QC groups which are responsible for controlling and improving the teaching quality of 8 courses related to standardization respectively.



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证书

中国计量学院
“质量管理”精品课程QC小组

荣获 2006 年度浙江省
优秀质量管理小组成果发
表会 一等奖

浙江省质量协会
二〇〇六年六月

Figure: the Award of The Excellent QC Group



E-Learning platforms on standardization

The screenshot shows a web browser displaying an E-Learning platform. The main content area features a presentation slide titled "第三章 常用质量管理统计技术" (Chapter 3: Common Quality Management Statistical Techniques). The slide lists the following sections:

- 第一节统计方法基础知识 ✓
- 第二节质量管理老七种工具(六种) ✓
- 第三节质量管理新七种工具
- 第四节QCC (品管圈) 案例

The interface includes a navigation menu on the left with links for "前言", "第一节 质量概念", "第一节 全面质量管理", "第二节 质量管理的作用", "第二节 全面质量管理", "常用质量管理统计", "控制图", "过程能力分析", "检验(1)", "检验(2)", "规则(1)", and "规则(2)". A table of contents on the left lists the following items:

- 1 第三章 常用质量管理统计技术
- 2 幻灯片2
- 3 1、什么是统计方法
- 4 2、统计方法的性质
- 5 3、统计方法的用途
- 6 二、产品质量波动
- 7 1、正常波动
- 8 2、异常波动
- 9 三、统计数据及其分类
- 10 1、计量数据
- 11 2、计数数据
- 12 四、总体与样本
- 13 幻灯片13
- 14 幻灯片14
- 15 第二节 质量管理工具
- 16 一、调查表
- 17 2、调查表的种类

The platform also displays a course title "《质量管理》" and a lecturer "宋明顺". The interface includes a search bar, navigation buttons, and a taskbar at the bottom showing the system time as 19:04.

Figure: The front page of the E-Learning platform about the standardization and quality management



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ILIAS E-Lernen an der HSU HH support.elernen@hsu-hh.de Logged in as prof. song mingshun Logout

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01 Fundamentals of Standards and Standardization [Remove from desktop](#)
Teaching Unit, MC-Test, Literature

02 History of Standards and Standardization - an Introduction [Add to desktop](#)
Teaching Unit, MC-Test, Literature

03 Economic Aspects of Standardization [Add to desktop](#)
Teaching Unit, MC-Test, Literature

04 Development of Standards [Remove from desktop](#)
Teaching Unit, MC-Test, Literature

05 Product Development and Design [Add to desktop](#)
Teaching Unit, MC-Test, Literature

06 Standardisation inside a company a Strategic Perspective [Add to desktop](#)
Teaching Unit, MC-Test, Literature

07 External Standardization as a Company Strategy [Add to desktop](#)
Teaching Unit, MC-Test, Literature

08 Standardization and Innovation [Add to desktop](#)
Teaching Unit, MC-Test, Literature

09 International Standardization [Add to desktop](#)
Teaching Unit, MC-Test, Literature

10 Standardization and International Law [Add to desktop](#)

Figure: The front page of the E-Learning platform about the standardization in companies and markets



To set up a quality management system based on the ISO9001:2000 standard.

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Figure: the teaching quality management system is certificated based on ISO9001:2000



5. Employment

- More than 800 students have graduated from the undergraduate program in standardization since 2000, and about 95 percent of them are working in standardization jobs.



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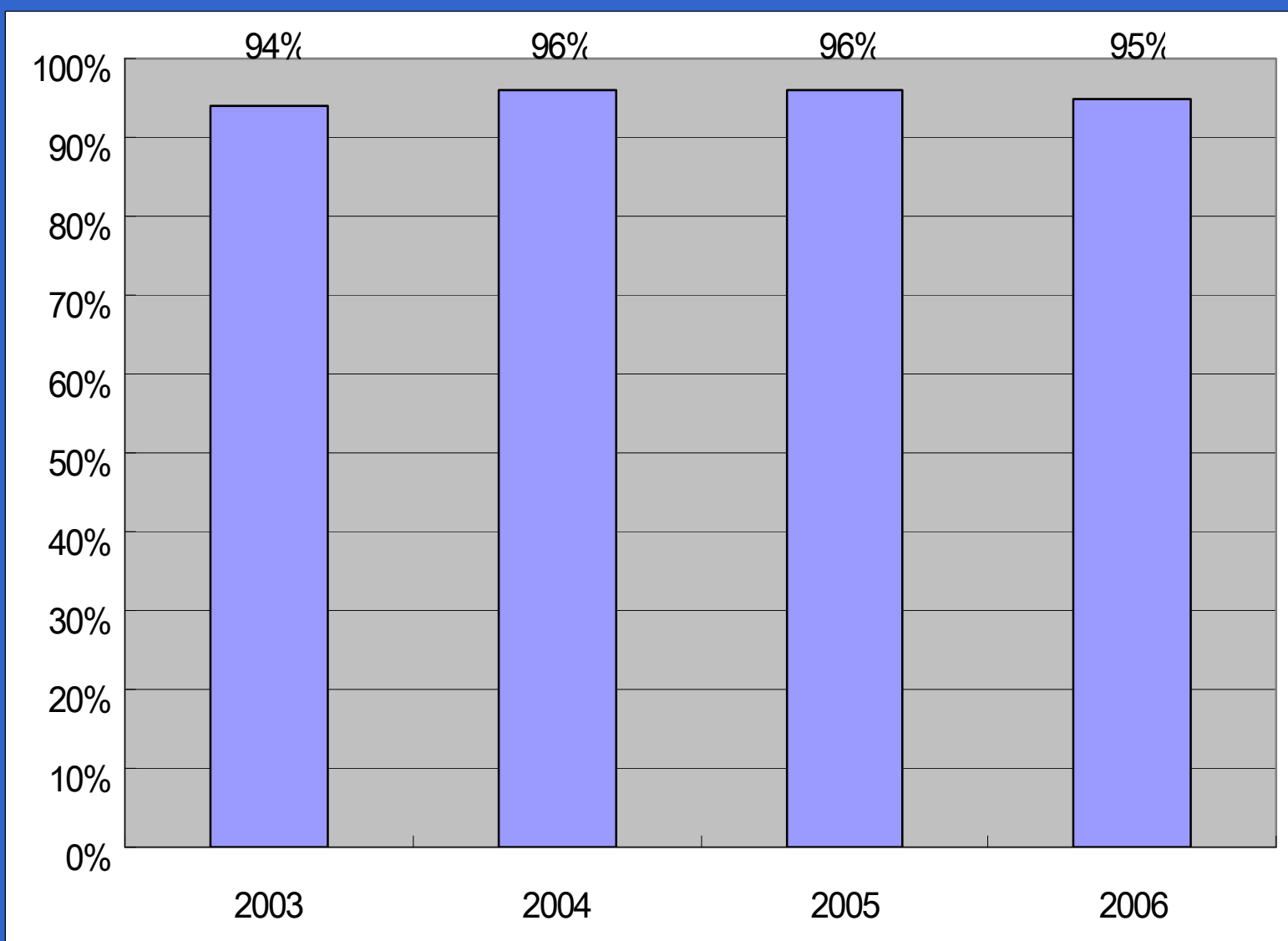


Figure: the rates of the graduated students working in standardization jobs



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The customer satisfaction about graduates

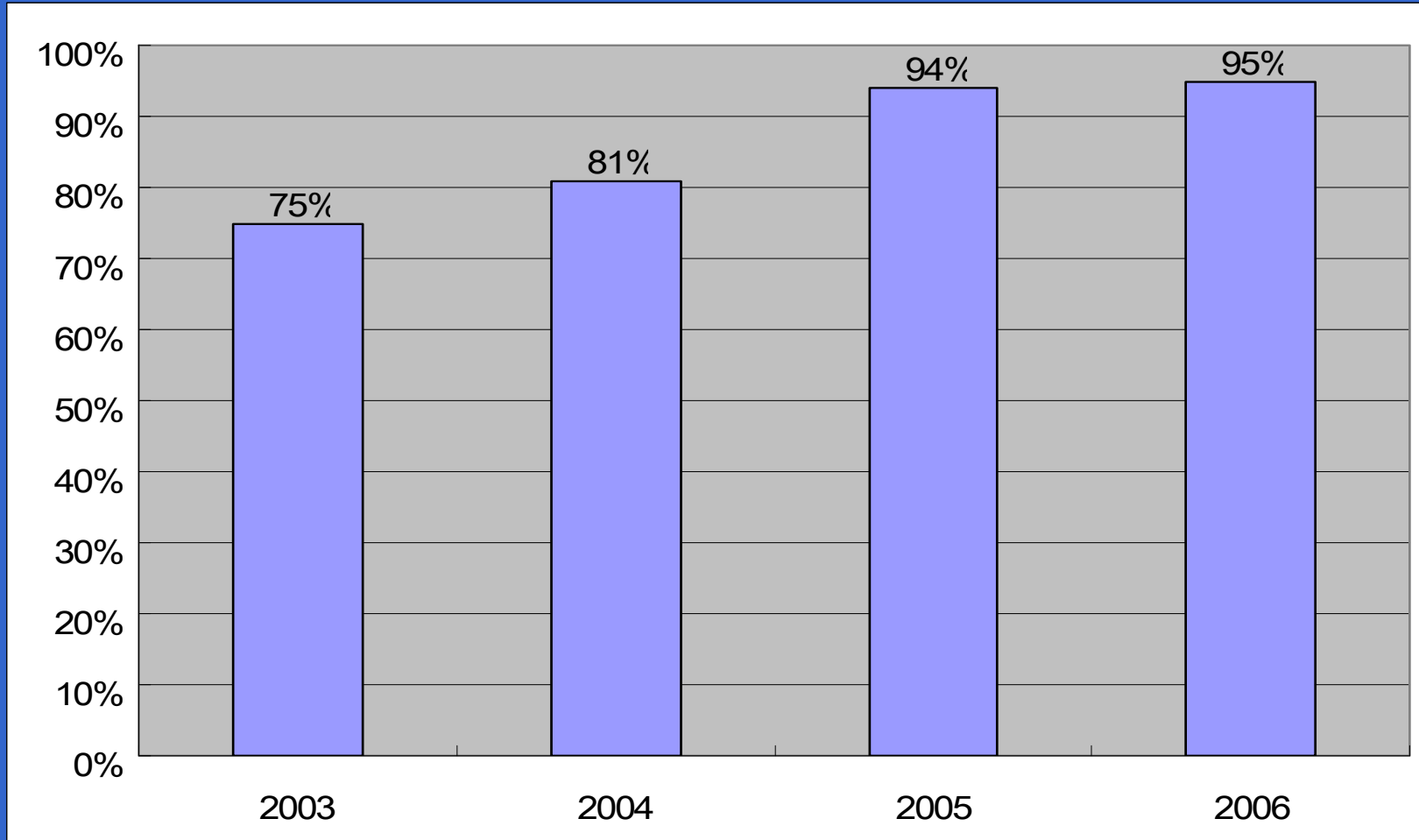


Figure: the customer satisfaction index from 2003 to 2006



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6. Others

- The scientific activities of student in standardization



Figure: the State “Challenge Cup” College Student Design Contest for the New Century



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● The influence in the international community



Figure: Prof. Song is introducing the program at the International Committee on Education about Standardization (ICES)



Contribution to the standardization education at home

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Figure: the published books related to standardization



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Figure: our teacher is giving the course: “standardization Principle” for the students of eight universities in Hangzhou.



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High visibility in the medias



Figure: Newspapers reporting our standardization education



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Future Developments

- to Improve the degree of internationalization of higher education in standardization;
- to Improve the standardization curriculum system and promote the curriculum to other domestic universities widely;
- to develop the graduate program in standardization actively.



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Thank You for Your Attention!

谢 谢!

