# 数学分析与建模(二) 教学大纲

# $\begin{array}{c} \textbf{Mathematical Analysis and} \\ \textbf{Modeling(II)} \end{array} \textbf{Subject Syllabus} \\$

## 一、课程信息 Subject Information

课程编号: Subject ID	3100311002	开课学期: Semester	2		
课程分类:	专业教育 PA	所属课群:	专业基础 MF		
Category		Section			
课程学分:	6	总学时/周:	96/16		
Credit Points 理论学时:		Total Hours/Weeks 实验学时:			
连化字的: LECT. Hours	96	大巡子町: EXP. Hours	0		
PBL 学时:		实践学时/周:			
PBL Hours	0	PRAC. Hours/Weeks	0		
开课学院: College	东北大学 悉尼智能科技学院 Sydney Smart Technology College Northeastern University	适用专业: Stream	应用统计学 AS		
课程属性:	必修 Compulsory	课程模式: Mode	互认 EQV		
中方课程协调人:	王晓敏	成绩记载方式:	百分制 Marks		
NEU Coordinator	Wang Xiaomin	Result Type	自力型 Warks		
先修课程: Requisites	数学分析与建模(一)Mathematical Analysis and Modeling (I)				
英文参考教材: EN Textbooks	Ping, Advanced Mathe	Mo Huixia, Li Xiaohua, Yuan Jianhua, Yuan Jianhua, Ai Wenbao, Zhu Ping, Advanced Mathematics (II), 2nd Edition, Beijing University of Posts and Telecommunications Press, 2018.			
中文参考教材: CN Textbooks	社, 2006.	学分析简明教程(第二版)等数学(第七版)下册,高			
教学资源: Resources	https://sstc.cloudcampu	ıs.com.cn/course/view.ph	p?id=9		
课程负责人(撰写人): Subject Director	王晓敏 Wang Xiaomin	提交日期: Submitted Date	3/3/2023		
任课教师(含负责人): Taught by	王晓敏、刘艳杰 Wang Xiaomin, Liu Yanjie				
审核人: Checked by	韩鹏	批准人: Approved by	史闻博		
批准日期: Approved Date 3/6/2023					

## 二、教学目标 Subject Learning Objectives (SLOs)

注: 毕业要求及指标点可参照悉尼学院本科生培养方案,可根据实际情况增减行数

Note: GA and index can be referred from undergraduate program in SSTC website. Please add/reduce lines based on subject.

Note. GA and muex c	1	i from undergraduate program in SSTC website. Please add/reduce lines based on subject.					
	数学分析	所与建模是理工科专业课程的基础,通过学习极限、微分、积分等					
	重要概念	念,为学生学习其它学科以至于专业课程打下扎实基础。培养学生					
	较强的运	动手能力,以及思维的逻辑性、严谨性、创新性,以及利用数学原					
	理和方法	去解决实际问题的意识、兴趣和能力。					
	培养学生	上掌握高等数学的基本理论和方法,尤其是思维方式,掌握知识技					
		寸发展创造能力。					
整体目标:	Mathematical analysis and modeling is the foundation of science and						
Overall		ing courses. By learning the important concepts of limit, differential					
Objective		gral, it can lay a solid foundation for students to learn other subjects					
Objective	· ·	professional courses. To cultivate students' strong practical ability,					
		rigorous and innovative thinking, as well as the consciousness, interest					
	_						
		ity of solving practical problems by using mathematical principles and					
		. Cultivate students to master the basic theories and methods of higher					
		atics, especially the way of thinking, master knowledge and skills, and					
	develop	creative ability at the same time.					
		具有扎实的专业基础与学科特长,系统掌握统计与数据分析、智					
		能仿真建模技术、量化管理优化技术、试验设计与分析、项目管					
		理与决策及其相关领域的专门知识与技能。					
	1-1	A solid professional foundation and competency, systematical					
	1-1	mastery of the specialized knowledge and skills in statistics and data					
		analysis, intelligent simulation modeling technology, quantitative					
		management optimization technology, experimental design and					
		analysis, project management and decision-making.					
		具有扎实的专业基础与学科特长,系统掌握信息通信系统、项目					
		管理与决策及其相关领域专门知识与技能。					
		Excellent engineering literacy, outstanding practical skills in					
		information technology, and capable of creatively solving complex					
(1)专业目标:	1-2	engineering problems in information and communication and related					
Professional		fields through scientific and technological theories and engineering					
Ability		practical methods, as well as the ability of doing academic					
Ability							
		cutting-edge project research.  具有扎实的专业基础与学科特长,系统掌握大数据与人工智能系					
		统、项目管理与决策及其相关领域专门知识与技能。					
		Excellent engineering literacy, outstanding practical skills in					
	1-3	information technology, and capable of creatively solving complex					
		engineering problems in computer science and related fields through					
		scientific and technological theories and engineering practical					
		methods, as well as the ability of doing academic cutting-edge					
		project research.					
		具有卓越的技术素养和突出的应用统计学实践能力,具备在应用					
	1-4	统计学及其相关领域通过科学技术理论和方法创造性的解决复					
		杂问题、从事学术前沿问题研究的能力。					
L	L						

(2)德育目标:	2-1	Excellent technical literacy, outstanding practical statistics, and capable of creatively solving comproblems in applied statistics and related fields that technological theories and engineering practical rethe ability of doing academic cutting-edge project 理解高等数学理论知识对于刻画工程实践问题 Understand the significant meanings of the advanced depicting the practical engineering problems.	mplex engineering rough scientific and nethods, as well as research.
Essential Quality	2-2	认知当前全球,数学理论的发展对提升中国工程竞争力的重要意义。 Understand the technology development, key technology	niques and the core
	课程教学	:目标与毕业要求的对应关系 Matrix of GA & SL -	Os
毕业要求	GA	指标点 GA Index	教学目标 SLOs
specialization	能够将 学和专业 是复杂实 edge of natural amentals gineering to the complex	指标点 1-1: 具有较强的演绎推理能力、准确计算能力、分析归纳能力、抽象思维能力,掌握数学、自然科学和相关专业知识,并使用其建立正确的数学、物理学等模型以解释复杂实际问题。 Capable of deductive reasoning, accurate calculation, analysis and induction and abstract thinking. Establishing correct mathematical and physical models with the professional knowledge of mathematics, natural science, etc. to solve complex practical problems.	1-1, 1-2
2、问题分析: 助应用统计学 原理、方法和 别、表达、并说 研究分析复杂 题,以获得有效	能够借 之的基本 手段,识 通过文献 实际问	2-1 能够应用数学、自然科学和工程学的基本原理、方法和手段,分析、识别、表达本专业相关的复杂工程问题。 Capable of analyzing, identifying and elaborating complex practical problems related to this major with the applying of the basic principles of Applied Statistics.	1-2, 1-3, 2-1
research literat analyze practical	complex problems stantiated	2-2 能够应用数学、自然科学和工程学的基本原理、方法和手段,针对实际复杂工程问题设计针对性的技术方案,并综合运用文献、科学基座和技术手段予以解决。 Capable of drawing on the basic principles of applied statistics to design targeted schemes for complex practical problems, and using literature, scientific theories and technical means to solve them.	1-3, 1-4, 2-1, 2-2

# 三、教学内容 Content (Topics)

注: 以中英文填写,各部分内容的表格可根据实际知识单元数量进行复制、扩展或缩减

Note: Filled in both CN and EN, extend or reduce based on the actual numbers of knowledge unit 理论教学 Lecture

			<u> </u>		
知识单元序号:	1		支撑教学目标:	1-1, 1-2, 1-3, 1-4	
Knowledge Unit No.	1		SLOs Supported	1-1, 1-2, 1-3, 1-4	
知识单元名称	实数连续性				
Unit Title		Continuity of Real Numbers			
	实数连续性的	内等价描述	述		
	Equivalent description of continuity of real numbers				
	实数闭区间的	实数闭区间的致密性			
知识点:			intervals of real numbers	<b>S</b>	
Knowledge Delivery	实数的完备性				
	Completeness	s of real n	umbers		
	闭区间上连续	表面粉的	<b>坐</b> 居		
			由灰 Is functions on closed into	ervale	
	1 Toperties of V	1			
	了解:		的上确界、下确界、覆道		
	Recognize	Concepts of supremum, infimum and cover of real			
		number sets			
			理、单调有界原理、有阿克思、		
	理解:	理、致密性定理、柯西收敛原理的相互等价性			
		The mutual equivalence of supremum and infimum principle, monotone bounded principle, finite covering			
学习目标:	Understand	theorem, nested interval theorem, compactness theorem			
Learning Objectives		and Cauchy convergence principle			
			理相互等价的证明思路		
			nd methods for proving		
	掌握:	above th		the equivalence of the	
	Master		上连续函数的性质的证明	明思路和方法	
	1465001		ad methods for proving th		
			ous functions on closed in		
	2-2 认知当前		女学理论的发展对提升中		
   徳育目标	心竞争力的重			<b>自土</b> 压八灰以小人似	
Moral Objectives			logy development, key to	echniques and the core	
2.222.2 2.332.4 0.8			area of the China enginee	_	
重点:	确界定理、单调有界原理、有限覆盖定理				
Key Points	supremum and infimum theorem, monotone bounded principle, finite covering theorem				
难点:	上述定理相互等价的证明思路和方法				
雅点: Focal points					
rocai points	Ideas and methods for proving the equivalence of the above theorems				

知识单元序号:	2		支撑教学目标:	11 12 12 14	
Knowledge Unit No.	2		SLOs Supported	1-1, 1-2, 1-3, 1-4	
知识单元名称			数项级数		
Unit Title		Series with Constant Terms			
	数项级数的收	女敛与发i	散		
	Convergence and divergence of a series with constant terms				
	级数的性质 Properties of series				
	数项级数收敛的必要条件				
知识点:	A necessary c	ondition	for convergence of a serie	s with constant terms	
Knowledge Delivery	正项级数收敛	女性的判:	别法		
	Convergence	tests for s	series with positive terms		
	柯西收敛原理		convergence principle		
	一般项级数的收敛性判别法				
	General series and tests for convergence				
	】 了解:	数项级	数收敛、发散以及收敛约	及数的和的概念	
	Recognize	Concept of convergence, divergence of series and the			
		sum of	convergent series		
		级数的	性质 Properties of series		
		狄利克雷判别法和阿贝尔判别法			
学习目标:	理解:	理解: Dirichlet test and Abel test			
Learning Objectives	Understand				
		Similarities and differences between infinite series and			
		_	zed integral		
	筝獾: Master	正项级	数收敛性的判别法		
		· ·	gence tests for series with	positive terms	
		l .	茨判别法 Leibniz test		
   徳育目标			伦知识对于刻画工程实践		
Moral Objectives		_	cant meanings of the adv	vanced mathematics in	
	1 0	•	engineering problems.		
重点:	正项级数收敛				
Key Points	Convergence Tests for Series with Positive Terms				
	莱布尼茨判别	训法 Leibi	niz test		
难点:	柯西收敛原理 Cauchy convergence principle				
Focal points	17日代政府在 Cauchy convergence principle				
知识单元序号:			支撑教学目标:		
Knowledge Unit No.	3		又撑叙字目标: SLOs Supported	1-1, 1-2, 1-3, 1-4	
			M数项级数		
知识单元名称			四处火纵刻		

知识单元序号:	3	支撑教学目标:	11 12 12 14		
Knowledge Unit No.	3	SLOs Supported	1-1, 1-2, 1-3, 1-4		
知识单元名称	函数项级数				
Unit Title	Functional Series				
函数项级数的收敛域与和函数					
	Convergence domain and sum function of functional series				
知识点:	函数项级数的一致收敛的概念				
Knowledge Delivery	Concept of uniform convergence of functional series				
	一致收敛函数项级数的性质				
	Properties of uniformly convergent functional series				

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	函数项级数的一致收敛性判别法					
	Uniform convergence tests for functional series					
	幂级数及其收敛半径、收敛域					
	Power series,	Power series, radius of convergence domain of convergence of power				
	series					
	函数可展开为	为泰勒级数的充分必要条件				
	Necessary and	Necessary and sufficient conditions for the function to be expanded				
	into Taylor se	into Taylor series				
	几个基本初等	等函数的麦克劳林展开式				
	Maclaurin exp	pansion of some basic elementary functions				
	傅立叶级数 I	Fourier series				
		函数项级数的收敛域与和函数的概念				
	】 了解:	Concepts of convergence domain and sum function				
		of functional series				
	Recognize	傅立叶级数的概念和狄利柯雷定理				
		Concept of Fourier series and Dirichlet theorem				
		函数项级数的一致收敛的概念				
	理解:	Concept of uniform convergence of functional series				
W1 F.	Understand	函数展开成傅立叶级数				
		Find the Fourier series of a function				
学习目标:		函数项级数一致收敛性判别法				
Learning Objectives		Uniform convergence tests for functional series				
		一致收敛函数项级数的和函数的分析性质				
		Analytical properties of the sum function of a uniformly				
	掌握:	convergent series with function terms				
	Master	幂级数收敛半径及收敛域的求法				
		Methods for finding the convergence radius and				
		convergence region of power series				
		基本初等函数的麦克劳林展开式				
		Maclaurin expansion of basic elementary functions				
	2-2 认知当前	了全球,数学理论的发展对提升中国工程关键技术及核				
德育目标	心竞争力的重					
Moral Objectives	Understand th	ne technology development, key techniques and the core				
		ess in the area of the China engineering in the world				
	_	—————————————————————————————————————				
重点:		vergence test for functional series				
Key Points	函数展开成幂					
	Finding the	power series of a function				
难点:	函数项级数的一致收敛性判别法					
Focal points		regence tests for functional series				
1	<u> </u>					

知识单元序号:	1	支撑教学目标:	11 12 12 14	
Knowledge Unit No.	4	SLOs Supported	1-1, 1-2, 1-3, 1-4	
知识单元名称	向量与空间解析几何			
Unit Title	Vectors and Solid Analytic Geometry			

	向量 Vectors			
	向量的乘积 Products of vectors			
知识点:	平面与空间直	直线的方程		
Knowledge Delivery	Equations for	r planes and lines in space		
	曲面与空间曲	由线		
	Surfaces and	space curves		
	了解:	曲面和空间曲线方程的概念		
	Recognize	Concepts of surfaces and space curves		
   学习目标:	理解:	向量的数量积 Scalar product of two vectors		
	Understand	向量的向量积 Vector product of two vectors		
Learning Objectives	掌握: Master	平面方程与空间直线方程的求法		
		Finding the equations of planes and lines in space		
		常用二次曲面 Common quadric surface		
	2-2 认知当前全球,数学理论的发展对提升中国工程关键技术及核			
德育目标	心竞争力的重要意义。			
Moral Objectives	Understand the technology development, key techniques and the core			
	competitiveness in the area of the China engineering in the world.			
重点:	平面方程与空间直线方程的求法			
Key Points	Finding the equations of planes and lines in space			
难点:	曲面与空间曲线的画法			
Focal points	Drawing of su	urface and space curve		

知识单元序号:	5		支撑教学目标:	1-1, 1-2, 1-3, 1-4	
Knowledge Unit No.			SLOs Supported	11, 12, 13, 11	
知识单元名称	多元函数微分法及其应用				
Unit Title	Differential (	Calculus	of Multi-variable Functio	ns and its Application	
	多元函数的极	限与连续	<b>卖性</b>		
	Limit and cont	tinuity of	multi-variable functions		
	偏导数与全微	女分			
	Partial derivat	tives and	l total differentials		
知识点: Knowledge Delivery	多元函数的求导法则				
	Derivation rules of multi-variable functions				
	多元函数微分学的几何应用				
Knowledge Delivery	Geometric application of differential calculus of multi-variable				
	functions				
	方向导数和梯度				
	Directional derivatives and the gradient				
	多元函数的极值与最值				
	Extreme value	e、 maxir	na and minima of mult	ti-variable functions	
		多元函	数的极限与连续的概念-	与性质	
		Concept	ts and properties of lin	mit and continuity of	
学习目标:	了解:	multi-va	riable functions		
Learning Objectives	Recognize	偏导数	和全微分的概念		
		Concept	ts of partial derivatives a	nd total differentials of	
		multi-va	riable functions		
·	· · · · · · · · · · · · · · · · · · ·				

		全微分形式的不变性			
		Invariance of the total differential form			
	ተጠ ይህ	隐函数的微分法			
	理解:	Differentiation of implicit functions			
	Understand	空间曲线的切线与法平面、曲面的切平面、法线			
		Tangent line and normal plane to a space curve.			
		Tangent planes and normal lines to a surface			
	_	偏导数和全微分的求法			
	掌握:	Finding the partial derivative and total differential 二元函数的极值和条件极值			
	Master	Finding local extreme values and constrained extreme			
		values of a function of two variables			
	2-2 认知当前	2-2 认知当前全球,数学理论的发展对提升中国工程关键技术及核			
德育目标	心竞争力的重要意义。				
Moral Objectives	Understand the technology development, key techniques and the core				
	competitivene	competitiveness in the area of the China engineering in the world.			
	偏导数和全微	偏导数和全微分的求法			
重点:		artial derivative and total differential 及值和条件极值			
Key Points	Finding local	extreme values and constrained extreme values of a			
	function of tw	vo variables			
	多元函数极限	艮的证明及求法			
难点:	Proof and solu	ution of the limit of multi-variable functions			
Focal points	多元函数的高	多元函数的高阶偏导数			
_	Higher-order partial derivatives of multi-variable functions				

知识单元序号:	6		支撑教学目标:	1-1, 1-2,	1_3 . 1_	_1	
Knowledge Unit No.	· ·		SLOs Supported	1-1, 1-2,	1-3, 1-	т	
知识单元名称			重积分				
Unit Title			Multiple Integrals				
	重积分的概念	念与性质					
	Concepts and	propertie	es of multiple integrals				
	重积分的计算	草					
知识点:	Calculation of	of multipl	le integrals				
Knowledge Delivery	重积分的应用	重积分的应用					
	Applications of multiple integrals						
	含参变量的和	只分					
	Integrals with	parameti	ric variables				
	了解:	重积分	的概念				
	Recognize	Concep	ts of multiple integrals				
	理解:	重积分	的性质				
学习目标:	Understand	Understand Properties of multiple integrals					
Learning Objectives		二重积	分的计算				
	掌握:	掌握: Calculation of double integrals					
	Master 三重积分的计算						
		Calculation of triple integrals					

重点: Key Points	Double integrals in rectangular and polar coordinates 直角坐标、柱坐标、球坐标下三重积分的计算 Triple integrals in rectangular、cylindrical and spherical coordinates
重占.	直角坐标、极坐标下二重积分的计算 Double integrals in rectangular and polar coordinates
	competitiveness in the area of the China engineering in the world.
Moral Objectives	Understand the technology development, key techniques and the core
德育目标	心竞争力的重要意义。
	2-2 认知当前全球,数学理论的发展对提升中国工程关键技术及核

知识单元序号:	7	支撑教学目标: 1-1, 1-2, 1-3, 1-4			
Knowledge Unit No.	SLOs Supported				
知识单元名称	曲线积分与曲面积分				
Unit Title	Line Integrals and Surface Integrals				
	对弧长的曲线积分、对坐标的曲线积分				
	Line integrals with respect to arc length. Line integrals with respect to				
	coordinates				
知识点:	格林公式 Green's formula				
Knowledge Delivery	对面积的曲面	面积分、对坐标的曲面积分			
	Surface integr	rals with respect to surface area surface integrals with			
	respect to coo	rdinates			
	高斯公式,斯托克斯公式				
	Gauss formul	a and Stokes formula			
	了解: Recognize	两类曲线积分、两类曲面积分的概念和性质			
		Concepts and properties of two kinds of line integral			
		and two kinds of surface integral			
\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	理解:	散度和旋度的概念和计算			
学习目标:	Understand	Understand Concept and calculation of divergence and rotation			
Learning Objectives		两类曲线积分、两类曲面积分的计算			
	掌握:	Calculation of two kinds of line integral and two kinds			
	Master	of surface integral			
		格林公式、高斯公式、斯托克斯公式			
	Green formula Gauss formula and Stokes formula				
<i>₩</i> → □ □		了全球,数学理论的发展对提升中国工程关键技术及核 5 m 表 22			
德育目标	心竞争力的重要意义。				
Moral Objectives	Understand the technology development, key techniques and the core				
	competitiveness in the area of the China engineering in the world.				
重点:		大、两类曲面积分的计算			
Key Points	Calculation of two kinds of line integral and two kinds of surface				
难点:	integral 积分与路径无关的等价条件				
Focal points	Equivalent conditions of path independence of line integrals				
1 ocal points	Equivalent conditions of paul independence of fine integrals				

## 四、教学安排 Teaching Schedule

注: 可根据实际情况增减行数

Note: Please add/reduce lines based on subject.

	学时(周)Hour(Week)			
教学内容 Teaching Content	理论	实验	实践	PBL
	LECT.	EXP.	PRAC.	PBL
实数连续性	10	0	0	0
Continuity of real numbers	10			
数项级数	12	0	0	0
Series with Constant Terms	12	0		
函数项级数	10	0	0	0
Functional Series				
向量代数与空间解析几何	10	0	0	0
Vectors and Solid Analytic Geometry				
多元函数微分法及其应用				
Differential Calculus of Multi-variable	20	0	0	0
Functions and its Application				
重积分	14	0	0	0
Multiple Integrals				
曲线积分与曲面积分	20	0	0	0
Line Integrals and Surface Integrals	20	U	U	U
总计 Total	96	0	0	0

#### 五、教学方法 Teaching Methodology

注: 可根据实际情况增减行数或修改内容

Note: Please add/reduce lines or revise content based on subject.

勾选 Check	教学方法与特色 Teaching Methodology & Characters		
	课堂教学:板书与多媒体相结合、以板书为主		
	Combination of blackboard writing and multimedia, mainly blackboard writing		
Ø	实践能力传授:理论与行业、实际案例相结合 Combining theory with industrial practical problems		
Ø	课程思政建设: 知识讲授与德育相结合 Knowledge delivery with ethic education		
	PBL 教学: Problem-based learning		
	其他: Other:		

#### 六、成绩评定 Assessment

注: 可根据实际情况增减行数或修改内容

Note: Please add/reduce lines or revise content based on subject.

考核环节:	平时 Behavior	环节负责人:	刘艳杰
Assessment Content	The Benavior	Director	Liu Yanjie
给分形式:	百分制 Marks	课程总成绩比重(%):	30
Result Type	自分型 Walks	Percentage (%)	30
考核方式: Measures	平时作业完成情况综合 堂教师随机提问占比 According to instant an report and question per performance and instant	时课堂出勤、表现、课堂合评定,其中,学生平时 20%,学生平时作业完成 nswer to the teacher's qualiformance, the mark is ever tant answer accounts the and post-lecture) accounts	寸课堂出勤、表现、课 対情况占比 80%. estions, comprehensive aluated, where question for 10%, assignments

考核环节:	期中 Mid-term	环节负责人:	刘艳杰
Assessment Content	为中 Wild-teilii	Director	Liu Yanjie
给分形式:	百分制 Marks	课程总成绩比重(%):	20
Result Type	自分型 Walks	Percentage (%)	20
考核方式:	以闭卷形式进行 2 次阶段小测验(threshold test),每次 90 分钟. 每次考试成绩占期中总成绩 50%。		
Measures	Two threshold tests in the form of closed book, with 90 minutes each time. Each test score accounts for 50% of the total mid-term score.		

考核环节:	期末 Final	环节负责人:	王晓敏
Assessment Content	7917K Tillal	Director	工吮蚁
给分形式:	百分制 Marks	课程总成绩比重(%):	50
Result Type	日分型 Marks	Percentage (%)	50
考核方式: Measures	闭卷考试,考试时间 120 分钟。 Closed book examination, 120 minutes.		

#### 七、改进机制 Improvement Mechanism

注: 未尽事宜以教学团队以及学院教学指导委员会商定为准。

Note: Matters not covered in this file shall be determined by TAB of SSTC, NEU.

教学大纲改进机制 Subject Syllabus Improvement Mechanism			
考核周期(年):	4	修订周期(年):	4
Check Period (YR)	4	Revise Period (YR)	4
改进措施: Measures		教学内容与人才培养目 分管教学工作副院长审	
ivicasures	The subject coordinato	r shall be responsible for	the syllabus discussion

and improvement, and the revised version shall be submitted to deputy dean (teaching affairs) for reviewing then to executive dean for approvement.  成绩评定改进机制 Assessment Improvement Mechanism			
考核周期(年):	1	修订周期(年):	1
Check Period (YR)	-	Revise Period (YR)	-
改进措施: Measures	课程负责人根据课程教学内容、课堂教学效果以及成绩分布,对课程教学方法和成绩评定环节进行改进,并同步优化评定办法。 The subject coordinator shall revise the syllabus based on the teaching content, effect and result distribution while optimize the assessment measures.		