Undergraduate Program for Specialty in Basic Medical Sciences

. Program Objectives

Facing the frontier of medical sciences and major national strategic needs, this program aims at cultivating high-ranking leading talents of medical science research in basic disciplines and the Medical Scientist in medical science for the future. Students of this specialty should possess lofty aspirations and global insight, innovative thinking and comprehensive quality, solid medical knowledge and strong practical ability, and greater development potential to can engage in basic research and application development in the field of medicine and health.

Graduate Outcomes

Students of this specialty should master basic theory, basic knowledge and basic skills & technology of modern life science, basic medicine, clinical medicine, and medical experiment technology. Students should have the ability to be engaged in medical scientific research and education, so as to lay a firm foundation for the continued education after graduation.

Graduates should acquire the following morals, knowledge and skills:

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Attitude Requirements

1. Abide by laws and regulations. Possess patriotism and collectivism spirit, and wish to . 193.

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contribute to the development of medical science and education.

- 2. Establish scientific outlook on world, life and values, and solve problems in life and work with scientific methods.
- 3. Advocate academic learning, study hard, work hard, keep forging ahead and strive for excellence.
- 4. Establish scientific attitude of seeking truth from facts. Establish the mind habits of independent thinking and critical thinking; dare to think out of the box and work independently.
- 5. Establish the ideology of wishing to make contributions to the formation of new knowledge, to the discovery of new skills and to the spreading of knowledge.
- 6. Possess team spirit and interpersonal communications skills, a healthy sense of competition, as well as the capability of cooperating with others.
- 7. Establish the idea of studying throughout one's life and fully realize the importance of going on unceasing self-perfection and receiving continued education. Possess the ability of independent learning and lifelong learning.
- 8. Establish the idea of medical ethics, respect personal faith, respect every person, and have a good understanding of his humane background and cultural value.

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			Knowledge	Requirement
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- Grasp the basic knowledge and scientific methods of bioscience, behavior science and social science and used them for guiding study and medical practice in the future.
- 2. Be Familiar with the advanced knowledge of Cell Biology, biochemistry, molecular biology, genetics, microbiology and other medical related disciplines.
- 3. Grasp the normal structure, function and psychological condition of the human body at different stages of life. Grasp the morphological and functional changes of molecules, cells, tissues, organs and systems under normal physiological and pathological conditions.
- 4. Grasp certain clinical medical knowledge, diagnosis and treatment of common diseases and clinical thinking methods. Understand the new progress and achievements of clinical medical research.
 - 5. Grasp the scientific thinking and research methods of basic medicine.
- 6. Grasp certain knowledge and thinking methods of public health and preventive medicine. To master the knowledge and methods of clinical epidemiology.
 - 7. Master certain teaching knowledge and skills of basic medicao

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Skills Requirements

- 1. Possess certain medical research ability and relatively strong practical ability; master fundamental experiment design methods and various experimental skills of morphology, function, molecular biology, experimental zoology and so on, and instrumentation. Capable of reading and analyzing experimental data, research results and their scientific significance in a proficient manner.
- 2. Possess basic teaching ability with regard to basic medicine and master modern education technology as well as common teaching methods.
- 3. Possess the ability of making use of various kinds of information resources and information technology to keep on study and research independently. Possess the preliminary ability of information acquisition, analysis, application and management.
- 4. Possess excellent language expression and communication skills with sound ability to listen, speak, read and write in Chinese and English. Chinese writing should be fluent, grammatically correct, logical and expressive. Capable of reading and translating English Professional Literature as well as carrying out international academic communication.

Program Highlights

This program integrates the knowledge of humanities, information and computer science with that of biology, basic medicine and clinical medicine so as to cultivate the Medical Scientist and leaders in medical science for the future.

The program aims at cultivating students a solid professional knowledge base and a multi-disciplinary background of science improving students 'comprehensive quality and cultivating compound talents with innovative ability. Equipped with the best teachers and the best conditions for scientific research, small classes, personalized and internationalized training will be implemented throughout the process. This class implements the training program of " one plan for a student". Taking the innovative subject as the carrier, we should comprehensively promote the " Three Early Projects", run the innovative entrepreneurship education through the whole process of talent

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training. In the future, Graduates will enter the world's first-class universities or top universities in China with first-class international competitiveness.

Main Disciplines

Biological Science

Basic Medical Sciences

Clinical Medicine

. Program Length and Degree

Duration: 5 years

Degrees Conferred: Bachelor of Medicine

Credits Hours and Units for 5-year Training

209

Minimum Credits of Curricular (Comprising course system and intensified internship practical training): 209 credits. Major-related basic courses and core courses cannot be covered using credits from other courses in the program,

Minimum Extracurricular Credits: 8 credits

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Course	Credits Hours ar	nd Units			41 T	
11/15/15				//		
T. Thill			636	33.0	15.8	
			64	4.0	1.9	
			704	41.5	19.9	
			32	2.0	0.9	1.4.
			500	30.0	14.3	村村
		IV.	64	4.0	1.9	TIKY.
		7	1188	58.0	27.8	N. M.
	. 24		96	6.0	2.9	
	12/15	2	61w	30.5	14.6	
			3284+61w	209	100.0	
	4 Killi		2208	60	48.5	

			_	h V	
LX'S	Course Type	Required/Elective	Hours	Credits	Percentage(%)
Essential-qualitie	s-oriented Education General	Required	636	33.0	15.8
X-X.2	Courses	Elective	64	4.0	1.9
	Discipline-related General	Required	704	41.5	19.9
Discipline-related	Courses	Elective	32	2.0	0.9
Courses	Pagia Sub-digainlinama Cauraga	Required	500	30.0	14.3
	Basic Sub-disciplinary Courses	Elective	64	4.0	1.9
Major-specific	Major-specific Core Courses	Required	1188	58.0	27.8
Courses	Major-specific Core Courses	Elective	96	6.0	2.9
Internship	p & Practical Training	Required	61w	30.5	14.6
	Total		3284+61w	209	100
	Practicum Credits	•	2208	60 🙏	48.5

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		1	0.5	1.4
		ر الإ	0.5	1.4
		1	0.5	1.4
		12	6.0	28.1
	1	4	2.0	8.5
	工业	4	2.0	5.7
	The way	36	18.0	50.7
X 3		61	30.5	100

	(1)	•			为	
	Internship & Practical Training	Required/Elective	Weeks	Credits	Percentage (%)	
	Military Training	Required	2 1	1.0	2.8	
	Admission Education	Required	1	0.5	1.4	
10	Graduation Education	Required	BK 1	0.5	1.4	
	Graduation Examination	Required	1	0.5	1.4	K
	Clinical Intern	Required	12	6.0	28.1	This This
	Early Contact Scientific Research	Required	4	2.0	8.5	是基础是
	Scientific Research Innovation Training	Required	4	2.0	5.7	
	Undergraduate Thesis	Required	36	18.0	50.7	
	Total		61	30.5	100	

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	3.	Extracurricular Cr	edits	治原		
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	12/			XXX	1.0-2.0	
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121			12	90	3.0	
				6.5	3.0	
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	10			1	0.5	
	13	415		12	1.0	
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"太大"	No.	Items	Re	equirements	Credits	V
中华沙沙	1*	Early Patient Contact	the 2nd academic year, submit a wexamined and approved	Lin a medical unit for 2 weeks in summer of working summary and a unit certificate, being	1.0	华中科技大
	2*	Preventive Medicine Practice		r community health center for 2 weeks (or 72 holidays during the 3rd academic year and g assessed and approved		E H
	3*	Ideological and political course Social Practice	Submit a report and obtain a passing	ng score	2.0	
X	4*	International Exchange	universities related to biomedical the graduation certificate;	camp or Summer School in famous overseas discipline for 2 weeks or more, and getting lemic conference held at home and abroad,	1.0	
1×1			with poster display or make confer		1.0	
	5*	Labor Education	Fulfilling all hours and obtain credi	its	2.0	Y ₃
	6*	Competitions	University Level	Win first prize Win second prize Win third prize Win first prize	3.0 2.0 1.0 4.0	差学院
		x = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Provincial Level	Win second prize Win third prize	3.0 2.0	
	. 198.	华中东		华中港		
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		74/2			continue	<u> </u>
	No.	Items	R	Requirements	Credits	
	* * * *	XX		Win first prize	6.0	
	6* 1	Competitions	National Level	Win second prize	4.0	
413	(X, X, Y,			Win third prize	3.0	
华中			Submitting a report and passing the	he oral defense	2.0	
	7	Social Practice	Individuals awarded " Active Pa	rticipant" / Teams awarded " Excellent	2.0	
The state of the s			Performance" by HUST or Hube	i Youth League Committee	2.0	. 20
			CET-6	Students whose Band-6 exam scores	2.0	治了
			TOPPI	accord our requirements	- 11/2/2	
			TOEFL	90 Points or Higher	3.0	
		Examination in	IELTS 7	6.5 Points or Higher	3.0	
	8	English and	GRE	300 Points or Higher	3.0	
		Computer	National Computer Rank Examination	Win certificate of Band-3 or higher	2.0	
		12		Win certificate of programmer	2.0	
>			National Computer Software	Win certificate of Advanced programmer	3.0	
:43	N.		Qualification	Win certificate of System Analyst	4.0	
基础摆弹队	9	Academic Paper	Published in national-level journals	Each paper	2.0-3.0	漢基础差
185 °	10	Patent	Officially obtained patent publication number	Each program	2.0-3.0	清楚加州
	11	Academic	· -/ V 3E ·	ure organized by school for 5 times; submit	1:0	
		activities	2 / 1	for one lecture; obtain proof of school	1-1/1/2.	
			Participated in scientific	1X.F	1.0	
			research practice and passed the defense	**	1.0	
		12 No.	Innovation and entrepreneurship	12		
		Scientific	training program of school	Each item (Depending on both the time	1.0	
	12	Research	Innovation and entrepreneurship	spent in and ability demonstrated in		
أبلنه			training program of	scientific research project)	2.0	
1X'3			university/province	~ 13 13 · · · · · · · · · · · · · · · · ·		
平科技大学			Innovation and entrepreneurship		3.0	上大
O.K.Y.			training program of nation	/	0.0	1=137
	13	Popularization of	Engaged in the scientific popularization	Each program	0.5	华中科技大
	10	Science	Published popular science articles in national-level journals	Each paper	1.0	

Notes: 1. In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

*" shows that the item and requirements must be completed by every student

. Main Courses and Innovation Entrepreneurship Courses

Main Courses

Human Anatomy Human Histology Pathogen

Pathogen Biology Biology Medical Immunology

> Biochemistry and Molecular Biology Pathology Physiology

Pathophysiology Pharmacology Diagnostics Internal Medicine 华中科技大学

Gynaecology and Obstetrics Surgery Pediatrics

Foundation and Progress of Cell and Genetics

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Innovation (Entrepreneurship) Courses

Innovative Awareness Enlightenment Course

Introduction

to Basic Medical Sciences

1 Lab Rotation

at Early Stage

2 Lab

Rotation at Early Stage

Innovative Ability Training Cours

1Functional Experiments

2 Functional Experiments (2) (1)

Experimental

Technique in Medical Biochemistry and molecular Biology

Experimental

Technique in Medical Immunology

Medical Research Safety and Skills

at Early Stage

Medical Experiment Design and Scientific Writing

Innovative Practice Training Course

4 Medical Research Thinking Training and Scientific Research Practice

APracticum Module experiments Included

Clinical Intern Internal Medicine Internship

Surgery

Internship

Gynaecology and Obstetrics Internship

Pediatrics

Internship)

Undergraduate Thesis

Scientific Research

Innovation Training

1 Lab Rotation

Rotation at Early Stage

. Course Schedule

School(Department) Tongji Medical College

Basic Medical Sciences Specialty

	- 545	医学				آ بن	学	Inclu	ıding			
11.7	course type	required/ elective	course code	course name	hrs	crs	lecture	tutoral	exp/prac	extra	semester	
	Esse	Required	MAX0022	Morals, Ethics and Fundamentals of Law	40	2.5	32			8	1	华中科技术
	ntial-qı	Required	MAX0042	Survey of Modern Chinese History	40	2.5	32			8	2	
	ualities-or	Required	MAX0013	Introduction to Basic Principles of Marxism	40	2.5	32	<u>~</u> 1	出生	8	1	
1	iented Educatior	Required	MAX0072	Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era		3.0	L 32	3	8	8	1	
	Essential-qualities-oriented Education General Courses	Required	MAX0063	General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics		3.0	32			16	2	美学院
	SS	Required	MAX0032	Situation and Policy	48	1.5	18		XX	30	5-7	
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1 11	course type	required/ elective	course code	course name	hrs	crs	lecture	Inclu	exp/prac	extra	semester	
W. H	E	Required	RMWZ0002	Military Theory	36	2.0	32		окруртио	4	1	
	Essential-qualities-oriented	Required	CHI0001	Chinese	32	2.0	22			10	2	沙原
	l–quali	Required	SFL0001	Comprehensive English	56	3.5		56	ر.		机机	
	ties-or	Required	SFL0011	Comprehensive English	56	3.5		56	ダイド	3.	2	
		Required	NCC0051	Python Fundamentals of Computer Programming (Python)	48	3.0	140	777	8		2	
水性差涉	Educat	Required	PHE0002	Physical Education	60	1.5			60		1-2	
品加	ion Ge	Required	PHE0012	Physical Education	60	1.5			60		3-4	漢基础
	neral (Required	PHE0022	Physical Education	24	1.0			24		5-6	
	Education General Courses	Elective	龙	2.0 Electives in Humanities and Social Science (including 2.0 credits for aesthetic education courses)	64	4.0	64	14	类	43	1-2	
. *	玉石出	Required	MAT0511	Calculus	80	5.0	80	.77			1	
法大学	35	Required	MAT0591	Mathematical Statistics	40	2.5	40				2	
EX-37	Γ	Required	PHY0541	Physics	64	4.0	64				2	华中科技
	disciplin	Required	PHY0551	Physics Experiments	32	1.0			32	45	2	2.
	e-relate	Required	CHE0711	Fundamental Chemistry	88	5.5	50		38	3/5	1	
	Discipline-related General Courses	Required	CHE0821	Organic Chemistry	96	6.0	52	漢	44		2	
V.H	ral Cour	}_ '	BMS0981		24	1,5	24				1	
	ses	Required	BMS0131	Foundation and Progress of Cell and Genetics	d 48	2.5	24		24		6	**
				Science							(!	美学院
		Required	U.A.	Foundation and Progress of Oncology	48	2.5	32	4	12	湾	6	
		华中	传教艺		1	1	NY.	中村	19 <u>7</u>		. 201.	ı

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							Inclu	ıding		
course type	required/ elective	course code	course name	hrs	crs	lecture	tutoral	/ exp/prac	extra	semester

Discipline-related General Courses

Required BMS0892

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	course	required/	course	course name		أحد	冷	Inclu	iding /						
W.H	course	elective	code		hrs	crs	lecture	tutoral	exp/prac	extra	semester				
添		Required	BMS2121	Medical Research Thinking Training and Scientific Research Practice	40	1.5	4	4	32		8				
`		Required	BMS0001	Educational Teaching Ability Training and Practice	80	3.0	16		24	40	8	350			
		Required	BMS0514	Systematic Anatomy	96	4.5	48		48	37	3				
		Required	BMS0081	Human Histology	56	3.0	32	北北	24		3				
1. TV	*.	Required	BMS0597	Biochemistry & Molecular Biology	88 5.5	88				3					
基础差涉		Required	BMS0041	Physiology	88	5.5	74	12		2	4	沙漠基础是			
爱		Required	BMS0121	Pathogen Biology	48	2.0	18		30		4	是加加			
		Required	BMS0961	Pathogen Biology	72	3.5	48		24	1 13	**************************************				
		Required	BMS0805	Medical Immunology	48	3.0	48		炎	H	4				
	Major	Réquired	BMS0051	Pathology	92	4.5	50	13Th	42		5				
大学	Major-specific	Required	BMS0531	Pathophysiology	56	3.5	48	6		2	5				
中科技	Core	Required	BMS0583	Pharmacology	56	3.5	48	8			5	华中科技人			
	Courses	Required	BMS0671	1 Functional Experiments	32	1.0			32		4	KH"			
		Required	BMS0682	2 Functional Experiments	72	2.0			72	李厚	K 5				
	د	Required	BMS2011	Experimental Technique in Medical Biochemistry and molecular Biology	80	2.5	2.5	是是	HH 80		3				
华口	科学	Required	BMS2021	Experimental Technique in Medical Immunology	48	1.5			48		4				
***		Required	BMS0161	Medical Research Safety and Skills	32	1.5	20		12		3	Ž,			
		Required	BMS0141	Medical Experimental Design and Scientific Writing	32	2.0	32				8	美沙尔			
		Elective	**	Electives in Special Science	96	6.0	96		*	学	5-8				
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			少学易	Tim				治	Inclu	ding				
	中有	course type	required/ elective	course code	course name	hrs	crs_	lecture	tutoral	exp/prac	extra	semester		
			Required	RMWZ3511	Military Education	2w	1.0			2w		1		
荒		Required	CLF3801	Admission Education	1w	0.5			1w		1	学队元		
		Required	CLF3511	Graduation Education	1w	0.5			1w		Tivo			
			Required	CLF3521	Graduation Examination	1w	0.5		x=*	1w	3	10		
			Required	CLF3721	Internal Medicine Internship	4w	2.0	学位	77	4w		7		
14.	治學	Pract	Required	CLF3761	Surgery Internship	4w	2.0			4w		7	•>	
基础差		Practical Training Items	Required	CLF3614	Gynaecology and Obstetrics Internship	2w	1.0			2w		7	学基础差	
		ing Iter	Required	CLF3584	Pediatrics Internship	2w	1.0			2w		17/		
		ns	Required	BMS0101	1 Lab rotation at early stage	2w	1.0			2w	中	3		
			Required	BMS0111	2 Lab Rotation at early stage	2w	1.0	://	No.	2w		4		
中科技大学	基析出	Required	BMS3611	Scientific Research Innovation Training	4w	2.0	£ 3	*	4w		8			
		Required	BMS3532	Undergraduate Thesis	36 w	18.0			36w		9-10	过艺术		
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Combine the education of Marxist standpoint, viewpoint, and method with the cultivation of scientific spirit in the course teaching to improve students' ability to understand, analyse, and solve problems correctly. Pay attention to the training of scientific thinking methods and the education of scientific ethics and cultivate students' sense of responsibility and mission to explore the unknown, pursue the truth and climb the scientific peak bravely. Pay attention to strengthening professional ethics education in the course teaching, and guide students to maintain people's life safety and health in the first place and respect life. Cultivate students' striving for perfection and stimulate students' feelings of home and country and their mission to serve the country through science and technology.

10.

Every course should carefully select and renew teaching content and improve teaching methods; strengthen the training of basic theory, basic knowledge and basic skills; enhance the cultivation of self-study ability, practice ability, foreign language and computer application ability, and preliminary ability in scientific research; pay attention to an early contact with clinic, the infiltration between basis and clinic and the concept of prevention first; lay stress on the imparting of knowledge of liberal arts and science, broaden students' range of specialty and knowledge; improve psychological quality and medical ethics; pay attention to interpersonal communication and promote social adaptation.

- 1. Teaching content is passed on both in class and outside class. Forms of in-class teaching consist of big class, small class (discussion, case analysis, etc.), experiments, extern, intern and so on; outside-class teaching indicates that students learn the teaching content of the syllabus by way of automatic study outside class, social practice and other forms (not including students' regular reviewing of their lessons).
- 2. Specialized foreign language teaching offers at least 10% of the class hour of foreign language studying for every courses. At least 10 common specialized foreign vocabularies should be introduced and used repeatedly within every class hours. At least 1 to 2 courses adopt foreign language

textbooks or foreign language teaching in every semester.

- 3. Research ability training: Ability training for scientific research should be carried out through all links in the teaching process. Students studying with remaining strength are encouraged to take part in research activities outside class. In conjunction with preventive medicine social practice (community practice) and holiday social practice, training in research work can be carried out. Furthermore, social investigations with a quality of scientific research can be conducted in combination with holiday social practice. Students are advised to attain the following goals:
 - a, take elective courses featuring scientific research and academic ethics;
 - b, attend various academic reports and lectures;
 - c, write learning notes will be recorded in extracurricular credits;
 - d, publish one single first author paper in Chinese or SCI during the stage of undergraduate.
- 4. According to the regulations concerned with course selection, courses can be selected in a way of intercollege, interdiscip

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4	-1.13-7							145	X_	2	I				
收中等								拉养力							
		32			8	40	2.5	12	32			8	40	2.5	
氘		32			8	40	2.5		32			16	48	3.0	
		32	, la	87	118	48	3.0	Python	40		8		48	13.0	
		56	13	73		56	3.5		56			1	56	3.5	
	4=\	80				80	5.0		40		155	7	40	2.5	
	性执行	50		38		88	5.5		64	公市	-7.7.		64	4.0	
		24				24	1.5		华	* \	32		32	1.0	
:4 B	t,	0.0		30	,	30	0.75	.4R.	50		30		30	0.75	
世星		32			4	36	2.0	() ()	52 22		44	10	96 32	6.0 2.0	TH (#)
基础是学院		1w 2w				1w 2w	0.5 1.0		22			10	34	2.0	为其杨州
		338/ 3w		76	28	442/ 3w	27.75		338		114	34	486	28.25	(3)
			414/3	w A	28	442/ 3w	27.75			452		34	486	28.25	
		2	**			474/ 3w	29.75		2		I.	學	518	30.25	
	:45TC					JW.				47	Ç,				1
	工业是							1410		311					
22	T WILL							加加							
大大		32				32	2.0	XXX	20		12		32	2.0	LX.
中科技人		48		48		96	4.5	37	74	12		2	88	5.5	1=177
		32		24		56 88	3.0	1			32		32	1.0	茶井朱沙
		88		12.		88	5.5		48				48	3.0	7
			沙	80		80	2.5				48	. %	48	1.5	
	拉技术学	36	5	24		60	3.0		18		30	1	48	2.0	
	一次是	20		12		32	1.5		48		24		72	3.5	
	小技术	42	22			64	3.5	المعلا .	.50	15	6		56	3.5	
- v - K	1. L.Y.,			30		30	0.75	如美沙	32				32	2.0	
12	1			2w		2w	1.0	NY CHANGE	24		0.0		24	1.5	<i>Y</i> ,
								2			30 2w		30 2w	0.75	
		000	00	218/		538/	1/20	۷	00.1	1.0			454		沙龙
		298	22	2w	197	538/ 2w	27.25		264	12	176 /2	2	/2W	23 75	53
			538/2w	交易	-	538/ 2w	27.25			452/2	Żw	2	454/ 2w	23.75	
	A.3	107	7			538/ 2w	27.25		0	_	<u>-</u>	1	470/ 2w	23.75	
	华山木					· ·			٧X	中	长人	*		207.	1
								. 17		*					

沙世和特美学形式

	50		42		92	4.5		24		24		48	2.5
	48	6		2	56	3.5		32				32	2.0
	48	8			56	3.5		32	4	12		48	2.5
2			72		72	2.0		36		12		48	2.5
	66		6		72	4.5		28			4	32	2.0
	40		8		48	3.0		28			4	32	2.0
()			12		12	0.5		28			4	32	2.0
1	4	4	16		24	1.5		27			5	32	2.0
1							()			12		12	0.5
								4	4	16		24	1.5
							2						
	256	18	156	2	432	23 0		239	8 323	76	17	340	19.5
		430		2	432	23.0		17	340	19.5			
	0				432	23.0		372	21.5				
												ı	
		ı	ı										
			4w		4w	2.0		16		16		32	2.0
			4w		4w	2.0		24				24	1.5
•	• '	•	2w		2w	1.0	•	32	1	1		32	2.0