Bachelor Program of Electronic Information Engineering

（in English）

电子信息工程专业本科教学计划（英文授课）

2014

School of Electronics and Information Engineering

Beihang University, Beijing, China

北京航空航天大学电子信息工程学院

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[Introduction to School of Electronics and Information Engineering]:

School of Electronics and Information Engineering (SEIE) of Beihang University (originally Department of Electronic Engineering) is one of the earliest department of aeronautic electronic engineering founded in China, which has a history of 50 years.

SEIE composes of more than ten multidiscipline research laboratories and centers including a national open laboratory for electronic system and measurement-control technology, an key avionics laboratory of aviation ministry, a teaching center of experiment and practice, GPS research center, BUAA-Angilent electronic R&D center, Ansoft-BUAA training center and Willim C.Y. Li communication R&D center, etc.

SEIE has 146 faculty and staff members, including 23 professors and 55 associate professors, in which 22 professors are doctoral supervisors. The school has already cultivated more than 10000 undergraduates, graduates, doctors and post-doctoral fellows. The number of the students in campus is 960 for undergraduate students and more than 1000 for Master and Ph.D. candidates.

In SEIE, Long term academic exchanges, joint laboratories and contracted projects have been established and performed with reputed universities, research institutes and industries in China and abroad.

Education Curriculum：

the 1st Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
A09A101I	工科高等数学#(1) Advanced Mathematics for Engineering (1)	90	6.0	Compulsory	NSC	Examination
B25D111I	中国概况 Introduction to China	16	1.0	Compulsory	HC	Examination
B25D116I	汉语 (1) Chinese (1)	64	3.0	Compulsory	HC	Examination
C05D101I	航空航天概论 B Introduction to Aeronautics and Astronautics B	26	2.0	Compulsory	ETC	Examination
C06D101I	计算机文化基础 University Computer Foundation	44	2.0	Compulsory	ETC	Examination
C32D101I	工程认识 Engineering Experience and Cognition	20	0.5	Compulsory	ETC	Test
E02D111I	电子信息工程导论 Introduction to Electronic Information Engineering	18	1.0	Compulsory	FMC	Examination

the 2nd Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
A09A102I	工科高等数学 (2) Advanced Mathematics (2)	86	5.0	Compulsory	NSC	Examination
A09A103I	工科高等代数 Advanced Algebra	112	6.0	Compulsory	NSC	Examination
A19A101I	工科大学物理 (1) University Physics for Engineering (1)	64	4.0	Compulsory	NSC	Examination
B25D117I	汉语#(2) Chinese (2)	64	3.0	Compulsory	HC	Examination

C25D121I	C 语言程序设计 C Programming Language	48	2.5	Compulsory	ETC	Examination
E07D101I	机械工程引论 Introduction to Mechanical Engineering	56	3.5	Compulsory	FMC	Examination
G32A201I	机械工程技术训练 A Mechanical Technology Practice A	140	3.5	Elective	PC	Test

the 3rd Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
A09B204I	概率统计 A Probability Statistics A	64	4.0	Compulsory	NSC	Examination
A19A202I	工科大学物理 (2) University Physics for Engineering (2)	64	4.0	Compulsory	NSC	Examination
A19A103I	基础物理实验 B (1)# Fundamental Physics Experiments B (1)	28	1.5	Compulsory	NSC	Examination
C02D222I	计算机软件技术基础 Computer Software Technical Basics	64	3.5	Compulsory	ETC	Examination
E02B231I	电路分析 Circuit Analysis	64	4.0	Compulsory	FMC	Examination

the 4th Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
A19A104I	基础物理实验 B (2)# Fundamental Physics Experiments B (2)	24	1.5	Compulsory	NSC	Examination
E02B251I	信号与系统 Signals and Systems	66	3.5	Compulsory	FMC	Examination
E02B241I	电磁场理论 Electromagnetic Field Theory	63	3.5	Compulsory	FMC	Examination
E02B253I	电子电路Ⅰ Analog Electronic CircuitⅠ	64	3.5	Compulsory	FMC	Examination
E03A201I	电气技术实践Ⅰ Basic Practice on Electrical TechnologyⅠ	36	2.0	Compulsory	FMC	Examination
G32A204I	电子工程技术训练 Electronic Technology Practice	80	2.0	Compulsory	PC	Test

the 5th Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
E02B352I	随机过程理论 Stochastic Process	32	2.0	Compulsory	FMC	Examination
E02B334I	数字电路 Digital Circuit	56	3.5	Compulsory	FMC	Examination
E02B342I	微波技术 Microwave Technology	64	3.5	Compulsory	FMC	Examination
E02B333I	电子电路Ⅱ Analog Electronic CircuitsⅡ	64	3.5	Compulsory	FMC	Examination
E03A302I	电气技术实践Ⅱ Basic Practice on Electrical TechnologyⅡ	36	2.0	Compulsory	FMC	Test
E02D3610	电子测量 Electronic Measure	46	2.5	Compulsory	FMC	Test

the 6th Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
E02D362I	自动控制原理 Principle of Automatic Control	42	2.5	Compulsory	FMC	Examination
E02D323I	微机原理与接口技术 Principle and Interface Technique of Microcomputer	58	3.5	Compulsory	FMC	Examination
E02B353I	数字信号处理 Digital Signal Processing	60	3.5	Compulsory	FMC	Examination
E02D354I	信息论基础 The Foundation of Information Theory	32	2.0	Compulsory	FMC	Examination
F02D3110	图像信号处理 Image Processing	50	3.0	Elective (in Chinese)	MC	Test
F02D3240	嵌入式系统原理及应用 Advanced Embedded System	34	2.0	Elective (in Chinese)	MC	Test

the 7th Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
E02D235I	EDA 基础 Foundation of Electronic Design Automation	64	3.5	Compulsory	FMC	Examination
E02B371I	通信原理 Principle of Communication	66	4.0	Compulsory	FMC	Examination
F02D411I	无线电导航 Radio Navigation	36	2.0	Compulsory	MC	Examination
F02D414I	通信天线与馈电系统 Antennas and Feed System for Communication	36	2.0	Compulsory	MC	Examination
F02D438I	网络管理 Networks and Network Management	16	1.0	Elective (in Chinese)	MC	Examination
F02D4220	遥控遥测系统 Telemetry and Telecommand System	36	2.0	Elective (in Chinese)	MC	Test
F02D4210	软件无线电基础 Software Radio Fundament	48	2.5	Elective (in Chinese)	MC	Test
F02D4280	DSP 原理与应用 The Theory and Application of DSPs	38	2.0	Elective (in Chinese)	MC	Test

the 8th Semester

Code	Title	Hours	Credits	Note	Type	Evaluation
G02D4010	毕业设计 Graduation Thesis	16wks	8.0	Compulsory	PC	Test

Explanation of course type:

NSC: Natural Science Courses (自然科学类课程)
HC: Humanities Courses (人文社科类课程)
ETC: Engineering Technology Courses (工程技术类课程)
FMC: Fundamental Major Courses (学科与专业基础课程)
MC: Major Courses (专业课程)
PC: Practice Courses (实践类课程)