



King's College London

Jiaying Wang

having completed the approved programme of study and  
satisfied the examiners has this day been admitted to  
the King's College London degree of

Master of Science  
*in*  
Cyber Security

PASS WITH DISTINCTION  
1 December 2021

Chairman of Council



Principal and President



## King's College London Academic Transcript

Student Name: Jiaying Wang

Award: Master of Science

Award Title: Cyber Security

Award Class: Pass with Distinction

Student Number: 20006542

Date of Enrolment: 28/09/2020

Date of Award: 01/12/2021

Date of issue: 16/11/2021

Academic Year	Module Code	Title	Level	Mark	Result	Credits	Attempt
2020/21	7CCSMASE	Software Measurement and Testing	7	67	P	15	1
2020/21	7CCSMCFC	Computer Forensics and Cybercrime	7	71	P	15	1
2020/21	7CCSMCIS	Cryptography	7	82	P	15	1
2020/21	7CCSMDLC	Distributed ledgers and crypto-currencies	7	61	P	15	1
2020/21	7CCSMNSE	Network Security	7	79	P	15	1
2020/21	7CCSMPRJ	MSc Individual Project	7	74	P	60	1
2020/21	7CCSMSCCT	Security Testing	7	57	P	15	1
2020/21	7CCSMSEM	Security Management	7	60	P	15	1
2020/21	7CCSMSEN	Security Engineering	7	71	P	15	1



Executive Director, Education and Students

# Higher Education Achievement Report

## (Diploma Supplement)

This Higher Education Achievement Report incorporates the model developed by the European Commission, Council of Europe and UNESCO/CEPES for the Diploma Supplement.

The purpose of the Supplement is to provide sufficient recognition of qualifications (diplomas, degrees, certificates etc). It is designed to provide a description of the nature, level, context and status of the studies that were pursued and successfully completed by the individual named on the original qualifications to which this Supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

King's College London produces HEARs in a digital format. Only HEARs accessed via [www.gradintel.com](http://www.gradintel.com) can be considered valid and verified.

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### 1. Information identifying the holder of the qualification

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- |     |                                |               |
|-----|--------------------------------|---------------|
| 1.1 | Family name:                   | Wang          |
| 1.2 | Given names:                   | Jiaying       |
| 1.3 | Student identification number: | 20006542      |
|     | HESA identification number:    | 2011340065420 |
- HUSID (HESA Unique Student Identifier) is the unique national identifying number for students registered at a UK university. It is defined by HESA, the UK's Higher Education Statistics Agency.*

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### 2. Information identifying the qualification

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- |     |   |  |
|-----|---|--|
| 2.1 | Name of qualification and (if applicable) title conferred:                    | Master of Science<br>The power to award degrees is regulated by law in the UK.   |
| 2.2 | Main field(s) of study for the qualification:                                 | Cyber Security   |
| 2.3 | Name and status of awarding institution:                                      | King's College London, established by Royal Charter in 1829 and a recognised body with taught and research degree awarding powers. |
| 2.4 | Name and status of institution (if different from 2.3) administering studies: | As awarding institution  |
| 2.5 | Language(s) of instruction and examination:                                   |  |
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Teaching and assessment at King's College London is in English, except for programmes of study involving language studies, where some teaching and assessment is in the relevant language(s).

### 3. Information on the level of the qualification

3.1	HESA level of qualification:	Masters Degree not mainly by Research
3.2	Official length of programme:	1 year
3.3	Access requirement(s): Description not available	

### 4. Information on the contents and results gained

4.1	Mode of study:	Full Time
4.2	Programme requirements: Description not available	
4.3	Programme details, and the individual grades/marks/credits obtained:	
	Programme start date	28 September 2020
	Programme end date	1 December 2021

Module Code	Title	Level	Attempt	Mark	Grade	Credits	ECTS Credits
7CCSMASE	Software Measurement and Testing	7	1	67	P	15	7.5
7CCSMCFC	Computer Forensics and Cybercrime	7	1	71	P	15	7.5
7CCSMCIS	Cryptography	7	1	82	P	15	7.5
7CCSMDLC	Distributed ledgers and crypto-currencies	7	1	61	P	15	7.5
7CCSMNSE	Network Security	7	1	79	P	15	7.5
7CCSMPRJ	MSc Individual Project	7	1	74	P	60	30.0
7CCSMSCT	Security Testing	7	1	57	P	15	7.5
7CCSMSEM	Security Management	7	1	60	P	15	7.5
7CCSMSSEN	Security Engineering	7	1	71	P	15	7.5
TOTAL YEAR 2020/21 CREDITS						180	90.0
TOTAL CREDITS AWARDED						180	90.0

**4.4 Grading scheme and, if available, grade distribution guidance:**

Not available

**4.5 Overall classification of the qualification (in original language):** Pass With Distinction

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**5. Information on the function of the qualification**

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**5.1 Access to further study:**

Not applicable

**5.2 Professional status (if applicable):**

Not applicable

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**6. Additional information**

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King's College London has an agreed set of achievements recorded on the HEAR that are outside the academic curriculum. This section includes prizes won by the student and all items have been verified by King's College London. Other activities, work experience and achievements undertaken by the student may be recorded elsewhere for example in their CV. Information on the criteria for the inclusion of items in section 6.1 can be found at [www.kcl.ac.uk/hear](http://www.kcl.ac.uk/hear).

**6.1 Additional information:**

**6.2 Further information sources:**

[King's College London](http://www.kcl.ac.uk) is one of the world's leading universities with a distinguished history and an acknowledged reputation for contributions to modern life; particularly in the areas of science, medicine, healthcare, social science, education, law and the arts. It is dedicated to the advancement of knowledge, learning and understanding in the service of society. Its aims are:

- To provide students with a range of intellectually stimulating and challenging programmes and courses, and enable them to develop their knowledge and skills;
- To attract the very best students in terms of ability and potential, and provide those students with a world-class learning experience;
- To uphold an outstanding reputation for providing world-class teaching and cutting-edge research;
- To maintain its reputation for friendliness and inclusiveness, and continue to emphasise its tradition of working 'in the service of society'.

We are determined that through our research and knowledge transfer, we will consciously strive to provide a lead to economic, social and cultural regeneration.

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## 7. Certification of the HEAR

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7.1 Date of award:

1 December 2021

7.2 Signature:



Darren Wallis

7.3 Capacity:

Executive Director, Education and Students

7.4 Official stamp or seal:



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## 8. Information on the National Higher Education System

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### Description of Higher Education in England, Wales and Northern Ireland

In England, Wales and Northern Ireland<sup>1</sup>, higher education institutions are independent, self-governing bodies active in teaching, research and scholarship. They are established by Royal Charter or legislation and most are part-funded by government. Higher education (HE) is provided by many different types of institution. In addition to universities and university colleges, whose charters and statutes are made through the Privy Council which advises the Queen on the granting of Royal Charters and incorporation of universities, there are a number of publicly-designated and autonomous institutions within the higher education sector. Publicly funded higher education provision is available in some colleges of further education by the authority of another duly empowered institution. Teaching to prepare students for the award of higher education qualifications can be conducted in any higher education institution and in some further education colleges.

#### Degree awarding powers and the title 'university'

All universities and many higher education colleges have the legal power to develop their own courses and award their own degrees, as well as determine the conditions on which they are awarded. Some HE colleges and specialist institutions without these powers offer programmes, with varying extents of devolved authority, leading to the degrees of an institution which does have them. All universities in existence before 2005 have the power to award degrees on the basis of completion of taught courses and the power to award research degrees. From 2005, institutions in England and Wales that award only taught degrees ('first' and 'second cycle') and which meet certain numerical criteria, may also be permitted to use the title 'university'. Higher education institutions that award only taught degrees but which do not meet the numerical criteria may apply to use the title 'university college', although not all choose to do so. All of these institutions are subject to the same regulatory quality assurance and funding requirements as universities; and all institutions decide for themselves which students to admit and which

staff to appoint. Degrees and other higher education qualifications are legally owned by the awarding institution, not by the state. The names of institutions with their own degree awarding powers ("Recognised Bodies") are available for download at:

<http://www.bis.gov.uk/policies/higher-education/recognised-uk-degrees/recognised-bodies>

Higher education institutions, further education colleges and other organisations able to offer courses leading to a degree of a Recognised Body are listed by the English, Welsh and Northern Irish authorities, and are known as "Listed Bodies". View the list at:

<http://www.bis.gov.uk/policies/higher-education/recognised-uk-degrees/listed-bodies>

#### Qualifications

The types of qualifications awarded by higher education institutions at sub-degree and undergraduate (first cycle) and postgraduate level (second and third cycles) are described in the Framework for Higher Education Qualifications in England, Wales and Northern Ireland (FHEQ). This also includes qualification descriptors that were developed with the HE sector by the Quality Assurance Agency for Higher Education (QAA - established in 1997 as an independent UK-wide body to monitor the standard of higher education provision - [www.qaa.ac.uk](http://www.qaa.ac.uk)). The FHEQ was self-certified as compatible with the Framework for Qualifications of the European Higher Education Area, the qualifications framework adopted as part of the Bologna Process, in February 2009. Foundation degrees, designed to create intermediate awards strongly oriented towards specific employment opportunities, were introduced in 2001. In terms of the European Higher Education Area they are "short cycle" qualifications within the first cycle. The FHEQ is one component of the Credit and Qualifications Framework for Wales (CQFW). The Qualifications and Curriculum Authority (QCA), the Department for Children, Education, Lifelong Learning and

Skills, Wales (DCELLS) and the Council for Curriculum Examination and Assessment, Northern Ireland (CCEA) have established the



Qualifications and Credit Framework (to replace, in time, the National Qualifications Framework (NQF)). These authorities regulate a number of professional, statutory and other awarding bodies which control VET and general qualifications at all levels. The QCF is also incorporated into the CQFW. There is a close association between the levels of the FHEQ and the NQF (as shown overleaf), and other frameworks of the UK and Ireland (see 'Qualifications can cross Boundaries' <https://www.qaa.ac.uk/docs/qaa/quality-code/qualifications-can-cross-boundaries.pdf>)

#### Quality Assurance

Academic standards are established and maintained by higher education institutions themselves using an extensive and sophisticated range of shared quality assurance approaches and structures. Standards and quality in institutions are underpinned by the universal use of external examiners, a standard set of indicators and other reports, by the activities of the QAA, and in professional areas by relevant professional, statutory and regulatory bodies. This ensures that institutions meet national expectations described in the FHEQ: subject benchmark statements, the Code of Practice and programme specifications. QAA conducts peer-review based audits and reviews of higher education institutions with the opportunity for subject-based review as the need arises. The accuracy and adequacy of quality-related information published by the higher education institutions is also reviewed. QAA also reviews publicly funded higher education provision in further education colleges.

#### Credit System

Most higher education institutions in England and Northern Ireland belong to one of several credit consortia and some operate local credit accumulation and transfer systems for students moving between programmes and/or institutions. A framework of national guidelines, the Higher Education Credit Framework for England, was launched in 2008. Credit is also an integral part of the CQFW and the QCF. It may be possible for credit awarded in one framework to be recognised by education providers whose qualifications sit within a different framework. HE credit systems in use in England, Wales and Northern Ireland are compatible with the European Credit Transfer System (ECTS) for accumulation and transfers within the European Higher Education Area, and are used to

#### Admissions

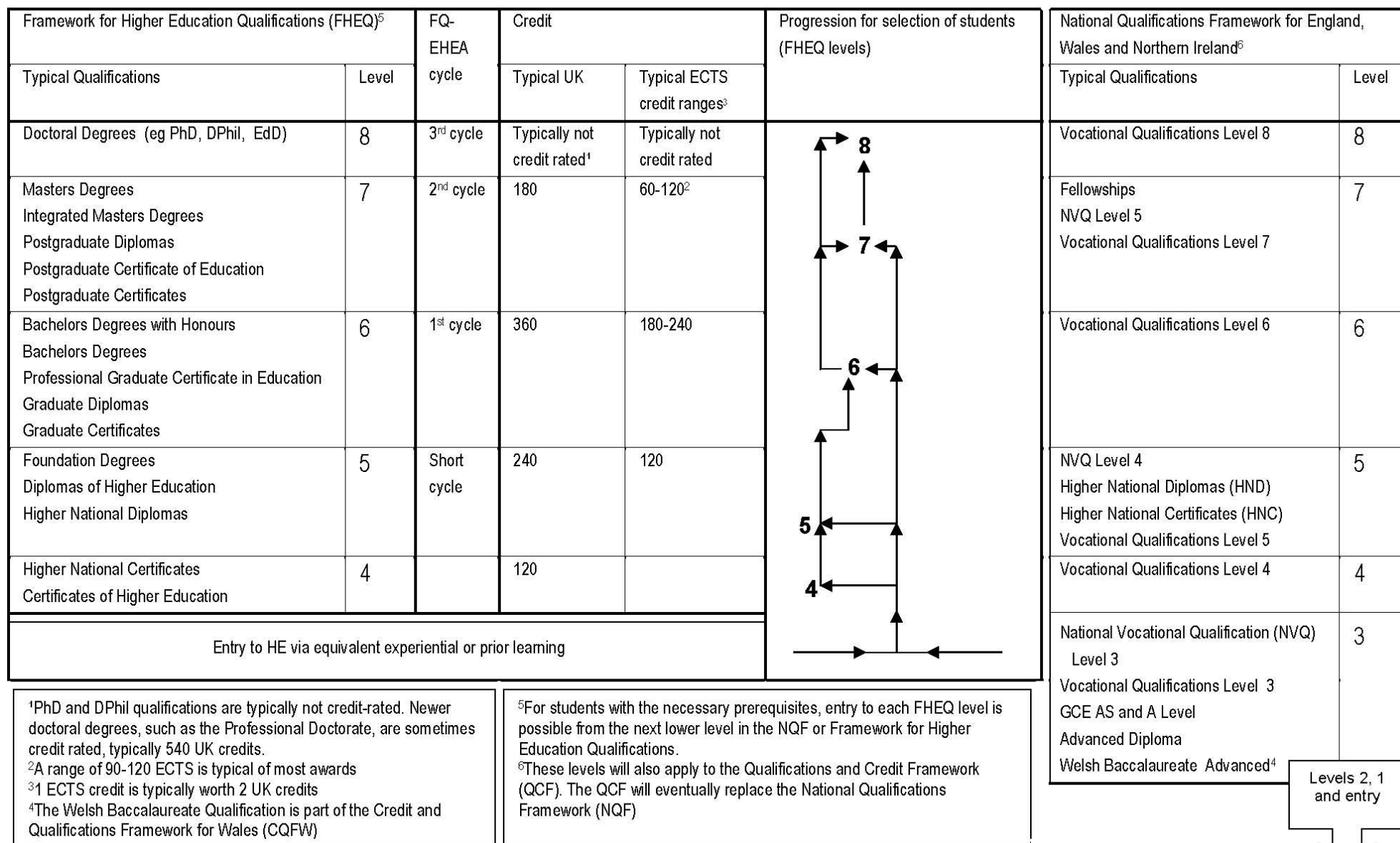
The most common qualification for entry to higher education is the General Certificate of Education at 'Advanced' (A) level. Other appropriate NQF level 3 qualifications and the kite-marked Access to HE Diploma may also provide entry to HE. Level 3 qualifications in the CQFW, including the Welsh Baccalaureate, also provide entry, as do Scottish Highers, Advanced Highers or qualifications at the same levels of the Scottish Credit and Qualifications Framework. Part-time and mature students may enter HE with these qualifications or alternatives with evidenced equivalent prior formal and/or experiential learning. Institutions will admit students whom they believe to have the potential to complete their programmes successfully.

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<sup>1</sup> The UK has a system of devolved government, including for higher education, to Scotland, to Wales and to Northern Ireland. This description is approved by the High Level Policy Forum which includes representatives of the Department for Business, Innovation and Skills, the Scottish Government, the Welsh Assembly Government, the Higher Education Funding Councils for England, Scotland and Wales, the Quality Assurance Agency (QAA), Universities UK (UUK), GuildHE and the National Recognition Information Centre for the UK (UK NARIC)



## Diagram of higher education qualification levels in England, Wales and Northern Ireland





电子科技大学  
University of Electronic Science and Technology of China

# 学士学位证书

王佳影 女，1998 年 3 月 17 日生。在电子科技大学完成了  
网络工程 专业本科学习计划，业已毕业。

经电子科技大学学位评定委员会审议，授予 工学 学士学位。



校 长

学位评定委员会主席

曾勇

证书编号: 1061442020003810

二〇二〇 年 六 月 十二 日

(普通高等教育本科毕业生)

UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA

CERTIFICATE FOR BACHELOR'S DEGREE

This is to certify that Ms. Wang Jiaying, female, born on March 17, 1998, majored in Network Engineering at University of Electronic Science and Technology of China (UESTC), has completed the requirements as stipulated in an undergraduate program with satisfactory results and hereby is granted graduation. Approved by the Academic Degree Appraisal Committee of UESTC, Ms. Wang has been awarded the Bachelor's Degree of Engineering.

Zeng Yong, President of UESTC  
and Chairman of the Academic  
Degree Appraisal Committee

Cert. No.: 1061442020003810

Issue Date: June 12, 2020



普通高等学校

# 毕业证书



学生 王佳影 性别 女, 1998 年 3 月 17 日生, 于 2016 年  
9 月至 2020 年 6 月在本校 网络工程 专业

四年制本科学习, 修完教学计划规定的全部课程, 成绩合格, 准予毕业。

校 名: 电子科技大学

校 长:

曾 勇

证书编号: 106141202005003810

二〇二〇年 六 月 十二 日

UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA

ARCHIVES  
DUPLICATE  
DIPLOMA  
VERIFICATION

This is to certify that Ms. Wang Jiaying, female, born on March 17, 1998, majored in Network Engineering at University of Electronic Science and Technology of China (UESTC) from September 2016 to June 2020, has completed the requirements as stipulated in a Four-Year undergraduate program with satisfactory results and hereby Ms. Wang is granted graduation.

Zeng Yong, President of UESTC

Cert. No.: 106141202005003810

Issue Date: June 12, 2020





# 电子科技大学本科学生成绩单

Official Undergraduate Transcript of  
University of Electronic Science and Technology of China

No.2006,Xiyuan Ave,  
West Hi-tech Zone  
Chengdu,Sichuan 611731  
P.R.China

Name:Wang Jiaying

Student ID:2016010902028

Sex: Female

Date of Birth: 1998-03-17

Date of Enrollment:2016-09-01

Education System: 4 Years

School:School of Information and Communication Engineering

Major:Network Engineering

## Compulsory courses

Courses	Term	Credit	Score	GP	Courses	Term	Credit	Score	GP
Calculus I	2016-2017-1	6.0	77	3.2	Experiment of High-level Language Programming	2016-2017-1	2.5	68	2.3
Linear Algebra and Space Analytic Geometry I	2016-2017-1	4.0	73	2.8	Military Theory	2016-2017-1	1.0	71	2.6
Military Training	2016-2017-1	1.0	98	4.0	Situation and Policies	2016-2017-1	2.0	87	4.0
The Summary of Chinese Modern History	2016-2017-1	2.0	79	3.4	Appreciation of Human Civilization	2016-2017-2	1.0	A	4.0
Experiment of Electronic Circuit	2016-2017-2	1.0	63	1.8	Ideological and Moral Cultivation and the Legal Basis	2016-2017-2	3.0	91	4.0
Music Appreciation	2016-2017-2	2.0	88	4.0	Physical Education II	2016-2017-2	1.0	80	3.5
Digital Logic Circuit and System	2017-2018-1	4.0	76	3.1	Electrical Assembly Practice	2017-2018-1	1.0	93	4.0
Experiment of Digital Application Circuit	2017-2018-1	1.0	83	3.8	Experiment of Software Technology	2017-2018-1	1.0	75	3.0
Fundamentals of Software Technology	2017-2018-1	3.0	76	3.1	Physical Experiment I	2017-2018-1	2.0	75	3.0
Physics II	2017-2018-1	4.0	64	1.9	Probability and Mathematical Statistics	2017-2018-1	3.5	84	3.9
Table Tennis C	2017-2018-1	1.0	96	4.0	Comparison and Communication between Chinese and Western Cultures	2017-2018-2	2.0	85	4.0
Comprehensive Experiment of Microcomputer System and Embedded System	2017-2018-2	1.0	86	4.0	Computer Communication Network	2017-2018-2	3.0	75	3.0
Course Design of Fundamental Mathematics in Communication Networks	2017-2018-2	0.5	95	4.0	Cross-cultural Communication	2017-2018-2	2.0	85	4.0
Electronic Engineering and Electrical Technology Training	2017-2018-2	1.0	92	4.0	Experiment of Signal Processing	2017-2018-2	1.0	94	4.0
Fundamental Mathematics in Communication Networks	2017-2018-2	4.0	80	3.5	※General English	2017-2018-2	4.0	91	4.0
Physical Experiment II	2017-2018-2	2.0	86	4.0	Stochastic Signal Analysis	2017-2018-2	2.0	79	3.4
Swimming D	2017-2018-2	1.0	96	4.0	Experiment of Database	2018-2019-1	1.0	76	3.1
※Foundations of Electronic Circuits	2018-2019-1	6.0	67	2.2	Fundamental Engineering Training	2018-2019-1	1.0	88	4.0
Principle and Application of Database	2018-2019-1	1.5	79	3.4	Principle of Communications	2018-2019-1	4.0	86	4.0
The Outline of Mao Tse-tung Thought and Socialist Theoretical System with Chinese Characteristics	2018-2019-1	6.0	89	4.0	the art and approach of management	2018-2019-1	2.0	93	4.0
Access Networks	2018-2019-2	3.0	80	3.5	※High-level Language Programming	2018-2019-2	1.5	97	4.0
Integrated Design	2018-2019-2	2.0	90	4.0	Introduction to Philosophy	2018-2019-2	3.0	80	3.5
Introduction to the Basic Principles of Marxism	2018-2019-2	3.0	79	3.4	※Microcomputer System Theory and Embedded System Design	2018-2019-2	4.0	76	3.1
Network Security	2018-2019-2	2.0	85	4.0	※Physical Education I	2018-2019-2	1.0	86	4.0
※Signals and Systems	2018-2019-2	4.5	91	4.0	Software Engineering	2018-2019-2	2.0	79	3.4
※TCP/IP Protocols	2018-2019-2	3.0	88	4.0	※Calculus II	2019-2020-1	5.0	78	3.3
College-student Physique Test	2019-2020-1	1.0	81	3.6	※Commercial English	2019-2020-1	2.0	88	4.0
Engineering Internship	2019-2020-1	1.0	83	3.8	※Physics I	2019-2020-1	4.0	85	4.0
Undergraduate Thesis	2019-2020-2	8.0	80	3.5					







# 电子科技大学本科学生成绩单

Official Undergraduate Transcript of  
University of Electronic Science and Technology of China

No. 2006, Xiyuan Ave,  
West Hi-tech Zone  
Chengdu, Sichuan 611731  
P.R. China

Name: Wang Jiaying

Student ID: 2016010902028

Sex: Female

Date of Birth: 1998-03-17

Date of Enrollment: 2016-09-01

Education System: 4 Years

School: School of Information and Communication Engineering

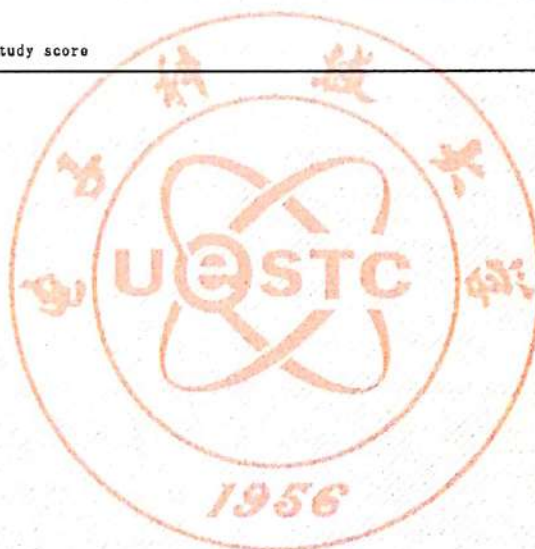
Major: Network Engineering

## Elective courses

Courses	Term	Credit	Score	GP	Courses	Term	Credit	Score	GP
Academic cognition and career planning	2016-2017-1	2.0	91	4.0	Introduction of Information and Communication Engineering	2016-2017-1	1.0	86	4.0
Basics of Photography	2016-2017-2	2.0	83	3.8	Advanced mathematical experiment and Its Application Challenge	2017-2018-1	3.0	94	4.0
Planting and life	2017-2018-1	2.0	94	4.0	University-level Outstanding Individual in Social Practices	2017-2018-1	3.0	90	4.0
Advanced Algorithms and Program Design Experiments	2017-2018-2	3.5	86	4.0	Humanistic Quality Education of University Students	2017-2018-2	2.0	84	3.9
The Performance Evaluation Of Network Programing Model	2017-2018-2	1.0	Pass	4.0	3D Modeling and 3D Printing Experiment	2018-2019-1	1.0	92	4.0
A brilliant Communication world	2018-2019-1	1.0	90	4.0	Career Planning	2018-2019-1	1.0	96	4.0
Local Area Networks and Metropolitan Area Networks	2018-2019-1	3.0	85	4.0	Management of Technology and Entrepreneurship	2018-2019-1	2.0	83	3.8
Short-term travel abroad to exchange	2018-2019-1	1.0	85	4.0	vocal training	2018-2019-1	2.0	90	4.0

Weighted Average Mark: 82.70  
GPA: 3.57

Note: △ represents make-up score, ※ represents re-study score



# 电子科技大学本科学成绩单相关说明

## Clarification of UESTC Undergraduate Academic Transcript

### 1. 平均学分绩点计算公式 (GPA Formula)

平均学分绩点 =  $\sum (\text{成绩绩点} \times \text{课程学分}) / \sum \text{课程学分}$

GPA =  $\sum (\text{course grade point} \times \text{course credits}) / \sum \text{course credits}$

### 2. 加权平均分计算公式 (Weighted Average Mark Formula)

加权平均分 =  $\sum (\text{成绩} \times \text{课程学分}) / \sum \text{课程学分}$

Weighted Average Mark =  $\sum (\text{course percentage score} \times \text{course credits}) / \sum \text{course credits}$

### 3. 各种分制绩点的算法 (calculating method of every grade point system)

分制 (Point System)	成绩 (Score)	对应成百分制成绩 (Corresponding scores in percentile system)	对应的绩点 (Corresponding grade points)	备注 (Remarks)
百分制 (Percentile System)	85~100	/	4	1 分为 0.1 (One point is 0.1)
	60~84	/	1.5~3.9	
	60 以下 (Under 60)	/	0	
中文五级制 (Chinese Five-level System)	优秀 (Excellent)	95	4	
	良好 (Good)	85	4	
	中等 (Average)	75	3	
	及格 (Pass)	65	2	
	不及格 (Fail)	55	0	
英文五级制 (English Five-level System)	A	90	4	A+、A-对应百分制成绩分别上下浮动 2 分, 其他等级同此 (The corresponding percentile scores of A+, A- are floating up or down 2 points, which is the same as other levels)
	B	85	4	
	C	75	3	
	D	65	2	
	E	55	0	
二级制 (Two-level System)	通过 (Pass)	85	4	
	不通过 (Fail)	0	0	

### 4. 学时与学分换算标准 (Schooling Hours and Credits)

理论课程: 1 学分 ≈ 16 学时 Theoretical Courses: 1 credit ≈ 16 schooling hours

实验课程: 1 学分 ≈ 16 学时 Experiment Courses: 1 credit ≈ 16 schooling hours

实践课程: 1 学分 ≈ 2 周 Practice Courses: 1 credit ≈ 2 weeks

### 5. 交流生成绩 (Exchange Courses)

参加国内外交流学习的学生所取得的成绩不在此成绩单中, 其成绩证明需由参加交流学习的学校出具。

This transcript doesn't contain the courses which UESTC students get in other university in China or other regions and countries. The transcript contains these exchange courses should be offered by other university.