TSINGHUA UNIVERSITY
ACADEMIC TRANSCRIPT

Student Name Sang Jinnan

Student No. 2017010549 **Student Type** Undergraduate **Date of Admission** August,2017

School/Department Department of Automation **Major** Automation

Course Number	Course Title	Credit	Grade	Points	Equivalent 100-point value*	Year-Semester
12090043	Military Theory and Skill Training	3	A-	4.0	92	2017-Summer
00050071	Introduction to Sustainable Development	1	P	N/A	N/A	2017-Autumn
00680172	China's Plans: Global Governance Pattern and National Diplomatic Strategy	2	P	N/A	N/A	2017-Autumn
10421055	Calculus A(1)	5	A-	4.0	92	2017-Autumn
10421094	Linear Algebra(1)	4	A	4.0	98	2017-Autumn
10440103	General Chemistry A	3	A+	4.0	100	2017-Autumn
10610183	Ideological Moral and Legal Education	3	A-	4.0	92	2017-Autumn
10641012	Listening & Speaking for Academic Purposes (1)	2	B+	3.6	87	2017-Autumn
10720011	Physical Education(1)	1	B+	3.6	87	2017-Autumn
20120283	Introduction to Mechanical Engineering	3	A-	4.0	92	2017-Autumn
60640082	Russian as Second Foreign Language(1)	2	A+	4.0	100	2017-Autumn
00590043	Modern China Studies	3	A	4.0	98	2018-Spring
00690772	Russian Studies	2	P	N/A	N/A	2018-Spring
10421084	Calculus B(2)	4	A	4.0	98	2018-Spring
10421102	Linear Algebra(2)	2	A	4.0	98	2018-Spring
10430484	Physics for Scientists and Engineers B(1)	4	A	4.0	98	2018-Spring
10610193	Outline of Modern Chinese History	3	A	4.0	98	2018-Spring
10641032	Listening & Speaking for Academic Purposes (3)	2	B	3.3	82	2018-Spring
10720021	Physical Education(2)	1	B	3.3	82	2018-Spring
20740102	Programming Fundamentals	2	A-	4.0	92	2018-Spring
30120182	Training for General Application of English	2	B	3.3	82	2018-Summer
30120304	Practice of Design and Manufacturing Fundamentals	4	B+	3.6	87	2018-Summer
00510133	Accounting Principles	3	B	3.3	82	2018-Autumn
00510273	International Economics	3	A-	4.0	92	2018-Autumn
00510454	Principles of Economics	4	B+	3.6	87	2018-Autumn
00510523	Public Finance	3	B	3.3	82	2018-Autumn
00701344	The Analysis of International Relations	4	B+	3.6	87	2018-Autumn
01510202	Smart Things and Intelligence Systems	2	P	N/A	N/A	2018-Autumn
02070012	Introduction to the Communist Party of China	2	P	N/A	N/A	2018-Autumn
10220012	The Fundamental of Computer: The Hardware/Software Interface	2	B+	3.6	87	2018-Autumn
10430494	Physics for Scientists and Engineers B(2)	4	A-	4.0	92	2018-Autumn
10430782	Lab. of Physics A(1)	2	A-	4.0	92	2018-Autumn
10610204	Principle of Marxist Philosophy	4	A	4.0	98	2018-Autumn
10641022	Listening & Speaking for Academic Purposes (2)	2	B+	3.6	87	2018-Autumn
10720031	Physical Education(3)	1	A-	4.0	92	2018-Autumn
20220453	electrical engineering and electronics -A	3	B	3.3	82	2018-Autumn
20310334	Theoretical Mechanics	4	A-	4.0	92	2018-Autumn
42540371	Student Research Training for summer social practice project(1)	1	A-	4.0	92	2018-Autumn
10420243	Stochastic Mathematical Methods	3	B+	3.6	87	2019-Spring
10420252	Introduction to Complex Analysis	2	A	4.0	98	2019-Spring
10610224	Introduction to Mao Zedong Thoughts and Theoretical System of Socialism with Chinese Characteristic	4	A+	4.0	100	2019-Spring

Total Credits: 230.0 **GPA:** 3.74 **Date of Graduation:** June,2021 **Degree Conferred:** Bachelor of Engineering

*** Refer to the back for description of the Equivalent 100-point value**

University Registrar: 尹佳

Official Seal:

Date Printed: March 28, 2023

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Student Name Sang Jinnan

Student No. 2017010549 **Student Type** Undergraduate **Date of Admission** August,2017

School/Department Department of Automation **Major** Automation

Course Number	Course Title	Credit	Grade	Points	Equivalent 100-point value*	Year-Semester
10641082	Reading & Writing for Reviews	2	A-	4.0	92	2019-Spring
10720041	Physical Education(4)	1	C+	2.6	75	2019-Spring
10720150	Swimming Competency Test	0	P	N/A	N/A	2019-Spring
20220221	Lab. of Principle of Circuits	1	B	3.3	82	2019-Spring
20220494X	Principles of Electric Circuits	4	A	4.0	98	2019-Spring
20250064	Fundamentals of Analog Electronics	4	B+	3.6	87	2019-Spring
30250064	Computer Principles and Applications	4	A	4.0	98	2019-Spring
30250203	Data Structures	3	A-	4.0	92	2019-Spring
40250144	Signals and System Analysis	4	A	4.0	98	2019-Spring
42540182	Student Research Training for student-initiated project	2	A	4.0	98	2019-Spring
60640392	Russian as Second Foreign Language(3)	2	P	N/A	N/A	2019-Spring
00510463	Intermediate Microeconomics	3	W	N/A	N/A	2019-Spring
20250133	Contemporary Electronic System Design	3	B+	3.6	87	2019-Summer
30220461	Introduction to Microcontroller	1	P	N/A	N/A	2019-Summer
30250182	C++Programme Design and Training	2	A	4.0	98	2019-Summer
00240332	Introduction to Deep Learning	2	P	N/A	N/A	2019-Autumn
00740113	Object Oriented and Visual Programming	3	P	N/A	N/A	2019-Autumn
10420262	Introduction to Methods of Mathematics and Physics	2	A+	4.0	100	2019-Autumn
10720110	Physical Education(1)	0	B	3.3	82	2019-Autumn
20250103	Digital Electronics	3	B	3.3	82	2019-Autumn
30210041	Introduction to Information Science and Technology	1	B+	3.6	87	2019-Autumn
30250093	Computer Networks and Applications	3	B+	3.6	87	2019-Autumn
30250143	Applied Stochastic Processes	3	C	2.3	71	2019-Autumn
30250285	Theory of Automatic Control	5	B+	3.6	87	2019-Autumn
30250333	Foundation of Artificial Intelligence	3	B+	3.6	87	2019-Autumn
40220862	digital signal processing	2	P	N/A	N/A	2019-Autumn
42540012	Students Research Training	2	B+	3.6	87	2019-Autumn
30140482	Introduction to Scientific Computing	2	W	N/A	N/A	2019-Autumn
10420854	Experiments in Mathematics	4	A-	4.0	92	2020-Spring
10430811	Lab. of Physics B(2)	1	A	4.0	98	2020-Spring
10720120	Physical Education(2)	0	A-	4.0	92	2020-Spring
20250193	Operations Research	3	A	4.0	98	2020-Spring
21550012	Laboratory of Electronic Circuits	2	B	3.3	82	2020-Spring
30250323	Smart Sensing and Measuring	3	A-	4.0	92	2020-Spring
30250344	Fundamental of Electrical Energy Conversion System	4	A-	4.0	92	2020-Spring
40240432	Formal Languages and Automata	2	B+	3.6	87	2020-Spring
40240443	Computer Architecture	3	A-	4.0	92	2020-Spring
40250192	Introduction to Systems Engineering	2	A+	4.0	100	2020-Spring
40250745	Practice of Speciality	5	B+	3.6	87	2020-Summer
30240382	Principles and Practice of Compiler Construction	2	B+	3.6	87	2020-Autumn
40240354	Computer Organization	4	C+	2.6	75	2020-Autumn
40240572	Computer Network Security Technology	2	P	N/A	N/A	2020-Autumn
40250562	Intelligent Optimization Algorithms and Its Applications	2	P	N/A	N/A	2020-Autumn

Total Credits: 230.0 **GPA:** 3.74 **Date of Graduation:** June,2021 **Degree Conferred:** Bachelor of Engineering

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TSINGHUA UNIVERSITY
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Student Name Sang Jinnan

Student No. 2017010549 **Student Type** Undergraduate **Date of Admission** August,2017

School/Department Department of Automation **Major** Automation

Course Number	Course Title	Credit	Grade	Points	Equivalent 100-point value*	Year-Semester
42540023	Students Research Training	3	A+	4.0	100	2020-Autumn
70250383	Statistical Methods with Applications	3	W	N/A	N/A	2020-Autumn
80470262	Computer Systems and Architectures	2	W	N/A	N/A	2020-Autumn
40250650	Diploma Projects(Thesis)	15	B+	3.6	87	2021-Spring
30240243	Operating Systems	3	W	N/A	N/A	2021-Spring
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Total Credits: 230.0 **GPA:** 3.74 **Date of Graduation:** June,2021 **Degree Conferred:** Bachelor of Engineering

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KEY TO TRANSCRIPT

I. COURSE NUMBERING SYSTEM

Each course number consists of 8-10 characters.

The first character indicates the course level:

0-4 or H-T, W = undergraduate courses

6-9, A-G or X-Z = graduate courses

II. CREDIT

Credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session. For 1 unit of credit, either one hour per week is allotted to lecture or discussion, or two hours per week are allotted to laboratory, while more hours are needed for preparation or subsequent reading and study.

III. THE RECORD ENDS WITH **********.

IV. DATE OF GRADUATION and DEGREE CONFERRED

For currently enrolled undergraduates, the columns of DATE OF GRADUATION and DEGREE CONFERRED are **********.

V. GRADING SYSTEMS

a) EFFECTIVE for students who matriculated in spring 2015 and after

(i) Tsinghua University converted to a LETTER GRADING SYSTEM. The table below shows the grades in detail.

(ii) Credits are given for A+, A, A-, B+, B, B-, C+, C, C-, D+, D, P and EX.

(iii) W: Withdrew.

(iv) I: Incomplete. Marked when a student's application is approved for not attending the final exam.

(v) EX: Exemption. Students receive credits for exempted courses.

Grade	Grade Points	Corresponding 100-point Range	Equivalent 100-point value*
A+	4.0	95-100	100
A			98
A-		90-94	92
B+	3.6	85-89	87
B	3.3	80-84	82
B-	3.0	77-79	78
C+	2.6	73-76	75
C	2.3	70-72	71
C-	2.0	67-69	68
D+	1.6	63-66	65
D	1.3	60-62	61
F	0	0-59	0
P	N/A	N/A	N/A
F	N/A	N/A	N/A

* For the transition period in 2015-2018 between the 100-point grading system and the letter grading system, Tsinghua has provided a corresponding average of values in the 100-point range of each grade. The equivalent 100-point value for course receiving credits corresponds to the median in the range. Students who matriculated in spring 2019 and after no longer use the equivalent 100-point value.

b) EFFECTIVE for students who matriculated prior to spring 2015

(i) 100-POINT GRADING SYSTEM: Credits are given for 60 points and above.

(ii) PASS/FAIL SYSTEM: Credits are given for PASS.
DISTINCTION (for undergraduates only): Credits are given for DISTINCTION.

(iii) REPEATED COURSES: The transcript displays only the latest result of a repeated course. Repeated courses are designated with an "Rn" code beside the final grade, where "n" indicates the number of times the course was repeated.

VI. GRADING POLICY REFORM 2015-2018

In the ten years prior to spring 2015, 30 percent of A-range grades have been given. From fall 2015, Tsinghua initiated a grading reform: A-range grades (A+, A, A-) were to account for 20 percent of the grades given in all courses. In Spring 2019, the faculty reaffirmed its commitment to fair and transparent assessment and removed its numeric target for the percent of A-range grades.

VII. GPA CALCULATION

$$\text{GPA} = \frac{\sum \text{Course Credit} * \text{Grade Point}}{\sum \text{Course Credit}}$$

GPA is shown for students who matriculated in spring 2015 and after in a 4.0 grading scale. Course grades with N/A (Not Applicable) should not be included in GPA calculation.