



北京理工大学
BEIJING INSTITUTE OF TECHNOLOGY

English Taught Programs for Undergraduates

- 1. Mechanical Engineering**
- 2. Automation**
- 3. Electronics Science and Technology**
- 4. Computer Science and Technology**
- 5. International Economics and Trade**

1. English-taught Program in Mechanical Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	101031102	工程制图基础（全英文）	Engineering Graphics Fundamental	2	2	March
2	101037302	工程制图（英文）	Engineering Graphics	4	2	March
3	101037326	工程概论（英文）	Introduction to Engineering	1	3	September
4	101037324	工程设计实践（英文）	Engineering Design Practice	2	3	September
5	101037334	工程创新实践（双语）	Engineering Innovative Practice	1	3	September
6	100033415	计算方法（英文）	Computational Methods	2	4	March
7	101037304	机械原理（英文）	Theory of Machines and Mechanisms	3	4	March
8	101037305	工程材料与应用（英文）	Principle and Application of Engineering materials	3	4	March
9	101037306	热力学（英文）	Thermodynamics	3	4	March
10	101037307	机械设计（英文）	Machine Design	3	5	September
11	101037309	传热学（英文）	Hear Transfer	2	5	September
12	101037310	机械振动（英文）	Mechanical Vibrations	3	5	September
13	101037311	系统建模与仿真（英文）	Modelling and Simulation of Systems	3	5	September
14	101037325	计算机辅助设计与工程（英文）	Computer-Aided Design and Engineering	3	5	September
15	101037315	控制原理与测试（英文）	Principle of Control and Instrumentation	3	6	March
16	101037316	流体力学（英文）	Fluid Mechanics	3	6	March

17	101037317	机械制造与装备（英文）	Manufacturing and Machine Tools	4	6	March
18	101037318	内燃机构造与原理（英文）	Internal Combustion Engine Fundamentals	4	6	March
19	101037319	汽车结构与设计（英文）	Automotive Structure and Design	4	6	March
20	101037328	产品设计与开发（英文）	Product Design and Development	2	7	September
21	101037329	动力与储能电池技术（英文）	Battery Technologies for Vehicle & Energy Storage Applications	2	7	September
22	101037330	激光智能制造与检测（英文）	Laser-based Intelligent Manufacturing and On-line Analysis	2	7	September
23	101037331	微纳制造前沿进展（英文）	Frontier of Micro/Nano Fabrication	2	7	September
24	101037322	能源系统及设计（英文）	Energy System and Design	3	7	September
25	101037320	工程管理（英文）	Engineering Management	3	7	September
26	101037321	专业课程设计（英文）	Engineering Design Project	3	7	September
27	101037337	工程科学计算（英文）	Scientific Computing Methods in the Realm of Engineering	2	7	September
28	101037335	车辆排放：原理、测试与控制（英文）	Vehicle Emissions: Sources, Measurement, and Control	2	8	March
29	101037336	自动驾驶深度学习（英文）	Deep Learning for Autonomous Driving	2	8	March

2. English-taught Program in Automation

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	101062102	电路分析基础A	Fundamentals of Electric Circuit Analysis	3.5	2	March
2	101062219	电路分析基础实验A	Electric Circuit Lab	1	2	March
3	101062101	工程概论	Introduction to Engineering	1	3	September
4	101062103	数据结构与算法设计	Data Structures and Algorithm Design	2	3	September
5	101062104	模拟电子技术基础A	Analog Electronics A	3.5	3	September
6	101062106	信号分析与处理	Signals and Systems	3	4	March
7	101063107	数字逻辑与CPU	Digital Logic Circuit and CPU	4	5	September
8	101063108	自动控制理论I	Control Theory I	4	5	September
9	101063109	电力电子技术	Power Electronics	3	5	September
10	101063110	电力系统分析	Power Systems Analysis	3	5	September
11	101063111	自动控制理论II	Control Theory II	3	6	March
12	101063112	电机及控制	Electrical Machine and Drive	5	6	March
13	101063113	传感器与检测技术	Sensor and Measurement Technology	2.5	6	March

3. English-taught Program in Electronics Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	101053202	C语言程序设计	C Language Programming	3	1	September
2	101051247	电路分析基础	Fundamentals of Electric Circuit Analysis	4	2	March
3	101051220	电路与模拟电子学	Circuits and Analog Electronics	6	3	September
4	101051245	电工和电子技术I	Electrical and Electronic Technology I	3.5	3	September
5	101051221	数字电路与系统	Digital Circuits and Systems	4	4	March
6	101051246	电工和电子技术 II	Electrical and Electronic Technology II	3.5	4	March
7	101052213	信号与系统	Signals and Systems	4	4	March
8	101054203	电磁场理论与微波工程	Electromagnetic Fields Theory and Microwave Engineering	4	4	March
9	101056303	半导体物理与器件建模	Semiconductor Physics and Device Modeling	3	4	March
10	101058406	数据通信与网络	Data Communication and Network	2	5	September
11	101052314	数字信号处理	Digital Signal Processing	4	5	September
12	101057314	数字通信原理	Principles of Digital Communications	4	5	September
13	101056415	集成电路工程	Integrated Circuits Engineering	4	6	March
14	101057410	电子通信系统	Electronic communication system	4	6	March
15	101053318	计算机原理与应用	Computer Principle and Application	4	6	March

4. English-taught Program in Computer Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	100076101	大数据技术导论	Introduction to Big Data Technology	2	3	September
2	100071015	数据结构与算法设计	Data Structures and Algorithms	5	3	September
3	100070010	Python语言程序设计	Introduction to Programming using Python	3	4	March
4	100072103	数据库原理与设计	Database Principle and Design	3	4	March
5	100074601	计算机图形学	Computer Graphics	2.5	4	March
6	100072107	面向对象技术与方法	Object-Oriented Programming	2.5	4	March
7	100070103	数字逻辑基础	Fundamentals of Digital Circuits	4	4	March
8	100076204	计算机组成与体系结构	Computer Organization and Architecture	3	5	September
9	100071007	操作系统	Operating System	3	5	September
10	100085042	数据仓库与数据挖掘	Data Warehouse and Data Mining	3	5	September
11	100081063	大数据分析技术	Big Data Analytics	2	5	September
12	100086024	人工智能基础	Introduction of Artificial Intelligence	2	5	September
13	100071011	计算机网络	Computer Networks	3	6	March
14	100074320	编译原理与设计	Compiler Principles and Design	3	6	March
15	100081062	大数据处理技术	Big Data Processing Technology	2	6	March
16	100076218	数据科学与算法	Data Science and Algorithms	2	6	March
17	100074302	机器学习初步	Machine Learning Fundamentals	2	6	March
18	100081064	大数据应用算法	Big Data Application Algorithm	2	7	September

5. English-taught Program in International Economics and Trade

No.	Course Code	Course Title(in Chinese)	Course Title(in English)	Credits	Semester	Semester Time
1	101210006	中级微观经济学	Microeconomics	3	2	Spring
2	101210026	会计学基础	Fundamentals of Accounting	2	2	Spring
3	101210005	管理学原理	Principles of Management	2	2	Spring
4	101210040	商业伦理与企业社会责任	Business Ethics and Social Responsibility	2	2	Spring
5	101210311	数据库技术及应用	Database Techniques and Application	2	2	Spring
6	101210075	国际经济学I	International Economics I	2	3	Fall
7	101210025	宏观经济学	Macroeconomics	2	3	Fall
8	101210027	财务管理概论	Financial Management	2	3	Fall
9	101210038	经济法	Law for Economics	2	3	Fall
10	101210264	中级微观经济学	Intermediate Microeconomics	2	3	Fall
11	101210097	国际市场营销	International Marketing	3	4	Spring
12	101210028	应用统计学	Applied Statistics	2	4	Spring
13	101210035	货币银行学	Monetary and Banking	2	4	Spring
14	101210040	中级计量经济学	Econometrics	2	4	Spring
15	101210263	国际商务沟通	International Business Communication	3	4	Spring
16	101210265	中级宏观经济学	Intermediate Macroeconomics	2	4	Spring

17	101210073	跨文化管理	Intercultural Management	2	5	Fall
18	101210324	科学计量与数据分析	Scientometrics and data analytics	2	5	Fall
19	101210325	机器学习	Machine Learning	2	5	Fall
20	101210039	国际贸易实务	Practices of International Trade	2	6	Spring
21	101210082	国际商务环境	International Business Environment	2	6	Spring
22	101210083	世界经济	World Economy	2	6	Spring
23	101210270	中国经济	China Economy	2	6	Spring
24	101210078	世界贸易组织	World Trade Organization	2	6	Spring
25	101210037	国际商法	International Business Law	2	6	Spring
26	101210036	国际经济学 II	International Economics II	2	6	Spring
27	101210063	管理信息系统分析与设计	Analysis and Design of Management Information Systems	3	6	Spring
28	100210138	信息技术专题	Special Issues on Information Technologies	2	6	Spring
29	101210266	中级计量经济学	Intermediate Econometrics	2	6	Spring
30	101210322	信息系统前沿	Information System Frontiers	2	6	Spring
31	101210323	人工智能与机器人管理	AI & Robotics Management	2	6	Spring