



**北京理工大学**  
BEIJING INSTITUTE OF TECHNOLOGY

## **English-taught Programs for Graduates**

- ★ **Mechanical Engineering**
- ★ **Electronics Science and Technology**
- ★ **Information and Communication Engineering**
- ★ **Control Science and Engineering**
- ★ **Computer Science and Technology**
- ★ **Software Engineering**
- ★ **Chemistry**
- ★ **Chemical Engineering and Technology**
- ★ **Law**
- ★ **MBA**

## English-taught Program in Mechanical Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	21-080200-B21-03	机械振动	Fundamentals of Mechanical System Dynamics	3	1	September
2	21-080200-B19-03	弹塑性力学	Elastic-Plastic Mechanics	2	1	September
3	21-080200-B23-03	CAD/CAM/CAE技术	Principles of CAD/CAM/CAE	2	1	September
4	21-080200-B24-03	机械优化设计	Structural Design with Optimization Method	2	1	September
5	21-080200-B18-03	现代测试技术	Modern Measurement Technology	2	2	March
6	21-080200-B17-03	现代控制理论基础	Fundamentals of Modern Control Theory	3	2	March
7	21-080200-B20-03	高等工程热力学与传热学	Advanced Engineering Thermodynamics and Heat Transfer	3	2	March
8	21-080200-B22-03	有限元法原理	Principle of Finite Element Method	2	2	March

## English-taught Program in Electronics Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0500018	统计信号处理B	Statistical Signal Processing B	3	1	September
2	0500020	医学图像处理与分析	Medical Image Processing & Analysis	3	1	September
3	0500054	语音信号数字处理	Digital Speech Signal Processing	2	1	September
4	0500004	现代天线理论与技术B	Modern Antenna Theory and Technology B	2	2	March
5	0500007	射频电路设计理论与应用	RF Circuit Design Theory and Application	3	2	March
6	0500014	超大规模集成电路设计导论	Introduction to VLSI Design	3	2	March
7	0500016	SOC的IP设计实现	The IP of SOC Design Implementation	3	2	March
8	0500026	FPGA与SOPC设计基础	Foundations of FPGA and SOPC Design	3	2	March
9	0500051	移动通信原理与实践	Mobile Communications Theory and Practice	3	2	March
10	0500052	扩频通信	Spread Spectrum Communication	2	2	March
11	0500053	多源数据融合理论与应用	Multi-source Data Fusion Theory and Application	2	2	March

## English-taught Program in Information and Communication Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0500064	工程信息论	Information Theory and Applications in Engineering	3	1	September
2	0500065	通信网络基础	Fundamental Communication Networks	3	1	September
3	0500069	雷达系统导论	Introduction to Radar Systems	2	1	September
4	0500071	高等数字通信	Advanced Digital Communications	2	1	September
5	0500073	统计信号参数估计理论	Statistical Signal Parameter Estimation Theory	2	1	September
6	0500078	量子雷达原理	Quantum Radar Principle	2	1	September
7	0500054	语音信号数字处理	Digital Speech Signal Processing	2	1	September
8	0500051	移动通信原理与实践	Mobile Communications Theory and Practice	3	2	March
9	0500052	扩频通信	Spread Spectrum Communication	2	2	March
10	0500053	多源数据融合理论与应用	Multi-source Data Fusion Theory and Application	2	2	March
11	0500079	高分辨雷达	High Resolution Radar	2	2	March

## English-taught Program in Control Science and Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0600003	自动控制中的线性代数	Linear Algebra with Applications in Automatic Control	3	1	September
2	0600006	随机过程理论及应用	Stochastic Process Theory and Applications	3	1	September
3	0600004	线性控制系统	Linear Systems Theory	3	1	September
4	0600010	系统工程原理及应用	Systems Engineering Principles and Application	2	1	September
5	0600007	最优与鲁棒控制	Optimal and Robust Control	3	2	March
6	0600017	计算机与分布式控制系统	Computer and Distributed Control Systems	2	2	March
7	0600019	多源信息滤波与融合	Multi-source Information Filtering and Fusion	2	2	March

## English-taught Program in Computer Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0700020	Web挖掘	Web Mining	2	1	September
2	0700012	高级操作系统	Advanced Operating Systems	3	1	September
3	0700023	计算机科学与技术前沿	Computer Science and Technology Frontier	3	1	September
4	0700032	图像与视频处理	Image and Video Processing	2	1	September
5	0700033	内容管理与数字图书馆技术	Content Management and Digital Library	2	1	September
6	0700008	计算理论	Theory of Computation	3	2	March
7	0700022	算法与算法复杂性理论	Theory of Algorithms and Algorithmic Complexity	3	2	March
8	0700030	社交网络分析	Social Network Analysis	2	2	March
9	0700035	无线网络与移动计算	Wireless Network and Mobile Computing	2	2	March
10	0700016	机器学习与知识发现	Machine Learning and Knowledge Discovery	2	2	March
11	0700019	计算机图形与图像处理	Computer Graphics and Image Processing	3	2	March
12	0700040	最优化方法	Optimization Methods	2	2	March

## English-taught Program in Software Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0800019	云计算	Cloud Computing	2	1	September
2	0800006	软件理论与工程	Software Theory and Engineering	3	1	September
3	0800005	软件工程前沿	Frontiers of Software Engineering	1	1	September
4	0800004	数理逻辑与方法	Mathematical Logic	3	1	March
5	0800020	软件工程实训	Software Engineering Training	2	2	March
6	0800008	软件质量保障	Software Quality Assurance	2	2	March
7	0800009	数据科学与工程	Data Science and Engineering	2	2	March
8	0800010	智能科学技术	Intelligent Science and Technology	2	2	March
9	0800011	数字媒体技术	Digital Media Technology and Application	2	2	March

## English-taught Program in Chemistry

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	1900006	X射线晶体学	X-Ray Crystallography	3	1	September
2	1900010	有机波谱分析	Spectrometric Identification of Organic Compounds	2	1	September
3	1900016	配位化学	Coordination Chemistry	3	1	September
4	1900017	固体化学与物理	Solid State Chemistry and Physics	2	1	September
5	1900020	高等有机化学专题	Advanced Topics in Organic Chemistry	3	1	September
6	1900025	新能源技术	New Energy Technology	2	1	September
7	1900033	现代色谱质谱分析方法及实验	Modern Analytical Techniques for Mass Spectrometry	3	1	September
8	1900007	纳米科学与技术	Nano-science and Technology	2	2	March
9	1900009	高等有机合成实验	Advanced Experiment of Organic Chemistry	3	2	March
10	1900013	电子显微分析	Electron Microscopy	2	2	March
11	1900026	超分子化学	Supramolecular Chemistry	2	2	March



## English-taught Program in Chemical Engineering and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	1000009	波谱分析	Spectroscopic Analysis	2	1	September
2	1000018	杂环化学及应用	Heterocyclic Chemistry and Application	2	1	September
3	1000019	药物制剂与工艺	Pharmaceutical Dosage Forms and Technology	2	1	September
4	1000023	手性合成与药物技术	Asymmetric Synthesis and the Pharmaceutical Applications	2	1	September
5	1000025	高等有机化学进展	Progress in Advanced Organic Chemistry	2	2	March
6	1000028	金属有机化学	Organometallic Chemistry	2	2	March

## English-taught Program in Law

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	2300115	国际法原论	Public International Law	3	1	September
2	2300133	国际空间法专题	International Space Law	2	1	September
3	2300157	法律文献与写作	Legal Research and Writing	1	1	September
4	2300129	国际移民法	International Immigration Law	2	1	September
5	2300130	比较诉讼制度	Comparative Procedural Law	2	1	September
6	2300164	国际经济法专题	International Economical Law	3	2	March
7	2300122	工业产权法前沿问题研究	Industrial Property Rights Frontier Problem	2	2	March
8	2300127	比较合同法	Comparative Contract Law	2	2	March
9	2300132	国际人权法专题	International Human Rights Law	2	2	March
10	2300121	著作权法前沿问题研究	Copyright Law Frontier Problem	2	2	March

## English-taught Program in MBA

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	2100115	跨文化管理	Intercultural Management	2	1	September
2	2100003	商务英语	Business English	3	1	September
3	2100008	会计学	Accounting	2	1	September
4	2100011	人力资源管理	Human Resource Management	2	1	September
5	2100005	管理经济学	Managerial Economics	2	1	September
6	2100012	战略管理	Strategic Management	2	1	September
7	2100009	财务管理	Financial Management	2	1	September
8	2100035	员工关系管理	Employee Relationship Management	2	1	September
9	2100044	创业管理	Entrepreneurial Management	2	1	September
10	2100115	跨文化管理	Intercultural Management	2	2	March
11	2100010	市场营销管理	Marketing Management	2	2	March
12	2100013	管理信息系统	Management Information System	2	2	March
13	2100006	运作管理	Operation Management	2	2	March
14	2100007	管理统计学	Managerial Statistics	2	2	March
15	2100002	商业伦理与企业社会责任	Business Ethics	2	2	March
16	2100015	管理者的领导艺术	The Art of Managerial Leadership	1	2	March

17	2100014	创新与变革管理	Innovation and Reformation Management	2	2	March
18	2100025	能源与环境政策专题	Clean Energy and Environment Policy	2	2	March
19	2100016	国际商务管理	International Business Management	2	2	March