



北京理工大学

BEIJING INSTITUTE OF TECHNOLOGY

English-taught Programs for Graduates

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

English-taught Program in Mechanical Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0301006	先进控制工程	Advanced Control Engineering	2	1	September
2	0301007	机械结构疲劳与寿命设计	Fatigue Life Design of Mechanical Structure	2	1	September
3	0301008	弹性力学	Elasticity	2	1	September
4	0301009	结构优化方法	Structural Optimization Method	2	1	September
5	0301012	CAD/CAM/CAE原理及工程应用	Principle and Application of CAD/CAM/CAE	2	1	September
6	0301014	切削理论与先进制造基础	Cutting Theory and Advanced Machining Processes	2	1	September
7	0301015	现代车辆先进技术	Advanced Technology of Modern Vehicle	2	1	September
8	0301003	高等机械振动	Advanced Mechanical Vibration	3	1	September
9	0301005	计算流体力学	Computational Fluid Dynamics	2	2	March
10	0301010	现代测试技术	Modern Measurement Technology	2	2	March
11	0301011	有限元原理	Principle of Finite Element Method	2	2	March
12	0301013	工程管理	Engineering Management	2	2	March
13	0301001	高等工程数学导论	Introduction to Advanced Engineering Mathematics	3	2	March
14	0301002	现代控制理论基础	Fundamentals of Modern Control Theory	3	2	March
15	0301004	高等工程热力学和传热学	Advanced Engineering Thermodynamics and Heat Transfer	3	2	March

English-taught Program in Electronic Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	0501001	统计信号处理基础	Fundamentals of Statistical Signal Processing	3	1	September
2	0501002	信息论	Information Theory	3	1	September
3	0501003	雷达系统导论	Introduction to Radar Systems	2	1	September
4	0501006	CMOS 模拟集成电路设计	Design Of Analog CMOS Integrated Circuits	3	2	March
5	0501008	医学图像处理与分析	Medical Image Processing & Analysis	3	2	September
6	0501012	语音信号数字处理	Digital Speech Signal Processing	3	1	September
7	0501014	高等数字通信	Advanced Digital Communications	2	1	September
8	0501016	量子雷达原理	Quantum Radar Principle	2	1	September
9	0501019	电磁场与电磁波	Electromagnetic Field and Waves	3	1	September
10	0501004	现代天线理论与技术	Modern Antenna Theory and Technology	3	2	March
11	0501005	射频电路设计理论与应用	RF Circuit Design Theory and Application	3	2	March
12	0501009	FPGA与SOPC设计基础	Foundations of FPGA and SOPC Design	3	2	March
13	0501010	移动通信原理与实践	Mobile Communications Theory and Practice	3	2	March
14	0501011	多源数据融合理论与应用	Multi-source Data Fusion Theory and Application	2	2	March
15	0501013	通信网络基础	Fundamental Communication Networks	3	2	March
16	0501017	高分辨雷达	High Resolution Radar	2	2	March
17	0501018	通信前沿技术专题	Communication Frontier Technology	2	2	March

English-taught Program in Information and Communication Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	0501001	统计信号处理基础	Fundamentals of Statistical Signal Processing	3	1	September
2	0501002	信息论	Information Theory	3	1	September
3	0501003	雷达系统导论	Introduction to Radar Systems	2	1	September
4	0501008	医学图像处理与分析	Medical Image Processing & Analysis	3	2	September
5	0501012	语音信号数字处理	Digital Speech Signal Processing	3	1	September
6	0501013	通信网络基础	Fundamental Communication Networks	3	1	March
7	0501014	高等数字通信	Advanced Digital Communications	2	1	September
8	0501016	量子雷达原理	Quantum Radar Principle	2	1	March
9	0501019	电磁场与电磁波	Electromagnetic Field and Waves	3	1	September
10	0501004	现代天线理论与技术	Modern Antenna Theory and Technology	3	2	March
11	0501005	射频电路设计理论与应用	RF Circuit Design Theory and Application	3	2	March
12	0501006	CMOS模拟集成电路设计	Design Of Analog CMOS Integrated Circuits	3	2	March
13	0501009	FPGA与SOPC设计基础	Foundations of FPGA and SOPC Design	3	2	March
14	0501010	移动通信原理与实践	Mobile Communications Theory and Practice	3	2	March
15	0501011	多源数据融合理论与应用	Multi-source Data Fusion Theory and Application	2	2	March
16	0501017	高分辨雷达	High Resolution Radar	2	2	March
17	0501018	通信前沿技术专题	Communication Frontier Technology	2	2	March

English-taught Program in Control Science and Engineering

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0601001	自动控制中的线性代数	Linear Algebra with Applications in Automatic Control	3	1	September
2	0601003	随机过程理论及应用	Stochastic Process Theory and Applications	3	1	September
3	0601002	线性系统理论	Linear Systems Theory	3	1	September
4	0601007	系统工程原理及应用	Systems Engineering Principles and Application	2	1	September
5	0601004	最优与鲁棒控制	Optimal and Robust Control	3	2	March
6	0601005	计算机与分布式控制系统	Computer and Distributed Control Systems	2	2	March
7	0601006	多源信息滤波与融合	Multi-source Information Filtering and Fusion	2	2	March
8	0601008	现代电力电子学	Modern Power Electronics	2	2	March

English-taught Program in Computer Science and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	SemesterTime
1	0701006	Web挖掘	Web Mining	2	1	September
2	0701003	高级操作系统	Advanced Operating Systems	3	1	September
3	0701001	计算机科学与技术前沿	Computer Science and Technology Frontier	3	1	September
4	0701009	图像与视频处理	Image and Video Processing	2	1	September
5	0701010	内容管理与数字图书馆技术	Content Management and Digital Library	2	1	September
6	0701002	计算理论	Theory of Computation	3	2	March
7	0701007	算法与算法复杂性理论	Theory of Algorithms and Algorithmic Complexity	3	2	March
8	0701008	社交网络分析	Social Network Analysis	2	2	March
9	0701011	无线网络与移动计算	Wireless Network and Mobile Computing	2	2	March
10	0701004	机器学习与知识发现	Machine Learning and Knowledge Discovery	2	2	March
11	0701005	计算机图形与图像处理	Computer Graphics and Image Processing	3	2	March
12	0701012	智能优化方法	Optimization Methods	2	2	March

English-taught Program in Chemistry

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	1001001	配位化学	Coordination Chemistry	3	1	September
2	1001002	高等有机化学专题	Advanced Topics in Organic Chemistry	2	1	September
3	1001003	新能源技术	New Energy Technology	2	1	September
4	1001005	X射线晶体学	X-Ray Crystallography	3	1	September
5	1001006	有机波谱分析	Spectrometric Identification of Organic Compounds	2	1	September
6	1001004	纳米科学与技术	Nano-science and technology	2	2	March
7	1001007	超分子化学	Supramolecular Chemistry	2	2	March
8	1001008	高等有机合成实验	Advanced Experiment of Organic Chemistry	3	2	March

English-taught Program in Chemical Engineering and Technology

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	1001012	药物制剂与工艺	Pharmaceutical Dosage Forms and Technology	2	1	September
2	1001014	药物分子设计	Drug Design	2	1	September
3	1001016	波谱分析	Spectroscopic Analysis	2	1	September
4	1001009	高等有机化学进展	Progress in Advanced Organic Chemistry	2	2	March
5	1001010	高等流体力学	Advanced Fluid Dynamics	2	2	March
6	1001011	化学生物学	Chemical Biology	2	2	March
7	1001013	合成生物技术	Synthetic Biotechnology	2	2	March
8	1001015	杂环化学及应用	Heterocyclic Chemistry and Application	2	2	March

English-taught Program in Law

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	2301001	国际法原论	Principles of Public International Law	3	1	September
2	2301003	国际空间法专题	International Space Law	2	1	September
3	2301002	法律文献与写作	Legal Research and Writing	1	1	September
4	2301006	国际移民法	International Migration Law	2	1	September
5	2301008	比较诉讼制度	Comparative Procedure Law	2	1	September
6	2301004	国际经济法专题	International Economic Law	3	2	March
7	2301005	工业产权法前沿问题研究	Industrial Property Rights Frontier Issues	2	2	March
8	2301007	比较合同法	Comparative Contract Law	2	2	March
9	2301009	国际人权法专题	International Human Rights Law	2	2	March
10	2301010	国际组织法专题	Law of International Organizations	2	2	March

English-taught Program in MBA

No.	Course Code	Course Title	Course Title	Credits	Semester	Semester Time
1	2101029	跨文化管理	Intercultural Management	2	1	September
2	2100003	商务英语	Business English	3	1	September
3	2101021	会计学	Accounting	2	1	September
4	2101022	人力资源管理	Human Resource Management	2	1	September
5	2101019	管理经济学	Managerial Economics	2	1	September
6	2101023	战略管理	Strategic Management	2	1	September
7	2101040	员工关系管理	Employee Relations	2	1	September
8	2101029	跨文化管理	Intercultural Management	2	1	September
9	2101020	运作管理	Operation Management	2	1	September
10	2101039	组织行为学	Organizational Behavior	2	1	September
11	2101035	创业管理	Entrepreneurial Management	2	2	March
12	2101026	市场营销管理	Marketing Management	2	2	March
13	2101027	管理信息系统	Management Information System	2	2	March
14	2101024	管理统计学	Managerial Statistics	2	2	March
15	3701007	商业伦理与企业社会责任	Business Ethics and Corporate Social Responsibility	2	2	March
16	2101036	创新与变革管理	Innovation and Reformation Management	2	2	March

17	2101037	品牌管理	Brand Management	2	2	March
18	2101030	国际商法	International Business Law	2	2	March
19	2101028	国际商务管理	International Business Management	2	2	March