

Beijing Institute of Technology

English Taught Programs for Undergraduates (Term 1 September – January)

Unit Title	Credit Points
Computer Science and Programming	3
Engineering Graphics I	3
General Physics II	4
Machine Design	3
Thermodynamics and Heat Transfer	4
Modelling and Simulation of Systems	2.5
Research Methods and Academic Writing	1
Chinese Culture & Cross-Cultural Communications	1
Embedded Control System Design	1.5
Internal Combustion Engine Fundamentals	4
Energy System and Design	3
Fundamentals of Engineering Drawing	2
Computing Science and Programming	3
General Physics II	4
Data Structures and Algorithm Design	2.5
C++ Programming	1
Digital Logic Circuit and CPU	4
Control Theory I	4
Power Electronics	3
Research and Academic Writing	1
Computing Technology and Programming	3
Fundamentals of Engineering Drawing	2
Practice in Electronic Technology	1.5
College Physics II	4
Introduction to Engineering	1
Fundamentals of Electric Circuit Analysis	3.5
Experiments in Electric Circuit Analysis	1
Practice in Electronics (I-II)	2
Lab of Signals and Systems	1
Digital Electronics	3.5
Digital System Design and Experiment	2
Theory of Electromagnetic Fields and Microwave Engineering	4
Digital Signal Processing	3
Communication Circuit	3
Experiments in Communication Circuit	1
Research and Academic Writing	1
Project I	3
Project II	1
Project III	1
VLSI Design	4

Analysis and Design Basics of Analog Integrated Circuit	4
Combinatorics	3
Practice of Operating System Principles	3
Wireless Networks and Applications	3
Fundamentals of Software Engineering	4
Multimedia Technology	3
Computer Graphics	3
Pattern Recognition & Computer Vision	3
Introduction to Sociology	4
Introduction to Modern Science and Technology	2
Microeconomics	3
Applied Statistics	3
International Finance	3

