



# Undergraduate Study Programme For Robotics Engineering

Shenzhen Technology  
University

Credit

Semester

	0.5	0.5	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
1	Situation and Policy Education I (0.5)	Sports Club I (0.5)	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era (3)			Process of Adapting Marxism to Chinese Context and the Needs of Our Times and the Mission of Young Students (1)	College Physics B1 (3)			College Physics Experiments B1 (2)		Military Theory (2)		Military Training (2)		College English B1 (3)		German for Beginners I (5)				Advanced Mathematics A1 (6)						College Computer A (4)				Engineering Drawing and CAD (4)				Introduction Cognition (1)		
2	Situation and Policy Education II (0.5)	Sports Club II (0.5)	Chinese Modern and Contemporary History (3)		Ideology Morality and Rule under the Law (3)			College Physics B2 (3)			College Physics Experiments B2 (2)		College English B2 (3)		German for Beginners II (5)			Advanced Mathematics A2 (6)						The C Programming Language (4)		Eng. Ethics (1)	Fundamentals of Electrical and Electronic Technology (4)											
3	Situation and Policy Education III (0.5)	Sports Club III (0.5)	Basic Principles of Marxism (3)			Linear Algebra A (3)			Digital Electronics B (3)			Engineering Mechanics (4)			Fundamentals of Mechanical Design (5)			Complex Variable and Integral Transforms (2)		Advanced Programming Language (2)		Quality Infrastructure and its Application (2)		Scientific and Technological Information Retrieval and Papers (1)		Speciality English (2)		Metal Working Practice (3)		Electronics Process Design (2)		Basic Practice of Robot Eng. (2)						
4	Situation and Policy Education IV (0.5)	Sports Club IV (0.5)	Introduction to Maoism and Socialist Theoretical System with Chinese Characteristics (3)			Probability and Statistics A (3)			PLC Basic Principles and Applications (3)			Automatic Control Principle (4)			Introduction to Robotics (2)		Robot Sensing Technology (3)		Principles and Applications of the Single-chip Compute (3)		Object Oriented Programming (2)		Microcomputer Principle and Interface Technology (2)		3D Printing Technology and Application (2)		Embedded System Design (2)		Intermediater Practice of Robot Eng. (2)									
5	Robot Modeling and Simulation (2)			Robot Operating System (2)		Industrial Robot Technology and Application (2)		Digital Image Processing (2)		Robot Drive and Control (3)		Robots Manipulators (2)		Robots Navigation (2)		Machine Vision (2)		Pattern Recognition (2)		Advanced Practice of Robot Eng. (2)																		
6	Enterprise Internship (19)																																					
7	Ergonomics Standardization (2)			Introduction to Artificial Intelligence (2)		Fluid Dyanmics and Hydraulic Pneumatic Transmissions (2)		Machine Learning (2)		Comprehensive Practice of Intelligent Robots (3)																												
8	Final Year Project (15)																																					

Gray is General Courses

Brown is Professional Compulsory Courses

Blue is Professional Elective Courses

Green is Professional Practice Courses

Yellow is Final Year Project