

List of laboratories related to the profession and main equipment and the teaching tasks undertaken

Serial number	Name of the experimental site	Main Equipment Name	Quantity	Experimental courses undertaken
1	Computer Technology Laboratory	computer	441	“Fundamentals of Computer Science for College Students” Experiment
2	Computer Technology Laboratory	computer	441	“Computer Language (C Language)” Experiment
3	Basic Physics Laboratory	Paramagnetic resonance experimental system	2	《University Physics Experiment》
		Tesla meter	2	
		Analytical balance	2	
		Inertial Measurement Device	10	
		Universal computer millisecond timer	10	
		Monochromator	2	
		Light projector	2	
		Frank Hertz experiment apparatus	6	
		Light speed measuring instrument	4	
		Prism spectrometer	2	
		Pulse Nuclear Magnetic Resonance Instrument	2	

	Millikan oil drop apparatus	2	
	Zeeman effect	2	
	Sound and Light Effect Experiment Device	4	
	polarimeter	2	
	Oil drop experiment apparatus	4	
	circular polarimeter	8	
	Chaos Experiment Device	4	
	Scale telescope	10	
	Frank Hertz experiment apparatus	4	
	Physical balance	4	
	Planck constant measuring instrument	4	
	Ran Shaoer-Townsend EffectExperimental Apparatus	4	
	Pulse Nuclear Magnetic Resonance Experimental Instrument	4	
	High-performance specialcomputing card	4	
	Paramagnetic resonance experimental system	2	
4	Basic ChemistryCentral laboratory Laboratory bench	8	《General Chemistry》Experiment
	reagent rack	7	
	fume hood	4	
	Vacuum drying oven	1	
	EmergencyEyewash Station	2	

		Electric heating constant temperature blast drying oven	2	
		pH meter	3	
		Ultrasonic cleaning machine	3	
		Electronic analytical balance	10	
		Refrigerated water bath constant temperature oscillator	3	
		Circulating water multi-purpose vacuum pump	2	
		Constant temperature oscillator	5	
		PurpleExternal AnalysisInstrument	4	
5	Surface Chemistry Laboratory	Differential thermal analyzer	4	《Physical Chemistry》 Experiment
		Conductivity meter	4	
		Digital low vacuum pressure gauge	2	
		Precision Temperature Differential Measuring Instrument	5	
		Saturated steam pressure measurement device	4	
		Super constant temperature water bath	8	
		Circulating water multi-purpose vacuum pump	4	
		voltage meter	4	
		Polymer Molecular Weight Determination	4	

		Device (Viscosity Method)		
		One in ten thousand electronic analytical balance	4	
		Drying oven	7	
		Rotary evaporator	2	
		Central laboratory bench	18	
		Circulating water pump	3	
6	Organic Chemistry Laboratory	Three-in-one Purple External Analysis Instrument	1	《Organic Chemistry》 Experiment
		Emergency Eyewash Station	4	
		Laboratory fume hood	50	
		Abbe refractometer	4	
		Temperature control electric heating jacket (40 sets)	1	
	Total Station Room	Total station	42	《Engineering Surveying》 Experiment
7	Theodolite room	Casio calculator	15	
	Leveling instrument room	leveling instrument theodolite	26	Measurement internship
9	Internship factory	Electric welding machine	10	Metalworking internship
		Ceiling-mounted fan coil unit	5	
		Manual edge curling machine	10	
		Manual cutting machine	10	
		Horizontal fan coil unit	5	
		Water pump connector	5	

		Fire smoke exhaust valve	5	
		Fire damper	5	
		Circuit principle experiment box	8	
		Power function signal generator	4	
		Digital oscilloscope	8	
10	Electronic Electrical Engineering Laboratory	Electrical testing bench	1	《Electrical and Electronic Engineering》 experiment
		Building automation pressure amplifier wiring	2	
		Building Automation Sensor Operation and Parameter Testing Experiment	2	
		Ground testing instrument	1	
		Digital Storage Oscilloscope	98	
11	Electronic Electrical Engineering Training Room	Multi-channel arbitrary waveform generator1	98	Electronic Electrical Training A
		Transistor diagram instrument	4	
		computer	12	
		Electrical and Electronic Skills Workstation	17	
		Digital Storage Oscilloscope2	2	
		Multi-channel arbitrary waveform generator2	2	
12	Water Treatment	computer	49	AutoCAD Basics
13	Simulation Laboratory	Guan Lide 2020	100Node	Basic Computer Applications in

		Typical wastewater treatment plant 3D virtual reality simulation software	100Node	Water Supply and Drainage Engineering (including BIM technology)
		Urban Water Supply Treatment Simulation Software	100Node	
		Gas Chromatograph 3D Simulation Software	100Node	
		Liquid Chromatography 3D Simulation Software	100Node	
14	Fluid Mechanics Comprehensive Laboratory	Comprehensive experimental device for fluid mechanics	3	《Hydraulics》 Experiment
		Momentum law experimental device	3	
		Hydrostatic pressure experiment device	3	
		Self-circulating Bernoulli equation comprehensive experimental instrument	3	
		Self-circulating pitot tube speed measurement instrument	3	
		Digital Reynolds Experiment Instrument	3	
		Self-circulating Venturi comprehensive experimental instrument	3	
		Self-circulation local resistance comprehensive experimental instrument	3	
		Comprehensive experimental	3	

		instrument for self-circulation along the resistance		
		Eye wash station	2	
		Muffle furnace	1	
		Inverter Oscillator	1	
		All-round planetary ball mill	1	
		Ozone generator	2	
		refrigerator	1	
15	Water Analysis Chemistry Laboratory	Side table	16	《Water Analytical Chemistry》Experiment
		titration stand	16	
		BOD tester	2	
		Tray scale	4	
		Microwave closed digestion instrument	2	
		Multi-parameter water quality analyzer	2	
		(V8) Intelligent COD Rapid Determination Instrument	2	
16	Pumps and Pump Stations Laboratory	SingleStage Double SuctionCentrifugal Pump Model	1	《Pumps and Pump Stations》Experiment
		Single-stage single-suctionpump model	1	
		Multistage centrifugal pump model	1	
		Centrifugal pump performance curve measurement experimental platform	2	
		Centrifugal pump performance comprehensive testing device	3	

		Centrifugal Pump		
		Comprehensive	2	
		Performance Curve		
		Test Bench		
	Building Water	Comprehensive		《Building
	Supply and	Experiment of		Water Supply
	Drainage	Building Water Supply	1	and Drainage
	Engineering	and		Engineering》
	Laboratory	DrainageDemonstration		Experiment
		Platform		
		microscope	19	
		PortablepH meter	6	
		Pure water machine	2	
		Water bath shaker	4	
		Electric heating	1	
		blast drying box		
		Electronic balance	13	
17	Water	High-pressure steam	3	《Biology of
	Microbiology	sterilizer		Water
	Laboratory	Biochemical incubator	4	Treatment》
		Low-temperature	1	Experiment
		freezer		
		Large capacityfull		
		temperature	1	
		cultivationshaking		
		bed		
		Ultra-clean workbench	3	
18	Water Quality	Scattering light	6	Water Quality
	Engineering	turbidity meter		Engineering
	Laboratory	Digital Display Water		Experiment
		Bath Constant	3	
		TemperatureOscillator		
		High-speed desktop	1	
		centrifuge		
		StreamlinedFloating	2	
		Equipment		
		Dissolved Air	1	
		Flotation		



Experimental Device (6 sets)	
Asynchronous concrete mixing machine	3
Concrete mixing test apparatus	6
Filtration and backwashing experimental device	7
Water bath shaker	4
Electric heating blast drying box	1
Aeration and oxygenation experimental device	6
Portable pH meter	6
Ultraviolet-visible spectrophotometer	6
Digital Display Water Bath Constant Temperature Oscillator	3
Pure water machine	2
Dissolved oxygen meter	13
Vibrating screen machine	6
Damping Ratio Measurement Experimental Device (4 Sets)	1
Electronic balance	13
Electric mixer	8
Scattering light turbidity meter	6
A2/O City of Law Wastewater Treatment Simulation Device	1

Adsorption and  
visible light  
photocatalytic           1  
degradation reaction  
device

Combined treatment  
device for  
coagulation               1  
sedimentation and  
photocatalysis

Electrodialysis           1  
desalination device

Crushing sample           2  
machine