

Brief Introduction of School of Chemistry and Biology Engineering

School of Chemistry and Biology Engineering was founded in 1996. We have done our best to improve our teachers' qualification, laboratory construction, teaching quality, and create good atmosphere for improving the efficiency of administrative service under our university's guidance. Meanwhile, we pursue some science study corresponding to matter-resource condition and the needs of science-and-technology of Panzhihua City.

We now have 49 full-time and part-time teachers, including 4 professors and 7 associate professors. Three teachers possess doctoral degrees. Our school has five majors: Chemical Engineering and Techniques, Bioengineering, Environment Engineering, Chemical Engineering Techniques and Applications, Bioengineering Techniques.

Specialty of Chemical Engineering and Techniques

Cultivating aim: This specialty will cultivate students' competency in basic theory and basic knowledge of Chemical Engineering Techniques, enable the students to engage in chemical engineering manufacturing, researching, exploration, design and managing of technology, etc., and train them to be tomorrow's foremost talent in science and technology.

Main courses: Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry, Principles of Chemical Engineering, Chemical Reaction Engineering and Equipment, Chemical Engineering Separation and Equipment, Chemical Engineering Thermodynamics, Basic Chemical Engineering Mechanism, Chemical Engineering Short-range Control Meter, Chemical Engineering Techniques, etc.

Specialty of Bioengineering

Cultivating aim: This specialty will cultivate students' competency in basic theory, basic knowledge and basic skill of Bio-engineering, and modern science and

technology involved in this field, and enable the students to become senior talents in science and technology, engaging in the work of technology-management, quality-control of modern bio-production, bio-engineering technology and developing and exploring new bio-product, etc.

Main curriculum: Chemistry, Biology, Micro-biology, Biochemistry, Natural Product Chemistry, Principles of Chemical Engineering, Biochemistry Reaction Engineering, Biochemistry Separation Engineering, Fermentation Engineering, Enzyme Engineering, Gene Engineering, Biochemical Process Check and Control, etc.

We have founded 7 laboratories: Inorganic Chemistry Lab, Organic Chemistry Lab, Analytical Chemistry Lab, Physical Chemistry Lab, Principles of Chemical Engineering Lab, Specialty of Basic Chemistry Lab, and are in the process of developing a Biochemistry Lab, Micro-biochemistry Lab and Biology Lab. In May 1999 the Educational Administration of Sichuan Province praised our laboratories for meeting national standards and requirements.

Our department has spent 200,000 Yuan (RMB) on the purchase of 20 sets of imitative practical software of computer imitation practice in 1999. And in 2000 the computer imitative practical Lab was founded in our university as a means of production practice, and the problems in production were solved as well.

Up to now, we have engaged in the following science research tasks:

1. The application of CaO_2 in fish cultivating;
2. Equipment determination of expanding graphite synthesis;
3. Study of electro less plating Ni-Cu-P;
4. Synthesis study of hydroxylapatite in aqueous solution;
5. Foundation of chemical resource and item base of Panzhihua City;
6. Manufacture and application study of drying-speed-up of paint;
7. Study of high range water reducing agents;
8. Study of complex fertilizer;
9. Study of keeping-fresh agents of Mango;
10. Study of plastic altering property and anticorrosive.

Contact us:

The dean: Mr. Zou Min

Tel: 0086-812-337-1939

Attachments:

Brief Introduction of Special Laboratory of Chemical and Biological Department

Brief Introduction of Special Laboratory of Chemical and Biological Department (one)

Name of Lab	Balance Room	Building date	July, 1997
Room construction area	40m ²	Sum of assets	18,440.00 Yuan (RMB)
<p>Number of principal instruments and equipments: Analytical Balance(model TG328A,10); Photoelectricity Analytical Balance (model TG328B,2); Student Balance (model J0104,8).</p>			
<p>Opening item: 1、Quantifying exercise of Analytical Balance; 2、Adjusting exercise of capacity instruments; 3、Determination concentration of acid and alkali solution; 4、Confection and determination concentration of standard KMnO₄ solution; 5、Determination Fe²⁺ using 1,10 by Spectrophotometer method; 6、Determination heat of burning; 7、Rectify of filing material tower.</p>			

Brief Introduction of Special Laboratory of Chemical and Biological Department (two)

Name of Lab	Analytical Chemistry Lab	Building date	July, 1997
Room construction area	80m ²	Sum of assets	58675.20 Yuan
<p>Number of principal instruments and equipments: Spectrophotometer (model 721B,10); Acidity Meter (model PHS-2C,5); Electricity conduction ratio (model DDS-11A, 6); etc.</p>			
<p>Opening item:</p> <ol style="list-style-type: none"> 1、 Quantifying exercise of Analytical Balance; 2、 Adjusting exercise of capacity instruments; 3、 Confect and comparing concentration of acid and alkali solution; 4、 Determination concentration of acid and alkali solution; 5、 Determination quantity of NaOH and Na₂CO₃ in mixing alkali solution ; 6、 Confection and determination concentration of standard KMnO₄ solution; 7、 Determination quantity of H₂O₂ by KMnO₄ method; 8、 Determination Fe²⁺ using 1,10 by Spectrophotometer method; 9、 Determination quantity of strong HCl and HAc in aqueous solution; 			

Brief Introduction of Special Laboratory of Chemical and Biological Department (three)

Name of Lab	Chemical Engineering Principle Lab	Building date	Sep., 1998
Room construction area	120m ²	Sum of assets	161548.60yuan
<p>Number of principal instruments and equipments: Off-heart Pump experimental Instrument(5), Boruli Experimental Instrument(5); Reno Experimental Instrument(5); Pipeline Liquid Resistance Experimental Instrument(2); Continuous Filling-material Tower Experimental Instrument(2); Intermission Filling-material Tower Experimental Instrument(1); Heat-transfer Experimental Instrument(4); Gas-absorbing Experimental Instrument(3); Equipments models, etc.</p>			
<p>Opening item: 1、Off-heart Pump experiment; 2、Boruli Experiment; 3、Reno Experiment; 4、Pipeline Liquid Resistance Experiment; 5、Continuous Filling-material Tower Experiment; 6、Intermission Filling-material Tower Experiment; 7、Gas-absorbing Experiment; 8、Heat-transfer Experiment(naked pipeline and desperate-heat pipeline); 9、Heat-transfer Experiment(cannula pipe);</p>			

Brief Introduction of Special Laboratory of Chemical and Biological Department (four)

Name of Lab	Physical and Chemical Lab	Building date	Nov., 1998
Room construction area	80m ²	Sum of assets	89,253.20 Yuan
<p>Number of principal instruments and equipments: Disc Revolving Light Instruments(5); Able Refraction Instruments(2); Beckman thermometer (10); Constant temperature calorimeter (4); Super Numerical Constant temperature (4); Petrol product moving viscosity meter (4); etc.</p>			
<p>Opening item:</p> <ol style="list-style-type: none"> 1、 Using of Constant temperature and determination viscosity of liquid; 2、 Determination heat of burning; 3、 Determination vapor pressure of pure liquid; 4、 Protract gas-liquid photo-chart of duality liquid system; 5、 Determination reaction equilibrium constant of disposing NH₄(NH₂)COO; 6、 Determination and application of electrical conduction; 7、 Determination and application of electrical potential; 8、 Determination of anti-polarization potential of decomposing electricity; 9、 Determination of saponification velocity constant of C₃H₈CO₂(Methyl acid methyl ester); 			