

Qualifying Examination Rules of Ph.D Program, Department of Chemical Engineering and Biotechnology, National Taipei University of Technology

Approved on 2020/1/14 by the Faculty Meeting, Department of Chemical Engineering and Biotechnology

Subject	Category I	<ul style="list-style-type: none"> • Advanced Fluid Mechanics • Advanced Heat transfer • Advanced Mass Transfer • Advanced Chemical Engineering Thermodynamics • Advanced Chemical Reaction Engineering • Advanced Organic Chemistry • Advance Physical Chemistry • Advanced Molecular Biochemistry • Biomedical Engineering • Biotechnology and Biochemical Engineering
	Category II	<ul style="list-style-type: none"> • Process Simulation • Electrochemistry and Electrochemical Engineering • Semiconductor Manufacturing Technology • Semiconductor Process Integration • Colloid and Interface Science • Manufacture Process of Specialty Chemicals • Adsorption and Ion Exchange • Special Topics on Characteristics of Polymers • Polymer Materials and Composites • Polymer Synthesis • Industrial Catalyst and Application • Special Topics on Transport Phenomena of Membrane • Drugs Release and Control • Optoelectronic Devices Manufacturing Technology • Biomolecular simulations • Genetic Engineering • Biomaterials • Tissues Engineering • Advances In Microbiology • Human molecular genetics • Advance Bio-organic Chemistry
Policies for Ph.D. qualifying examination	<p>The Ph.D. Program of Chemical Engineering and Biotechnology requires students to pass two subject exams (Total score is 100 points, and the passing score is 70 points). Students are limited to re-take the failed subject(s) twice. Should a student fail a particular subject, he/she is allowed to change exam subject twice. And students are limited to re-take the failed new subject(s) only once.</p> <p>The following options are available:</p> <ol style="list-style-type: none"> 1. Pass two written subject exams: (1)one subject from category I and the other from category II, or (2)both of two subjects from category I. 2. Pass one written subject exam and pass one subject course in the Category I with grade higher than 50 percentile. 3. Pass one written subject exam from category I and publish one SCI journal paper as the substitution for Category II subject. Student has to be the first author except the advisor. This SCI journal paper must not be included in the required SCI journal papers for graduation. 	

Remarks	<ol style="list-style-type: none">1. Students of Master program are eligible to apply for the exam, and the records will remain valid for five years.2. Doctoral students must pass the exam within three enrollment years.3. The failed subjects can be re-applied, but not more than two times.4. Application for the examination must be submitted to the department office within regulated period each semester5. These rules are provided in accordance with the University Act and its enforcement rules as well as with the Degree Conferral Law and its enforcement rules.
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