I-Shou University

# PhD in Industrial Management Curriculum Flow Chart (2014-15)

PLEASE SEE THE DEPARTMENT OFFICE (ADMINISTRATION BLDG., RM. 1612-1) IF YOU NEED ASSISTANCE OR CALL (+886-7-6577711 EXT. 5502)

## Education Goals

Possess academic expertise
Solve problems
Possess global industrial development analytical skills
Do research and development innovatively
Create knowledge
Possess professional IT and software application skills

Required Courses: 11 credits

Elective Courses: 24 credits

Oral Defense: 0 credits

**Remarks**

◎In addition to fulfilling the minimum credit requirements within the course of study, students are also required to satisfy with the "Guidelines on Pursuit of Doctoral Degree" before they graduate.
◎Elective Courses: Operations Management/ Decision Management/ Human-centered Management

| Freshman Semester 1 | Freshman Semester 2 | Sophomore Semester 3 | Sophomore Semester 4 |
|---|---|---|---|
| Seminar I (1) | Seminar II (1) | Seminar III (1) | Seminar IV (1) |
| Thesis I (1) | Thesis II (1) | Thesis III (1) | Thesis IV (1) |
| Advanced Statistics (3) | | | Thesis – Oral Defense (0) |
| Operations Management (3) | Advanced Quality Control (3) | Seminar in Human and Systems I (2) | |
| International Quality and Environmental Management (3) | Fuzzy Set Theory Applications and Practice (3) | Seminar in Human and Systems II (2) | |
| Metrology and Quality (3) | Knowledge Management (3) | | |
| Mathematical Programming (3) | Customer Relationship Management (3) | | |
| Research Methodology (3) | Innovation and Research Management (3) | | |
| System Simulation (3) | Total Quality Management (3) | | |
| Decision Support System (3) | Computer Integrated Manufacturing (3) | | |
| Advanced Human Resource Management (3) | Integer Programming (3) | | |
| Organizational Theory and Management (3) | Semi-Conductor Manufacturing Management (3) | | |
| Technology Management (3) | Leadership (3) | | |
| Advanced Statistics (3) | Heuristic Algorithms(3) | | |
| Scheduling and Inventory Management (3) | The Operational Models of Electronic Enterprise (3) | | |
| Logistics Management (3) | Advanced Statistics (3) | | |
| System Analysis and Design (3) | Neural Network (3) | | |
| Management Information System (3) | Six Sigma (3) | | |
| Strategic Management (3) | Project Management (3) | | |
| Experimental Design (3) | Logistics and Physical Distribution Management(3) | | |
| Reliability Engineering (3) | Enterprise Resource Planning(3) | | |
| Production Economics Analysis (3) | Process Management (3) | | |
| Data Envelopment Analysis (DEA) (3) | Decision Analysis (3) | | |
| Fuzzy Set Theory (3) | Design and Analysis of Supply Chains (3) | | |
| Electronic Commerce (3) | Advanced Operations Research (3) | | |
| | Quality Management in Service Industry (3) | | |
| | Gray Theory (3) | | |
| | Machine Vision (3) | | |
| | Multivariate Analysis (3) | | |

**Total Required Credits : 35**