

Curriculum

Graduate_CourseDescription-Industrial Engineering

Course Code	Course Title	Credit
IDG003	Multivariate Analysis and Quality Management	3
IDG004	Advanced Operations Management	3
IDG005	Scheduling Theory	3
IDG006	Advanced Topic in Engineering Economy	3
IDG007	Advanced Reliability Engineering	3
IDG008	Time Series Analysis	3
IDG009	System Analysis	3
IDG010	Research Methodologies in Human Factors Engineering	3
IDG011	Design and Evaluation of Products	3
IDG013	Industrial Economic Analysis	3
IDG014	Advanced Robust Design	3
IDG015	Six Sigma and Quality Management	3
IDG016	Economics of Personnel Management	3
IDG017	Advanced of Design of Experiments	3
IDG018	Simulation Methods and Applications	3
IDG019	Intelligent Systems Design	3
IDG020	Cognitive Systems Engineering	3

IDG021	Optimized Modeling and Analysis	3
IDG022	Engineering Valuation	3
IDG023	Stochastic Processes and Queueing Theory	3
IDG025	Data Analysis	3
IDG026	Geometric Dimensioning and Tolerancing	3
IDG030	Supply Chain Management / Advanced Planning & Scheduling	3
IDG032	Project Management	3
IDG033	Product Design and Engineering I	3
IDG034	Materials and Production	3
IDG036	Advanced Theory of Inventive Problem Solving	3
IDG037	Principles of Economics	3
IDG038	Business Process Reengineering in Engineering Design Process	3
IDG039	Manufacturing Execution Systems	3
IDG040	Advanced Topics in Human Factors and Ergonomics	3
IDG041	Artificial Intelligence	3
IDG042	Data Mining	3
IDG043	System Engineering	3
IDG045	Advanced Capstone Design I	3
IDG046	Advanced Capstone Design II	3
IDG047	Design Engineering Economics	3
IDG048	Product design and engineering II	3
IDG049	Nonlinear Control and Optimization	3
IDG050	Contemporary Design Engineering Issue I	3
IDG051	Contemporary Engineering Design Issue II	3

IDG052	Human Interaction Design	3
IDG053	Entrepreneurship and ethics	3
IDG054	Founding system and legislation	3
IDG055	Application Programming	3
IDG056	Computational Structural Design	3
IDG057	Advanced Topics in Quality Management	3
IDG058	Advanced Topics in Quality Management	3
IDG059	Cost Accounting and Economic Analysis	3
IDG060	Usability Engineering	3
IDG061	System Safety Engineering	3
IDG062	Embedded System Optimization	3
IDG063	Special Issue on Stochastic Optimization	3
IDG801	Internship 1	1
IDG802	Internship 2	1
IDG803	Internship 3	1
IDG804	Internship 4	2
IDG805	Internship 5	3
IDG901	Master thesis study	2
IDG902	Ph.D. thesis study (1)	2
IDG903	Ph.D. thesis study (2)	2