Curriculum

Department of Industrial Engineering

[Grade 1,2] Freshman, Sophomore

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.-Designing Hr. for accreditation for engineering education.-Prac.Training
1,2,3,4	1,2	IG0002	Advisor Counsel	0-0-0-0
1	1	IG0027	Introduction to Industrial Design	2-2-0-0
1	2	IG0003	Work System and Process Management	2-2-0-0
2	1	IG0005	Manufacturing System Engineering	3-3-0-0
		IG0009	Industrial Statistics	2-2-0-0
		IG0010	CAD and Practice	3-3-0-0
		IG0006	Elementary Engineering Design	3-3-0-0
		IG0016	Industrial Economics	3-3-0-0
		IG0033	Basic Information Design	3-3-0-0
	2	IG0017	Theory of Inventive Problem Solving	3-1-2-0
		IG0028	Human Factors and Ergonomics	3-2-1-0
		IG0034	Operations Research	3-3-0-0
		IG0013	Data Analysis	3-3-0-0
		IG0015	Mechanical Drawing and Tolerance Analysis	3-3-0-0
		IG0029	IE Computing Application	3-3-0-0

Department of Industrial & Management Engineering

[Grade 3,4] Junior, Senior

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.-Designing Hr. for accreditation for engineering education.-Prac.Training
1,2,3,4	1,2	IG0002	Advisor Counsel	0-0-0-0
3	1	IG3002	Statistical Quality Control	3-3-0-0
		IG3005	Manufacturing Logistics System Management	3-1-2-0
		IG3037	Production/Operations Management	3-3-0-0
		IG3009	Decision-Making Analysis	3-1-2-0
		IG3038	Computer Aided Engineering	3-2-1-0
		IG3039	Artificial Intelligence	3-3-0-0
	2	IG3007	Reliability Engineering	3-3-0-0
		IG3008	System Simulation and Applications	3-3-0-0
		IG3010	Decision-Making Analysis	3-1-2-0
		IG3003	Introduction to Technology Management	3-3-0-0
		IG3006	Production Planning and Control	3-1-2-0
		IG3021	Business Process Management	3-3-0-0
		IG3040	Introduction to Design	3-3-0-0
4	1	IG3017	Capstone Design I	2-0-2-0
		IG3015	Quality Management	3-3-0-0
		IG3041	Manufacturing Execution Systems	3-3-0-0
		IG3042	Data Mining	3-3-0-0

		IG3036	Capstone Design Ⅱ	2-0-2-0
	2	IG3018	Strategic Management of Technology	3-3-0-0
		IG3012	Cost Engineering	3-3-0-0
		IG3016	Human Resource Management	3-3-0-0

Department of Engineering Design

[Grade 3,4] Junior, Senior

Year	Semester	Course Code	Course Title	Credit-Lecture Hr.-Designing Hr. for accreditation for engineering education.-Prac.Training
3	1	IG2023	Design planning and strategy	3-3-0-0
		IG2003	Human Computer Interaction	3-3-0-0
		IG2041	Production/Operations Management	3-3-0-0
		IG2024	Prototyping	3-2-0-2
		IG2025	Product and Mechanical Modeling	3-2-1-0
		IG2011	Research Methods	3-3-0-0
		IG2042	System Programming	3-2-1-0
	2	IG2026	Product design	3-3-0-0
		IG2009	Design Engineering Psychology	3-3-0-0
		IG2034	UX/Service Design	3-2-1-0
		IG2043	Quality Control	3-3-0-0
		IG2012	Sustainable Design	3-1-2-0
		IG2015	CAE	3-2-1-0
		IG2044	Intelligent System	3-3-0-0
4	1	IG2014	Capstone Design I	2-0-2-0
		IG2028	CMF design	3-3-0-0
		IG2040	Occupational Safety Management and Engineering	3-3-0-0
		IG2045	Data Mining	3-3-0-0
	2	IG2020	Capstone Design II	2-0-2-0
		IG2019	Design Portfolio	3-1-2-0
		IG2022	Universal Design	3-3-0-0
		IG2032	System Engineering	3-2-0-2