

**Bachelor of Science in Industrial Engineering (4 Years, 244 ECTS, Bachelor)**

**TABLE 2: COURSE DISTRIBUTION PER SEMESTER**

A/A	Course Type	Course Name	Course Code	Periods Per Week	Period Duration	Number of weeks/ Academic semester	Toral Periods / Academic Semester	Number of ECTS
<b>1st SEMESTER (Fall)</b>								
<b>1</b>	Engineering Fundamentals	Introduction to Programming	EECE 230/ CMPS201	3	50 min	13	39	6
<b>2</b>	Basic Science Courses	Elective Course		3	50 min	13	39	6
<b>3</b>	Basic Science	Calculus and Analytic Geometry III	MATH 201	3	50 min	13	39	6
<b>4</b>	Engineering Fundamentals	Statics/Dynamics	CIVE 210	3	50 min	13	39	6
<b>5</b>	General Education	Academic English	ENGL 203	3	50 min	13	39	6
<b>2nd SEMESTER (Spring)</b>								
<b>1</b>	Basic Science Courses	Differential Equations	MATH 202	3	50 min	14	42	6
<b>2</b>	Basic Science Courses	Linear Algebra	MATH 218/219	3	50 min	14	42	6
<b>3</b>	Basic Science Courses	Elective		3	50 min	14	42	6
<b>4</b>	Industrial Engineering Core	Economy	ECON211	3	50 min	14	42	6
<b>5</b>	GE	Elective		3	50 min	14	42	6

Beyond This point....Tentative

**3rd SEMESTER (Fall)**

<b>1</b>	Industrial Engineering Core	Engineering Economy	INDE 301	2	75 min	13	26	6
<b>2</b>	Industrial Engineering Core	Operations Research I	INDE 302	3	50 min	13	39	6
<b>3</b>	Basic Science Courses	Introduction to Probability and Random Variables	STAT 230	3	50 min	13	39	6
<b>4</b>	General Education Requirements	Technical English	ENGL 206	3	50 min	13	39	6
<b>5</b>	GE-Science	e.g.Human Biology	BIOL 210	3	50 min	13	39	6

**4th SEMESTER (SPRING)**

<b>1</b>	Industrial Engineering Core	Operations Research II	INDE 303	2	75 min	14	28	6
<b>2</b>	Industrial Engineering Core	Work Measurement and Methods Engineering	INDE 320	3	50 min	14	42	6
<b>3</b>	Basic Science Courses	Numerical Computing	MATH 251	3	50 min	14	42	6
<b>4</b>	General Education Requirements	Fundamentals of Management & Organizational Behavior	MNGT 215	2	75 min	14	42	6
<b>5</b>	General Education Requirements	Arabic/Gr Elective I		3	50	14	42	6

**5th SEMESTER (Fall)**

<b>1</b>	Industrial Engineering Core	Engineering Entrepreneurship	INDE 412	2	75 min	13	26	4
<b>2</b>	Industrial Engineering Core	Human Factors Engineering	INDE 421	2	75 min	13	26	6
<b>3</b>	Industrial Engineering Core	Discrete Event Simulation	INDE 504	2	75 min	13	26	6
<b>4</b>	Industrial Engineering Core	Information Systems	INDE 513	2	75 min	13	26	6
<b>5</b>	General Education Requirements	Humanities Elective I		3	50 min	13	39	6
<b>6</b>	General Education Requirements	Arabic/Gr Elective II		3	50 min	13	39	6

**6th SEMESTER (SPRING)**

<b>1</b>	Industrial Engineering Core	Facilities Planning and Material Handling	INDE 402	2	75 min	14	28	6
<b>2</b>	Industrial Engineering Core	Statistical Quality Control	INDE 430	2	75 min	14	28	6
<b>3</b>	Industrial Engineering Core	Production Planning and Inventory Control	INDE 431	2	75 min	14	28	6
<b>4</b>	Basic Business Courses	Financial Accounting	ACCT 210	2	75 min	14	28	6
<b>5</b>	General Education Requirements	Humanities Elective II		3	50 min	14	42	6

**7th SEMESTER (Summer)**

<b>1</b>	Industrial Engineering Core	Approved Experience	INDE 500			6		0
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**8th SEMESTER (Fall)**

<b>1</b>	Industrial Eng. Core	Final Year Project I	INDE 501	1	60 min	13	13	6
<b>2</b>	General Education Requirements	e.g. Engineering Ethics	INDE 410	3	50 min	13	39	6
<b>3</b>	General Education Requirements	Introduction to Project Management	INDE 411	2	75 min	13	26	6
<b>4</b>	General Education Requirements	Science Elective II		3	50 min	13	39	6
<b>5</b>	General Education Requirements	Humanities Elective III		3	50 min	13	39	6

**9th SEMESTER (SPRING)**

<b>1</b>	Industrial Eng. Core	Final Year Project II	INDE 502	1	60 min	14	14	6
<b>2</b>	Industrial Eng. Core	Data Analytics for Industrial Engineering	INDE 535	2	75 min	14	28	6
<b>3</b>	Engineering Fundamentals	Manufacturing Processes I	MECH 421	3	50 min	14	42	6
<b>4</b>	General Education Requirements	Understanding our Engagement <sup>10</sup>		3	50 min	14	42	6
<b>5</b>	General Education Requirements	Humanities Elective IV		3	50 min	14	42	6