Study Plan

1. For student who do not participate in cooperative education

Year 1 Semester 1		Credits (Lecture – Lab – Self Study)
01204111	Computers and Programming	3(2-3-6)
01417167	Engineering Mathematics I	3(3-0-6)
01420111	General Physics I	3(3-0-6)
01420113	Laboratory in Physics I	1(0-3-2)
01999111	Knowledge of the Land	2(2-0-4)
	English	3()
	General education	
	(Language and Communication)	<u>3()</u>
	Total	<u> 18()</u>
Year 1 Semest	er 2	Credits (Lecture – Lab – Self Study)
01208112	Mechanical Engineering Drawing	3(2-3-6)
01211151	Statics and Strength of Materials	3(3-0-6)
01403114	Laboratory in Fundamental of General	Chemistry 1(0-3-2)
01403117	Fundamental of General Chemistry	3(3-0-6)
01417168		
	Engineering Mathematics II	3(3-0-6)
01175xxx	Engineering Mathematics II Physical Education Activities	3(3-0-6) 1(0-2-1)
01175xxx		

Year 2	Year 2 Semester 1		Credits (Lecture – Lab – Self Study)	
0120	5201	Introduction to Electrical Engineering		3(3-0-6)
01208	3271	Mathematical Applications in Mechanical Engineering		3(2-3-6)
0121	1211	Design Engineering and Design Technol	ogy	3(2-3-6)
01212	1222	Mechatronics Engineering		3(2-3-6)
01213	3201	Materials and Manufacturing Processes	5	3(3-0-6)
		English		<u>3()</u>
		Total		<u> 18()</u>
Year 2 Semester 2			Credits (Lectur	e – Lab – Self Study)
01205	5202	Electrical Engineering Laboratory I		1(0-3-2)
01208	3281	Workshop Practice		1(0-3-2)
01212	1221	Hydraulics and Pneumatics Systems		3(2-3-6)
01211232		Production Systems Management		3(3-0-6)
01212	1261	Fundamentals of Thermodynamics and Fluid Mechanics 3(3-0-6)		
01211271		Industrial Artificial Intelligence and IoT		3(2-3-6)
		General education (wellness)		<u>3()</u>
		Total		<u> 17()</u>
Year 3 Semester 1 Credits (Lecture – Lab – Sel			e – Lab – Self Study)	
01205301	Digital	Circuits and Microcontrollers		3(3-0-6)
01211323	Indust	Industrial Automation Control System		3(2-3-6)
01211325	Vibration Analysis and Condition Based Mainten		nance	3(2-3-6)
01211334	Roboti	Robotics Engineering and Information System		3(2-3-6)
01211371	Industrial Dynamics System and Control			3(2-3-6)
01211373	Machi	e Learning and Programming for Industry		3(2-3-6)
	English	1		<u>3()</u>
	Total			<u>21()</u>

Year 3 Semester 2		Credits (Lecture – Lab – Self Study)			
01205302	Digital Circuits and Microcontrollers Laboratory	1(0-3-2)			
01208381	Mechanical Engineering Laboratory I	1(0-3-2)			
01211313	Automatic Machine Design	3(3-0-6)			
01211315	Manufacturing Facility Design	3(3-0-6)			
01211324	Robotics Integration and Automation System	3(2-3-6)			
01234397	Seminar	1			
	Engineer Elective	<u>6()</u>			
	Total	<u> 18()</u>			
Year 4 Semest	er 1	Credits (Lecture – Lab – Self Study)			
01234495	Digital Manufacturing and Robotics Integration				
	Engineering Projects Preparation	1(0-3-2)			
	General education(wellness)	3()			
	Engineer Elective	3()			
	Free Elective	<u>3()</u>			
	Total	<u>10()</u>			
Year 4 Semest	er 2	Credits (Lecture – Lab – Self Study)			
01234499	Digital Manufacturing and Robotics Integration Engineering Project	2(0-6-3)			
	General education (Information/computer)	3()			
	General education (Aesthetics)	3()			
	Free Elective	<u>3()</u>			
	Total	<u>11()</u>			

2. For student who participate in co-operative education

Year 1 Semester 1		Credits (Lecture – Lab – Self Study)	
01204111	Computers and Programming	3(2-3-6)	
01417167	Engineering Mathematics I	3(3-0-6)	
01420111	General Physics I	3(3-0-6)	
01420113	Laboratory in Physics I	1(0-3-2)	
01999111	Knowledge of the Land	2(2-0-4)	
	English	3()	
	General education		
	(Language and Communication)	<u>3()</u>	
	Total	<u> 18()</u>	
Year 1 Semeste	er 2	Credits (Lecture – Lab – Self Study)	
01208112	Mechanical Engineering Drawing	3(2-3-6)	
01211151	Statics and Strength of Materials	3(3-0-6)	
01403114	Laboratory in Fundamental of General (Chemistry 1(0-3-2)	
01403117	Fundamental of General Chemistry	3(3-0-6)	
01417168	Engineering Mathematics II	3(3-0-6)	
01175xxx	Physical Education Activities	1(0-2-1)	
	General education (Entrepreneurship)	<u>3()</u>	
	Total	<u> 17()</u>	

Year	Year 2 Semester 1		Credits (Lectur	e – Lab – Self Study)
0120	05201	Introduction to Electrical Engineering		3(3-0-6)
0120	08271	Mathematical Applications in Mechanical Engineering		3(2-3-6)
0123	11211	Design Engineering and Design Technol	ogy	3(2-3-6)
0123	11222	Mechatronics Engineering		3(2-3-6)
0123	13201	Materials and Manufacturing Processes	5	3(3-0-6)
		English		3()
		Total		<u> 18()</u>
Year	² 2 Semeste	er 2	Credits (Lectur	e – Lab – Self Study)
0120	05202	Electrical Engineering Laboratory I		1(0-3-2)
0120	08281	Workshop Practice		1(0-3-2)
0123	11221	Hydraulics and Pneumatics Systems		3(2-3-6)
0123	11232	Production Systems Management		3(3-0-6)
0123	11261	Fundamentals of Thermodynamics and Fluid Mechanics 3(3-0-6)		
01211271		Industrial Artificial Intelligence and IoT		3(2-3-6)
		General education (wellness)		<u>3()</u>
		tal		<u> 17()</u>
Year 3 Semester 1 Cre		Credits (Lectur	e – Lab – Self Study)	
01205301	Digital	Circuits and Microcontrollers		3(3-0-6)
01211323	Indust	Industrial Automation Control System		3(2-3-6)
01211325	Vibrati	Vibration Analysis and Condition Based Mainten		3(2-3-6)
01211334	Roboti	Robotics Engineering and Information System		3(2-3-6)
01211371	71 Industrial Dynamics System and Control			3(2-3-6)
01211373	Machi	e Learning and Programming for Industry		3(2-3-6)
	English	1		<u>3()</u>
	Total			<u>21()</u>

Year 3 Semester 2		Credits (Lecture – Lab – Self Study)	
01205302	Digital Circuits and Microcontrollers Laboratory	1(0-3-2)	
01208381	Mechanical Engineering Laboratory I	1(0-3-2)	
01211313	Automatic Machine Design	3(3-0-6)	
01211315	Manufacturing Facility Design	3(3-0-6)	
01211324	Robotics Integration and Automation System	3(2-3-6)	
01234397	Seminar	1	
01234495	Digital Manufacturing and Robotics Integration	1(0-3-2)	
	Engineering Projects Preparation		
	General education (Aesthetics)	3()	
	Free Elective	<u>3()</u>	
	Total	<u> 19()</u>	
Year 4 Semest	er 1	Credits (Lecture – Lab – Self Study)	
01234499	Digital Manufacturing and Robotics Integration Engineering Project	2(0-6-3)	
	General education (Information/computer)	3()	
	General education (wellness)	3()	
	Free Elective	<u>3()</u>	
	Total	<u>11()</u>	
Year 4 Semester 2		Credits (Lecture – Lab – Self Study)	
01234490	Co-operative Education	<u>9</u>	
	Total	<u>9</u>	