## Example of Study Plan

for the students <u>not</u> applied in Co-operative Education

Bachelor of Engineering Program in Digital Manufacturing System Engineering

Year 1 Ser	nester 1	Credits (Lecture-Lab-Self Study)
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)
03603103	Basic Digital Circuit Design	3(3-0-6)
03609161	Digital Manufacturing System Engineering Explo	pration 1(0-3-2)
01355xxx	English	3( )
	General Education: Entrepreneurship	<u>3( )</u>
	Total	<u> 19( )</u>

Year 1 Semester 2		Credits (Lecture-Lab-Self Study)
01417168	Engineering Mathematics II	3(3-0-6)
03601101	Introduction to Industrial Electronics Engineering	ng 3(3-0-6)
03601102	Introduction to Industrial Electrical Engineering	3(3-0-6)
03603101	Introduction to Computer Programming	3(2-3-6)
03609111	Basic Digital Modelling and Applications	3(2-3-6)
	Information/Computer	1( )
	General Education: Wellness	<u>2( )</u>
	Total	<u> 18( )</u>

Year 2 Ser	nester 1	Credits (Lecture-Lab	-Self Study)
03601206	Introduction to Industrial Electronics Engineering Labo	ratory	1(0-3-2)
03601207	Introduction to Industrial Electrical Engineering Labora	tory	1(0-3-2)
03602201	Introduction to Materials and Manufacturing Pro	ocesses	3(3-0-6)
03602221	Applied Probability and Statistics for Engineers		3(3-0-6)
03609231	Industrial Data Communication and Internet of	Things	3(3-0-6)
03609271	Fundamentals of Computation for Digital Manufacturing System Engi	neering	3(3-0-6)
01175xxx	Physical Education Activity		1(0-2-1)
01355xxx	English		<u>3( )</u>
	Total		<u> 18( )</u>

Year 2 Semester 2		Credits (Lecture-Lab-Self Study)	
03601208	Automation System in Manufacturing	3(3-0-6)	
03603102	Basic Computer Architecture and Embedded S	ystem 3(3-0-6)	
03609221	Production and Project Management	3(3-0-6)	
03609223	Digital Work Analysis and Design	3(3-0-6)	
03609299	Digital Manufacturing System Engineering Proje	ct I 1(0-3-2)	
	General Education: Aesthetics	3( )	
	Free Elective	<u> 3( )</u>	
	Total	<u> 19()</u>	

Year 3 Semester 1		Credits (Lecture-Lab-Self Study)	
03601304	Automation System in Manufacturing Laborato	ry	1(0-3-2)
03607331	Machine Vision and Applications in Automation	ו System	3(3-0-6)
03609324	Preventive and Predictive Maintenance		3(3-0-6)
03609332	Cyber Physical System and Cyber Security		3(3-0-6)
03609341	Digital Technology Applied in Manufacturing		3(2-2-5)
03609351	Database Design and Data Mining		3(3-0-6)
01355xxx	English		<u>3( )</u>
	Total		<u> 19( )</u>

Year 3 Ser	nester 2	Credits (Lecture-Lab-Self Study)
03607332	Artificial Intelligence for Robot and Machinery	3(3-0-6)
03609322	Virtual Factory	3(2-2-5)
03609344	Production Control System	3(3-0-6)
03609352	Industrial Data Analysis and Visualization	3(3-0-6)
03609353	Industrial Measurement and Quality Managem	ent 3(2-3-6)
03609399	Digital Manufacturing System Engineering Proje	ect II 2(0-6-3)
	General Education: Thai Citizen and Global Cit	izen <u>3( )</u>
	Total	<u>20( )</u>

Year 4 Semester 1		Credits (Lecture-Lab-Self Study)
03602401	Financial and Economic Analysis	3(3-0-6)
03609426	Industrial System Analysis and Design	3(3-0-6)
	Area of Concentration: Approved Electives	6( )
	General Education: Entrepreneurship	3( )
	Thai Language	<u>3( )</u>
	Total	<u> 18( )</u>

Year 4 Semester 2	Credits (Lecture-Lab-Self Study)
Area of Concentration: Approved Electives	6( )
Free Elective	<u>3( )</u>
Total	<u>9( )</u>