MODULE HANDBOOK

<table>
<tr><td colspan="2">Module name</td><td colspan="5">Production Planning & Control</td></tr>
<tr><td colspan="2">Module level, if applicable</td><td colspan="5">3rd (year)</td></tr>
<tr><td colspan="2">Code, if applicable</td><td colspan="5">SST-513</td></tr>
<tr><td colspan="2">Semester(s) in which the module is taught</td><td colspan="5">5th (fifth)</td></tr>
<tr><td colspan="2">Person responsible for the module</td><td colspan="5">Dina Tri Utari, S.Si., M.Sc.</td></tr>
<tr><td colspan="2">Lecturer</td><td colspan="5">Ayundyah Kesumawati, S.Si., M.Si.</td></tr>
<tr><td colspan="2">Language</td><td colspan="5">Bahasa Indonesia</td></tr>
<tr><td colspan="2">Relation to curriculum</td><td colspan="5">Compulsory course in the third year (5th semester) Bachelor Degree</td></tr>
<tr><td>Types of teaching and learning</td><td>Class size</td><td>Attendance time (hours per week per semester)</td><td>Form of active participation</td><td colspan="2">Workload (hours per semester)</td><td></td></tr>
<tr><td rowspan="4">Lecture</td><td rowspan="4">50-60</td><td rowspan="4">2.5</td><td rowspan="4">Problem solving</td><td>Face to face teaching</td><td>35</td></tr>
<tr><td>Structured activities</td><td>48</td></tr>
<tr><td>Independent study</td><td>48</td></tr>
<tr><td>Exam</td><td>5</td></tr>
<tr><td colspan="2">Total Workload</td><td colspan="5">136 hours</td></tr>
<tr><td colspan="2">Credit points</td><td colspan="5">3 CUs / 5.1 ECTS</td></tr>
<tr><td colspan="2">Requirements according to the examination regulations</td><td colspan="5">Minimum attendance at lectures is 75%. Final score is evaluated based on assignment, mid-term exam, and final exam</td></tr>
<tr><td colspan="2">Recommended prerequisites</td><td colspan="5">Students have taken Statistical Method II (SST - 204)</td></tr>
<tr><td colspan="2">Related course</td><td colspan="5">Statistical Method II (SST - 204)</td></tr>
<tr><td colspan="2">Module objectives/intended learning outcomes</td><td colspan="5">After completing this course, the students have ability to:
CO 1. show independent, quality, and measurable performance in explaining the manufacturing system and the space for planning and controlling production in the manufacturing industry in Indonesia.
CO 2. show independent, quality, and measurable performance in choosing forecasting methods that are in accordance with existing sales / demand data in a manufacturing industry for the production planning process and are able to calculate future demand forecasts
CO 3. show independent, quality, and measurable performance in calculating the inventory of raw materials, semi-finished materials, and products when the supplies are deterministic and probabilistic
CO 4. show independent, quality, and measurable performance in producing aggregate and disaggregation planning based on a manufacturing industry problem
CO 5. show independent, quality, and measurable performance in producing material planning requirement planning</td></tr>
<tr><td colspan="2">Content</td><td colspan="5">1. understand well the manufacturing system and the production system
2. understand the terminology of production planning and control functions
3. able to solve demand forecasting problems
4. able to solve supply problems
5. able to solve aggregate planning and disaggregation problems
6. able to solve material system requirement problem</td></tr>
<tr><td colspan="2">Study and examination requirements and forms of examination</td><td colspan="5">The final mark will be weighted as follows:
No | Assessment components | Assessment Type | Weight (percentage)
1 | CO 1 | Quiz | 15%
2 | CO 2 | Assignment | 15%</td></tr>
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	3	CO 3	Assignment and Midterm Exam	20%
	4	CO 4	Assignment	15%
	5	CO 5	Assignment and Final Exam	35%
Media employed	Google Classroom, relevant websites, slides (power points), video, interactive media, white-board, laptop, LCD projector			
Reading list	1. Bedwarth, D. D. et al, 1987, Integral Production Control System, John Wiley and Sons, New York 2. Narasimhan, S. L., McLeavy, D. W. and Billington, P. J., 1995, Production, Planning and Inventory Control, Prentice Hall, New Jersey. 3. 3. Heizer Jay, Render Barry, 2011, Operation Management, Edisi kesepuluh, Pretice Hall, New Jersey			

Mapping CO, PLO, and ASIIN's SSC

ASIIN		PLO											
		E	N	T	H	U	S	I	A	S	T	I	C
Knowledge	a												
	b												
	c												
	d												
Ability	e												
	f											CO1 CO2	
Competency	g												
	h											CO3 CO4	
	i												
	j												
	k												
	l											CO5	