

**COURSE LIST IN 2018 - 2024 CURRICULUM
PROGRAM DOCTOR**

COURSE

No	Code	Course	Credit
SEMESTER I MANUFACTURING SYSTEM ENGINEERING AND MANAGEMENT			
1	TI186101	Science Philosophy and Research Methodology	3
2	TI186102	Academic Writting	2
3	TI186111	Integrated Manufacturing System	3
	Credit Subtotal		8
No	Code	Course	Credit
SEMESTER I INDUSTRIAL SYSTEMS OPTIMIZATION AND ENGINEERING			
1	TI186101	Science Philosophy and Research Methodology	3
2	TI186102	Academic Writting	2
3	TI186121	Quantitative Modeling and Analysis	3
	Credit Subtotal		8
No	Code	Course	Credit
SEMESTER I LOGISTIC & SUPPLY CHAIN MANAGEMENT			
1	TI186101	Science Philosophy and Research Methodology	3
2	TI186102	Academic Writting	2
3	TI186131	Supply Chain Modeling	3
	Credit Subtotal		8
No	Code	Course	Credit
SEMESTER I HUMAN FACTORs AND OCCUPATIONAL SAFETY & HEALTH ENG.			
1	TI186101	Science Philosophy and Research Methodology	3
2	TI186102	Academic Writting	2
3	TI186141	Human Factors in Industrial Systems	3
	Credit Subtotal		8
No	Code	Course	Credit
SEMESTER I ENGINEERING MANAGEMENT			
1	TI186101	Science Philosophy and Research Methodology	3
2	TI186102	Academic Writting	2
3	TI186151	Engineering Project Management	3
	Credit Subtotal		8

SEMESTER II			
No	Code	Course	Credit
ALL CONCENTRATION			
1	TI186201	Disertation 1: Internal Progress 1	2
2	TI186202	Disertation 2: Pra Qualification	3

	Jumlah SKS		5
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SEMESTER III			
No	Code	Course	Credit
ALL CONCENTRATION			
1	TI186301	Disertation 3: Qualification	7
	Jumlah SKS		7

SEMESTER IV			
No	Code	Course	Credit
ALL CONCENTRATION			
1	TI186401	Disertation 4: Internal Progress 2	3
2	TI186402	Disertation 5: Internal Progress 3	3
	Jumlah SKS		6

SEMESTER V			
No	Code	Course	Credit
ALL CONCENTRATION			
1	TI186501	Publication	6
	Jumlah SKS		6

SEMESTER VI			
No	Code	Course)	Credit
ALL CONCENTRATION			
1	TI186601	Disertation 6: Defense	7
2	TI186602	Disertation 7: Doctoral Promotion	3
	Jumlah SKS		10

ELECTIVE COURSE

No.	Code	Course	Credit
1	TI186711	Integrated Manufacturing System	3
2	TI186721	Quantitative Modeling and Analysis	3
3	TI186731	Supply Chain Modeling	3
4	TI186741	Human Factors in Industrial Systems	3
5	TI186751	Engineering Project Management	3
6	TI186732	Supply Chain Engineering	3
7	TI186722	Advanced Operations Research	3
8	TI186723	Simulation for IE	2
9	TI186724	Industrial Systems Policy Engineering and Analysis	3
10	TI186725	Advanced Industrial Statistics	2
11	TI186733	Contemporary Logistic	3