

Curriculum Structure for Dual Degree TJU					
YEAR	SEM	CORE	CODE	COURSE	SLT CREDIT
YEAR 1	SEM 1	Foundation	ULE1310	FUNDAMENTALS OF ENGLISH LANGUAGE	0
		University	UHC1012	FALSAFAH DAN ISU SEMASA	2
		Foundation	BUM2123	APPLIED CALCULUS	3
		Program	BKC1253	PHYSICAL CHEMISTRY	3
		Program	BKC1752	CHEMICAL ENGINEERING LAB I	2
		Program	BEL1113	FUNDAMENTAL OF ELECTRICAL ENGINEERING	3
		Program	BMM1213	STATICS	3
		Foundation	ULM1312	MANDARIN A1	2
			TOTAL		18
	SEM 2	University	UHC2022	PENGHAYATAN ETIKA DAN PERADABAN	2
		Foundation	ULE1322	ENGLISH FOR ACADEMIC COMMUNICATION	2
		Foundation	BUM2133	ORDINARY DIFFERENTIAL EQUATIONS	3
		Program	BKC1333	THERMODYNAMICS	3
		Program	BKC1323	ORGANIC CHEMISTRY	3
		Program	BCI1103	COMPUTER PROGRAMMING	3
		University	UQA2002	CO-CURRICULUM	2
		SPPT	ULM1913	CHINESE CHARACTERS WRITING 1	0
			TOTAL		18
	SHORT SEM	SPPT	ULM1923	CHINESE CHARACTERS WRITING 2	0
			TOTAL		0
YEAR 2	SEM 3	Foundation	ULE2332	ENGLISH FOR TECHNICAL COMMUNICATION	2
		Foundation	BUM2413	APPLIED STATISTICS	3
		Program	BKC2413	CHEMICAL ENGINEERING THERMODYNAMICS	3
		Program	BKC3002	SUSTAINABLE ENERGY	2
		Program	KUK4412	PROJECT MANAGEMENT	2
		Program	KUK3562	OCCUPATIONAL SAFETY & HEALTH	2
		Program	BMM1133	MATERIAL SCIENCE	3
		Program	BKC2732	CHEMICAL ENGINEERING LAB II	2
		SPPT	ULM1933	MANDARIN LOWER INTERMEDIATE	0
			TOTAL		19
	SEM 4	University	UHC1032	KURSUS INTEGRITI DAN ANTI-RASUAH (KIAR)	2
		Program	BKC2343	MATERIAL & ENERGY BALANCE	3
		Program	BKC1243	ANALYTICAL CHEMISTRY	3
		Program	KUK2142	ENGINEERING ECONOMICS	2

		Program	KUK2443	NUMERICAL METHODS & OPTIMIZATION	3
		University	UGE2002	TECHNOPRENEURSHIP	2
		Program	KUK3022	ENGINEERS IN SOCIETY	2
		Foundation	ULE2342	ENGLISH FOR PROFESSIONAL COMMUNICATION	2
		SPPT	ULM1943	MANDARIN UPPER INTERMEDIATE	0
			TOTAL		
	SHORT SEM	SPPT	ULM1953	CAPSTONE PROJECT FOR HSK 3	0
				HSK 3 TEST	0
		TOTAL			74
YEAR 3	SEM 5			OVERVIEW CHINA	3
				CHINESE LEVEL 4 HSK 4 TEST	6
		2070070		CHEMICAL PROCESS SAFETY	3.5
		2070681		FLUID MECHANICS	4.375
		2070683		HEAT TRANSFER	4.375
		2070689		CHEMICAL ENGINEERING LAB (1)	2.625
		2070688		MASS TRANSFER	5.25
			TOTAL		
	SEM 6	2070692		CHEMICAL PROCESS FLOWSHEETING	3.5
		2070690		CHEMICAL REACTION ENGINEERING	5.25
		2070694		INSTRUMENTATION AND CONTROL	3.5
		2070695		SEPARATION PROCESS	4.375
		2070696		CHEMICAL ENGINEERING LAB (2)	3.5
		2070697		ENVIRONMENTAL CHEMICAL ENGINEERING	4.375
		2070687		RESEARCH PROJECT (1) – (CHEMICAL ENGINEERING: DESIGN 1)	3.5
2070110			INDUSTRIAL VISIT AND PRACTICE 1 (with 1-week Industrial Training)	0.5	
	TOTAL			28.5	
YEAR 3	SHORT SEM			INDUSTRIAL TRAINING (with 7-weeks Industrial Training)	3.5
			TOTAL		
YEAR 4	SEM 7	2070403		INDUSTRIAL VISIT AND PRACTICE 2 (with 2-weeks Industrial Training)	1
		2070698		CHEMICAL PROCESS DESIGN	5.25
		2070693		ANALYSIS AND SYNTHESIS OF CHEMICAL PROCESSES	3.5
		2070700		INDUSTRIAL CHEMICAL PROCESSES	4.375

		2070703	MOLECULAR SCIENCE AND PRODUCT ENGINEERING	3.5
		2070701	RESEARCH PROJECT (2)-(CHEMICAL ENGINEERING: DESIGN 2)	3.5
		TOTAL		21.12
	SEM 8	2070748	INTRODUCTION TO THE PRINCIPLE OF HETEROGENEOUS CATALYSIS	3.5
		2070624	FINAL DESIGN PROJECT	17.5
		TOTAL		21