

Mechanical Engineering (English program 4+0) From Intake 2015 onwards

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
Pre	1	K n ng m m	Soft Skills	2
Pre	2	Giáo d c th ch t 1	Physical Training 1	0
Total Credits				2

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
1	1	Anh v n 1	English 1	2
1	2	Anh v n 2	English 2	2
Total Credits				4

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
2	1	Anh v n 3	English 3	2
2	2	Anh v n 4	English 4	2
Total Credits				4

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
3	1	Giáo d c qu c phòng (LT)	Military Training A	0
3	2	Giáo d c qu c phòng (TH)	Military Training B	0
3	3	Giáo d c th ch t 2	Physical Training 2	0
3	4	i s	Linear Algebra	3
3	5	Gi i tích 1	Calculus 1	4
3	6	V t lý 1	Physics 1	4
3	7	Nh p môn v k thu t	Introduction to Engineering	3
Total Credits				14

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
4	1	Giáo d c th ch t 3	Physical Training 3	0
4	2	Gi i tích 2	Calculus 2	4
4	3	V t lý 2	Physics 2	4
4	4	Thí nghi m V t lý	Physics Lab.	1
4	5	C h c lý thuy t	Engineering Mechanics	3
4	6	V k thu t	Engineering Drawing	3
4	7	Th ct p c khí ic ng 1	General Mechanical Engineering Workshop 1	1
Total Credits				16

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
5	1	S c b n v t l i u	Strength of Materials	3
5	2	Nguyên lý máy	Kinematics and Dynamics of Machines	3
5	3	Hóa i c n g	General Chemistry	3
5	4	V c k h í	Mechanical Engineering Drawing	3
5	5	Th c t p c k h í i c n g 2	General Mechanical Engineering Workshop 2	1
5	6	C l u c h t	Fluid Mechanics	3
5	7	Pháp lu t Vi t Nam i c n g	Introduction to VN Law Systems	2
Total Credits				18

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
6	1	Nhi t n g l c h c và truy n nhi t	Thermodynamics and Heat Transfer	3
6	2	V t l i u h c và x lý	Materials and Heat Treatment	3
6	3	Chi ti t máy	Machine Elements	3
6	4	Nh p môn v l p trình	Introduction to Information Technology	3
6	5	Trang b i n - i n t trong máy CN	Electrical and Electronic Equipment for Industrial Machinery	4
Total Credits				16

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
7	1	Dung sai và k thu t o	Tolerance and Measurement Engineering	3
7	2	Ph n g pháp tính	Numerical Analysis	3
7	3	Nh n g nguyên lý c b n ch n g h a Mác-LêNin	Basic principles of Marxism-Leninism	5
7	4	Th c t p K thu t (KT Ch t o, KT Thi t k)	Technical Internship	1
7	5	Các quá trình ch t o	Manufacturing Processes	3
7	6	án thi t k	Project - Machine Design	1
7	7	K thu t th y l c và khí nén	Hydraulic and Pneumatic Engineering	3
Total Credits				19

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
8	1	T t n g H Chí Minh	HoChiMinh Ideology	2
8	2	K thu t i u khi n t n g	Control System Technology	3
8	3	Xác su t th n g kê	Probability and Statistics	3
8	4	Môi tr n g và con ng i	Environment and Human	3
8	5	T ch n A1	Fundamental Elective courses A1	3
8	6	T ch n A2	Fundamental Elective courses A2	3
8	7	Th c t p t t nghi p	Internship	3

Total Credits	20
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Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
9	1	ng l i cách m ng CSVN	Revolutionary policies of The Vietnam communist party	3
9	2	T ch n A3	Fundamental Elective courses A3	3
9	3	T ch n B1	Fundamental Elective courses B1	3
9	4	T ch n B2	Fundamental Elective courses B2	3
9	5	án chuyên ngành	Specialized Project	1
9	6	Lu n v n t t nghi p (nh h ng Thi t k và Ch t o)	Thesis	3
Total Credits				16

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
10	1	Lu n v n t t nghi p (theo nh h ng Thi t k và Ch t o)	Thesis	6
10	2	Ch n m t trong các môn sau: Kinh t h c i c ng, Qu n tr kinh doanh cho k s , L p và phân tích d án cho k s , Qu n lý s n xu t cho k s , Qu n lý d án cho k s		3
10	3	T ch n A4	Fundamental Elective courses A4	3
10	4	T ch n B3	Fundamental Elective courses B3	3
Total Credits				15

Total Credits of Major	144
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Note: Elective courses

T ch n A: ch n 13 tín ch , ch n 1 trong 2 nh h ng:

1. K thu t Thi t k

No.	Subjects (Vietnamese)	Subjects (English)	Credit
1	Ph ng pháp ph n t h u h n	The Finite Element Method	3
2	Mô hình hóa hình h c và mô ph ng	Geometric Modelling	3
3	Thi t k h th ng c khí	Mechanical System Design	3
4	ng l ch c c h	Dynamics of Mechanical Systems	3
5	A Thi t k h th ng c khí	Project - Mechanical System Design	1
Total Credits			13

2. K thu t Ch t o

No.	Subjects (Vietnamese)	Subjects (English)	Credit
1	K thu t ch t o 1	Manufacturing Engineering 1	3
2	K thu t ch t o 2	Manufacturing Engineering 2	3
3	K thu t ch t o 3	Manufacturing Engineering 3	3

4	CAD/CAM	CAD/CAM	3
5	án K thu t ch t o	Project - Manufacturing Engineering	1
Total Credits			13

T ch n B: Ch n các môn h c ch a h c ph n t ch n A, các môn theo danh sách sau ho c các môn h c ch ng trình K thu t C i n t :

No.	Subjects (Vietnamese)	Subjects (English)	Credit
1	Công ngh v t li u nh a và gia công khuôn	Technology of Plastic and Moulding	3
2	T o m u nhanh	Rapid Prototyping Technology	3
3	m b o ch t l ng	Quality Assurance	3
4	K thu t mô ph ng	Modeling and Simulation	3
5	Thi t k m b o kh n ng ch t o và l p ráp	Design for Manufacturing and Assembly	3
6	K thu t CNC	CNC Technology	3
7	Công ngh PLC và SCADA	PLC and SCADA technology	3
8	T ng hóa s n xu t	Manufacturing Automation	3
9	Dao ng k thu t	Engineering Vibration	3
10	Tính toán c h c và k t c u máy	Mechanical Calculation and Structure of Machines	3
11	Thi t k khuôn trên tích h p CAD/CAE	Mold Design on CAD/CAE Integrated Systems	3
12	T i u hóa và qui ho ch th c nghi m	Optimization and Design of Experiments	3
13	Phân tích và t i u k t c u	Optimal Design and Analysis of Structure	3
14	L a ch n v t li u trong thi t k	Materials Selection in Mechanical Design	3
15	Quá trình thi t k k thu t	Mechanical Engineering Design Process	3
16	K thu t tin c y	Reliability Engineering	3
17	K thu t nâng v n chuy n	Handling Equipment Engineering	3