1. Program Content

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
11.1		**General education**									
11.1.1		**Social sciences and humanities**									
11.1.1.1		**Required**									
1.	LP6010_EN	Philosophy of Marxism Leninism	3.0	3.0	0.0	0.0	0.0	0.0	1		
2.	LP6011_EN	Political Economy of Marxism Leninism	2.0	2.0	0.0	0.0	0.0	0.0	2		
3.	LP6012_EN	Scientific socialism	2.0	2.0	0.0	0.0	0.0	0.0	5		
4.	LP6004_EN	Ho Chi Minh's Ideology	2.0	2.0	0.0	0.0	0.0	0.0	6		
5.	LP6013_EN	History of Vietnam Communist Party	2.0	2.0	0.0	0.0	0.0	0.0	7		
6.	LP6003_EN	General law	2.0	2.0	0.0	0.0	0.0	0.0	8		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
7.	BS6018_EN	Intercultural communication	2.0	2.0	0.0	0.0	0.0	0.0	2		
11.1.1.2	**TCoto1**	**Elective (Select one course from Group 1 and Group 2 each)**	4.0	4.0	0.0	0.0	0.0	0.0	4		
SE1		**Group 1**	2.0	2.0	0.0	0.0	0.0	0.0			
8.	BS6021_EN	Human and the Environment	2.0	2.0	0.0	0.0	0.0	0.0	6		
9.	BS6019_EN	Introduction to Scientific Research	2.0	2.0	0.0	0.0	0.0	0.0	6		
10.	BS6020_EN	Labor and Employment Relations	2.0	2.0	0.0	0.0	0.0	0.0	6		
11.	SE6197_EN	Project Management	2.0	2.0	0.0	0.0	0.0	0.0	6		
12.	SE6036_EN	Principles of Economics	2.0	2.0	0.0	0.0	0.0	0.0	6		
13.	SM6186_EN	Professionalism in Workplace	2.0	2.0	0.0	0.0	0.0	0.0	6		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
SE2		**Group 2**	2.0	2.0	0.0	0.0	0.0	0.0			
14.	BS6022_EN	General Music	2.0	2.0	0.0	0.0	0.0	0.0	6		
15.	BS6024_EN	General Fine Art	2.0	2.0	0.0	0.0	0.0	0.0	6		
16.	BS6023_EN	General Artistry	2.0	2.0	0.0	0.0	0.0	0.0	6		
11.1.2	**Select one of the four foreign language modules**		10	10	0	0	30	0			
		Chinese module									
17.	FL6339	Chinese 1	5.0	5.0	0.0	0.0	0.0	0.0	4		
18.	FL6340	Chinese 2	5.0	5.0	0.0	0.0	0.0	0.0	5		
		Korean module									
19.	FL6335	Korean 1	5.0	5.0	0.0	0.0	0.0	0.0	4		
20.	FL6336	Korean 2	5.0	5.0	0.0	0.0	0.0	0.0	5		
		Japanese module									
21.	FL6337	Japanese 1	5.0	5.0	0.0	0.0	0.0	0.0	4		
22.	FL6338	Japanese 2	5.0	5.0	0.0	0.0	0.0	0.0	5		
		English module									
23.	SL6325_EN	English for Mechanical and	5.0	5.0	0.0	0.0	0.0	0.0	4		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
		Automotive Engineering 1									
24.	SL6326_EN	English for Mechanical and Automotive Engineering 2	5.0	5.0	0.0	0.0	0.0	0.0	5		
		German module									
25.	FL6582	German 1	5.0	5.0	0.0	0.0	0.0	0.0	4		
26.	FL6583	German 2	5.0	5.0	0.0	0.0	0.0	0.0	5		
11.1.3		**Natural Sciences**									
11.1.3.1		**Required**									
27.	BS6002_EN	Calculus	3.0	3.0	0.0	0.0	0.0		1		
28.	BS6004_EN	Technical Mathematics	3.0	3.0	0.0	0.0	0.0		2		
29.	BS6008_EN	Probability Statistics	3.0	3.0	0.0	0.0	0.0		3		
30.	BS6027_EN	General Physics	3.0	2.0	1.0	0.0	0.0	0.0	1		
11.1.3.2	**TCoto2**	**Elective**	6.0	6.0	0.0	0.0	0.0	0.0			
31.	BS6003_EN	Method of	3.0	3.0	0.0	0.0	0.0	0.0	2		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
		Calculus									
32.	SC6092_EN	Numerical Methods for Programming	3.0	3.0	0.0	0.0	0.0	0.0	2		
33.	SC6091_EN	Discrete mathematics	3.0	3.0	0.0	0.0	0.0	0.0	2		
34.	BS6007_EN	Physics II	3.0	3.0	0.0	0.0	0.0	0.0	2		
35.	CT6001_EN	Fundamental Chemistry	3.0	2.0	1.0	0.0	0.0	0.0	2		
11.1.4		**Supplemental module**									
11.1.4.1		**Required**									
36.	SC6201_EN	Enhancing Digital Competencies	3.0	2.0	1.0	0.0	0.0		4		
11.1.4.2		**Elective**									
11.1.5		**National defense and security education**	8.5	8.5	0.0	0.0	0.0	0.0	1,2		
37.		According to									

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
		Circular No. 05/2020/TT-BGDDT on March 18th, 2020									
11.1.6		**Physical education**	4.0	4.0	0.0	0.0	0.0	0.0	1,2,3		
38.		According to Regulations on physical education attached with Decision No …./QD-DHCN on ../…/2024 by HaUI									
11.2		**Professional Education Content**									
11.2.1		**Sector foundation content**									

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
11.2.1.1		**Required**									
39.	SM6050_EN	Engineering Drawing	3.0	3.0	0.0	0.0	0.0	0.0	1		
40.	SC6015_EN	Programming Techniques	3.0	2.0	1.0	0.0	0.0	0.0	5		
41.	SM6176_EN	Industrial Health and Safety	2.0	2.0	0.0	0.0	0.0	0.0	6		
42.	SEE6135_EN	Fundamentals of Electrical and Electronics	3.0	2.0	1.0	0.0	0.0	0.0	3		
43.	SM6140_EN	Materials Engineering	2.0	2.0	0.0	0.0	0.0	0.0	3		
44.	SM6178_EN	Engineering Mechanics	3.0	3.0	0.0	0.0	0.0	0.0	2		BS6027_EN
45.	SM6055_EN	Strength of Materials	2.0	2.0	0.0	0.0	0.0	0.0	3		SM6178_EN
46.	SM6054_EN	Theory of Mechanisms and Machine	2.0	2.0	0.0	0.0	0.0	0.0	3		
47.	SM6056_EN	Machine Elements	2.0	2.0	0.0	0.0	0.0	0.0	4		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
48.	SM6057_EN	Experimental Facility Design Tools	1.0	0.0	1.0	0.0	0.0	0.0	5		
49.	SM6048_EN	Introduction to Engineering	2.0	2.0	0.0	0.0	0.0	0.0	1		
11.2.2		**Discipline foundation content**									
11.2.2.1		**Required**									
50.	SM6138_EN	Basic Mechanical Practice	2.0	0.0	2.0	0.0	0.0	0.0	3		
51.	SM6059_EN	Tolerances and Measuring	2.0	2.0	0.0	0.0	0.0	0.0	4		
52.	SM6092_EN	Automotive Engineering Basic Project	1.0	0.0	0.0	0.0	1.0	0.0	6		
53.	SM6153_EN	Tolerances and Measuring Practices	1.0	0.0	1.0	0.0	0.0	0.0	4		
54.	SM6049_EN	Introduction to	1.0	0.0	0.0	0.0	1.0	0.0	2		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
		Engineering Project									
55.	SM6190_EN	Thermodynamics	2.0	2.0	0.0	0.0	0.0	0.0	2		
56.	SM6195_EN	Computer Aided Design	2.0	0.0	2.0	0.0	0.0	0.0	3		SM6050_EN
57.	SM6093_EN	Automotive Structure	2.0	2.0	0.0	0.0	0.0	0.0	3		SM6049_EN
58.	SM6167_EN	Fundamentals of Vehicle Dynamics	3.0	2.0	0.0	1.0	0.0	0.0	4		SM6049_EN
59.	SM6094_EN	Internal Combustion Engine	3.0	3.0	0.0	0.0	0.0	0.0	4		SM6190_EN
60.	SM6029_EN	Automotive Electrical and Electronic Systems	2.0	2.0	0.0	0.0	0.0	0.0	5		SM6049_EN
11.2.2.2		**Elective**	2.0	2.0	0.0	0.0	0.0	0.0			
61.	SM6096_EN	Sensors and Measurement Systems	2.0	2.0	0.0	0.0	0.0	0.0	5		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
62.	SM6121_EN	Actuators and Control	2.0	2.0	0.0	0.0	0.0	0.0	5		
63.	SM6098_EN	Intelligent Transportation Systems and Vehicles	2.0	2.0	0.0	0.0	0.0	0.0	5		
64.	SM6099_EN	Automotive Safety and Sonvenience Technology	2.0	2.0	0.0	0.0	0.0	0.0	5		
65.	SM6101_EN	New Energy in Automobiles	2.0	2.0	0.0	0.0	0.0	0.0	5		
66.	SM6102_EN	Automotive Exhaust Emissions Control	2.0	2.0	0.0	0.0	0.0	0.0	5		
11.2.3		**Major specific**									
11.2.3.1		**Required**									
67.	SM6103_EN	Software Engineering for Automotive Systems	2.0	0.0	2.0	0.0	0.0	0.0	6		SM6167_EN

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
68.	SM6163_EN	Specialized Automobile Projects	2.0	0.0	0.0	0.0	2.0	0.0	7		SM6169_EN
69.	SM6169_EN	Car Design-calculation	3.0	2.0	0.0	1.0	0.0	0.0	5		SM6093_EN
70.	SM6104_EN	Automotive Technical Diagnosis and Maintenance	2.0	2.0	0.0	0.0	0.0	0.0	6		BS6008_EN, SM6093_EN
71.	SM6105_EN	Practice Automotive Technical Diagnosis and Maintenance	2.0	0.0	2.0	0.0	0.0	0.0	7		SM6093_EN
72.	SM6162_EN	Automotive Body Manufacturing Systems and Processes	2.0	2.0	0.0	0.0	0.0	0.0	7		
73.	SM6106_EN	Automotive Testing and Data Processing	1.0	0.0	1.0	0.0	0.0	0.0	8		SM6104_EN

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
74.	SM6168_EN	Automobile Inspection and Utilization Techniques	2.0	2.0	0.0	0.0	0.0	0.0	8		
75.	SM6107_EN	Vehicle Automatic Control	2.0	2.0	0.0	0.0	0.0	0.0	8		
11.2.4.2	**TCoto4**	**Elective**	**2.0**	**2.0**	**0.0**	**0.0**	**0.0**	**0.0**	**7**		
76.	SM6109_EN	Advances in Automotive Pneumatic and Hydraulic	2.0	2.0	0.0	0.0	0.0	0.0	7		
77.	SM6110_EN	Technology of Automotive Body	2.0	2.0	0.0	0.0	0.0	0.0	7		
78.	SM6111_EN	Vehicle Vibration and Noise	2.0	2.0	0.0	0.0	0.0	0.0	7		
79.	SM6146_EN	Advances in Automotive Component Manufacturing	2.0	2.0	0.0	0.0	0.0	0.0	7		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
80.	SM6028_EN	Electric and Hybrid Vehicles	2.0	2.0	0.0	0.0	0.0	0.0	7		
81.	SM6108_EN	Control of Electric Vehicles	2.0	2.0	0.0	0.0	0.0	0.0	7		
11.3		**Supplemental content**	12	12	0.0	0.0	0.0	0.0			
11.3.1		***Required***	2.0	2.0	0.0	0.0	0.0	0.0	7		
		Depending on the discipline, supplemental content related to soft skills development can be added in the curriculum									
82.	SE6134_EN	Innovation and Entrepreneurial Mindset	2.0	2.0	0.0	0.0	0.0	0.0	8		
11.3.2		***Elective (Select one of four foreign language***	5.0	5.0	0.0	0.0	0.0	0.0			

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
		modules)									
		Chinese module									
83.	FL6560	Basic Chinese 1	5.0	5.0	0.0	0.0	0.0	0.0	1		
84.	FL6561	Basic Chinese 2	5.0	5.0	0.0	0.0	0.0	0.0	2		
		German module									
85.	FL6580	Basic German 1	5.0	5.0	0.0	0.0	0.0	0.0	1		
86.	FL6581	Basic German 2	5.0	5.0	0.0	0.0	0.0	0.0	2		
		Korean module									
87.	FL6564	Basic Korean 1	5.0	5.0	0.0	0.0	0.0	0.0	1		
88.	FL6565	Basic Korean 2	5.0	5.0	0.0	0.0	0.0	0.0	2		
		Japanese module									
89.	FL6562	Basic Japanese 1	5.0	5.0	0.0	0.0	0.0	0.0	1		
90.	FL6563	Basic Japanese 2	5.0	5.0	0.0	0.0	0.0	0.0	2		
		English module									
91.	SL6311_EN	Basic English for Mechanical and Automotive Engineering 1	5.0	5.0	0.0	0.0	0.0	0.0	1		

No	Course code	Curricular area/Course title	Number of credits	Credit					Semester	Preliminary courses	Prerequisite courses
				Theory	Practice	Assignment	Project	Internship			
92.	SL6312_EN	Basic English for Mechanical and Automotive Engineering 2	5.0	5.0	0.0	0.0	0.0	0.0	2		
11.4		**Graduate internship and graduation thesis/project**	**15**	**0.0**	**0.0**	**0.0**	**8.0**	**7.0**			
93.	SM6152_EN	Graduate internship	7.0	0.0	0.0	0.0	0.0	7.0	9		SM6105_EN
94.	SM6149_EN	Graduation thesis	8.0	0.0	0.0	0.0	8.0	0.0	9		