



INTERNATIONAL UNIVERSITY  
VIET NAM NATIONAL UNIVERSITY HO CHI MINH CITY  
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**SCHOOL OF BUSINESS**

**1. Business Administration**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	EN007IU	Writing AE1	2	1, 3
2	EN008IU	Listening AE1	2	1, 3
3	EN011IU	Writing AE2	2	1, 2, 3
4	EN012IU	Speaking AE2	2	1, 2, 3
5	BA117IU	Introduction to Micro Economics	3	1
6	BA115IU	Introduction to Business Administration	3	1
7	BA120IU	Business Computing Skills	3	1, 3
8	BA005IU	Financial Accounting	3	1
9	PE008IU	Critical Thinking	3	1, 3
10	PT001IU	Physical Training 1	3	1
11	PT002IU	Physical Training 2	3	2
12	BA282IU	Math for Business	4	2
13	BA119IU	Introduction to Macro Economics	3	2
14	BA123IU	Principles of Management	3	2
15	BA003IU	Principles of Marketing	3	1
16	BA080IU	Statistics for Business	3	1
17	BA167IU	Introduction to Vietnamese Legal System	3	1
18	BA256IU	Workshop 1	3	2
19	BA130IU	Organizational Behavior	3	2
20	BA068IU	International Economics	3	2
21	BA168IU	Quantitative Methods for Business	3	2
22	BA016IU	Fundamental of Financial Management	3	2
<b>Elective course: Choose 01 of 02 following courses</b>				
23	BA118IU	Introduction to Psychology	3	1,3
24	BA197IU	Introduction to Sociology	3	1,3
25	PE007IU	World Economic Geography	3	2
26	PE010IU	Vietnamese History and Culture	3	2
<b>1.1 Business Management</b>				
1	BA020IU	Business Ethics	3	1
2	BA081IU	Business Law	3	1
3	BA162IU	Strategy Formulation and Implementation	3	1
4	BA164IU	Production and Operations Management	3	1
5	PE014IU	Environmental Science	3	1
6	BA018IU	Quality Management	3	2
7	BA006IU	Business Communication	3	2



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8	BA154IU	Entrepreneurship and Small Business Management	3	2
9	BA156IU	Human Resources Management	3	2
10	BA153IU	Internship	3	3
11	BA022IU	Logistic and Supply Chain Management	3	1
12	BA023IU	Project Management	3	1
13	BA161IU	Business Research Methods	3	1
14	BA274IU	Workshop 2 Business Management	2	1
15	BA170IU	Thesis	12	2
<b>Elective course: Choose 01 of 02 following courses</b>				
16	BA027IU	E - Commerce	3	1
17	BA169IU	Management Information Systems	3	1
<b>Elective course: Choose 03 of 13 following courses</b>				
18	BA032IU	Sales Management	3	1, 2
19	BA038IU	Customer Service Management	3	1, 2
20	BA051IU	International Financial Management	3	1, 2
21	BA098IU	Leadership	3	1, 2
22	BA140IU	Business Game	3	1, 2
23	BA150IU	Special Study	3	1, 2
24	BA151IU	International Business Management	3	1, 2
25	BA158IU	Organizational Design and Change	3	
26	BA160IU	Negotiation and Relationship Management	3	
27	BA171IU	Risk Management	3	
28	BA176IU	Franchising	3	
29	BA255IU	Specialized Internship	3	
<b>Workshops (Choose 02 of 05 following courses)</b>				
30	BA272IU	Workshop 2 on Hospitality Management	2	1, 2
31	BA275IU	Workshop 2 on Marketing	2	1, 2
32	BA257IU	Workshop 2 on Finance	2	1, 2
33	BA273IU	Workshop 2 on International Business	2	1, 2
34	BA281IU	Workshop 2 on Accounting Issues	2	1, 2
<b>1.2 International Business</b>				
1	BA020IU	Business Ethics	3	1
2	BA081IU	Business Law	3	1
3	BA162IU	Strategy Formulation and Implementation	3	1
4	BA164IU	Production and Operations Management	3	1
5	PE014IU	Environmental Science	3	1
6	BA051IU	International Financial Management	3	2
7	BA006IU	Business Communication	3	2
8	BA151IU	International Business Management	3	2



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9	BA153IU	Internship	3	3
10	BA084IU	Import Export Management	3	1
11	BA145IU	International Marketing	3	1
12	BA161IU	Business Research Methods	3	1
13	BA273IU	Workshop 2 on International Business	2	1
14	BA170IU	Thesis	12	2
<b>Elective course: Choose 01 of 02 following courses</b>				
15	BA027IU	E - Commerce	3	
16	BA169IU	Management Information Systems	3	
17	BA153IU	Internship	3	3
<b>Elective Courses (Choose 04 of 16 following courses)</b>				
18	BA054IU	Corporate Finance	3	1, 2
19	BA082IU	Brand Management	3	1, 2
20	BA099IU	Global Strategic Management	3	1, 2
21	BA098IU	Leadership	3	1, 2
22	BA140IU	Business Game	3	1, 2
23	BA150IU	Special Study	3	1, 2
24	BA152IU	International Business Law	3	1, 2
25	BA213IU	Corporate Governance	3	1, 2
26	BA160IU	Negotiation and Relationship Management	3	1, 2
27	BA255IU	Specialized Internship	3	1, 2
28	BA171IU	Risk Management	3	1, 2
29	BA176IU	Franchising	3	1, 2
30	BA154IU	Entrepreneurship and Small Business Management	3	1, 2
31	BA155IU	Multicultural Management	3	1, 2
32	BA156IU	Human Resources Management	3	1, 2
<b>Workshops (Choose 02 of 05 following courses)</b>				
33	BA272IU	Workshop 2 on Hospitality Management	2	1, 2
34	BA274IU	Workshop 2 Business Management	2	1, 2
35	BA257IU	Workshop 2 on Finance	2	1, 2
36	BA275IU	Workshop 2 on Marketing	2	1, 2
37	BA281IU	Workshop 2 on Accounting Issues	2	1, 2
<b>1.3 Marketing</b>				
38	BA020IU	Business Ethics	3	1
39	BA081IU	Business Law	3	1
40	BA162IU	Strategy Formulation and Implementation	3	1
41	BA164IU	Production and Operations Management	3	1
42	PE014IU	Environmental Science	3	1
43	BA035IU	Marketing Research	3	2



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44	BA006IU	Business Communication	3	2
45	BA083IU	Consumer Behavior	3	2
46	BA153IU	Internship	3	3
47	BA142IU	Marketing Strategy	3	1
48	BA145IU	International Marketing	3	1
49	BA161IU	Business Research Methods	3	1
50	BA275IU	Workshop 2 on Marketing	2	1
51	BA170IU	Thesis	12	2
<b>Elective Courses (Choose 01 of 02 following courses)</b>				
52	BA027IU	E - Commerce	3	1
53	BA169IU	Management Information Systems	3	1
<b>Elective Courses (Choose 04 of 14 following courses)</b>				
54	BA032IU	Sales Management	3	1, 2
55	BA023IU	Project Management	3	1, 2
56	BA045IU	B2B Marketing	3	1, 2
57	BA082IU	Brand Management	3	1, 2
58	BA140IU	Business Game	3	1, 2
59	BA150IU	Special Study	3	1, 2
60	BA094IU	Advertising and PR	3	1, 2
61	BA146IU	Retail Management	3	1, 2
62	BA148IU	Interactive Marketing	3	1, 2
63	BA149IU	New Product Planning	3	1, 2
64	BA176IU	Franchising	3	1, 2
65	BA182IU	Customer Relationship Management	3	1, 2
66	BA183IU	Marketing Channels	3	1, 2
67	BA255IU	Specialized Internship	3	1, 2
<b>Workshops (Choose 02 of 05 following courses)</b>				
68	BA272IU	Workshop 2 on Hospitality Management	2	1, 2
69	BA274IU	Workshop 2 Business Management	2	1, 2
70	BA247IU	Workshop 2 on Finance	2	1, 2
71	BA273IU	Workshop 2 on International Business	2	1, 2
72	BA281IU	Workshop 2 on Accounting Issues	2	1, 2
<b>1.4 Hospitality Management</b>				
73	BA020IU	Business Ethics	3	1
74	BA198IU	Introduction to Hospitality Industry	3	1
75	BA228IU	Food and Beverage Management	3	1
76	BA226IU	Leadership and Management Skills in Hospitality Management	3	1
77	BA206IU	Hospitality Legal Issues	3	1
78	BA254IU	Houskeeping Operations & Management	3	2



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79	BA006IU	Business Communication	3	2
80	BA229IU	The Professional Waiter	3	2
81	BA156IU	Human Resources Management	3	2
82	BA231IU	Front Office Mangement and Operation	3	2
83	BA153IU	Internship	3	3
84	BA233IU	Hotel Management and Operation	3	1
85	BA232IU	Hospitality Sales and Marketing	3	1
86	BA161IU	Business Research Methods	3	1
87	BA272IU	Workshop 2 on Hospitality Management	2	1
88	BA170IU	Thesis	12	2
<b>Elective Courses (Choose 03 of 13 following courses)</b>				
89	BA081IU	Business Law	3	1
90	BA154IU	Entrepreneurship and Small Business Management	3	1
91	BA207IU	Safety, Sanitation and Security	3	1
92	BA211IU	Cruise Line Operation and Management	3	1
93	BA223IU	Conference and Event Management	3	1
94	BA241IU	Hospitality Facilities Management	3	1
95	BA242IU	Quality Management in the Hospitality	3	1
96	BA243IU	Service Management	3	1
97	BA244IU	Supervision in the Hospitality	3	1
98	BA245IU	Revenue Management	3	1
99	BA246IU	Resort Management and Development	3	1
100	BA248IU	Food and Beverage Cost Control	3	1
101	BA255IU	Specialized Internship	3	1
<b>Workshops (Choose 02 of 05 following courses)</b>				
102	BA257IU	Workshop 2 on Finance	2	1
103	BA274IU	Workshop 2 Business Management	2	1
104	BA273IU	Workshop 2 on International Business	2	1
105	BA275IU	Workshop 2 on Marketing	2	1
106	BA281IU	Workshop 2 on Accounting Issues	2	1



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**2. Finance and Banking**

No.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
107	EN007IU	Writing AE1	2	1, 3
108	EN008IU	Listening AE1	2	1, 3
109	EN011IU	Writing AE2	2	1,2,3
110	EN012IU	Speaking AE2	2	1,2,3
111	PT001IU	Physical Training 1	3	1
112	PT002IU	Physical Training 2	3	2
113	BA120IU	Business Computing Skills	3	1,3
114	BA117IU	Introduction to Micro Economics	3	1
115	BA005IU	Financial Accounting	3	1
116	BA282IU	Math for Business	4	1,2
117	BA119IU	Introduction to Macro Economics	3	2
118	BA123IU	Principles of Management	3	2
119	BA010IU	Managerial Accounting	3	2
120	PE008IU	Critical Thinking	3	2,3
121	BA003IU	Principles of Marketing	3	1
122	BA080IU	Statistics for Business	3	1
123	BA167IU	Introduction to Vietnamese Legal System	3	1
124	PE014IU	Environmental Science	3	1
125	BA256IU	Workshop 1	3	2
126	BA191IU	Quantitative Methods for Finance	3	2,3
127	BA016IU	Fundamental of Financial Management	3	2
128	BA134IU	Financial Institutions and Markets	3	2
<b>Elective course: Choose 01 of 02 following courses</b>				
129	BA118IU	Introduction to Psychology	3	1,3
130	BA197IU	Introduction to Sociology	3	1,3
<b>Elective course: Choose 01 of 02 following courses</b>				
131	PE007IU	World Economic Geography	3	2
132	PE010IU	Vietnamese History and Culture	3	2
133	BA130IU	Organizational Behavior	3	
134	BA168IU	Quantitative Methods for Business	3	
135	BA256IU	Workshop 1	3	
<b>2.1 Banking and Financial Investment</b>				
136	BA020IU	Business Ethics	3	1
137	BA081IU	Business Law	3	1
138	BA054IU	Corporate Finance	3	1
139	BA192IU	International Finance	3	1



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140	BA169IU	Management Information Systems	3	1
141	BA213IU	Corporate Governance	3	1
142	BA006IU	Business Communication	3	2
143	BA065IU	Business Analysis & Evaluation	3	2
144	BA138IU	Portfolio Theory and Investment Analysis	3	2
145	BA185IU	Commercial Banking	3	2
146	BA153IU	Internship	3	3
147	BA161IU	Business Research Methods	3	1
148	BA186IU	Investment Banking	3	1
149	BA214IU	Financial Institutions Management	3	1
150	BA257IU	Workshop 2 on Finance	2	2
151	BA170IU	Thesis	12	1
<b>Elective Courses (Choose 04 of 10 following courses)</b>				
152	BA051IU	International Financial Management	3	1,2
153	BA150IU	Special Study	3	1,2
154	BA174IU	Econometrics with Financial Application	3	1,2
155	BA174IU	Econometrics with Financial Application	3	1,2
156	BA189IU	Banking Risk Management	3	1,2
157	BA215IU	Fixed Income Securities	3	1,2
158	BA216IU	Derivatives and Risk management	3	1,2
159	BA217IU	Behavioural Finance	3	1,2
160	BA218IU	Credit Analysis and Lending	3	1,2
161	BA255IU	Specialized Internship	3	1,2
<b>Workshops (Choose 02 of 05 following courses)</b>				
162	BA274IU	Workshop 2 Business Management	2	1,2
163	BA273IU	Workshop 2 on International Business	2	1,2
164	BA275IU	Workshop 2 on Marketing	2	1,2
165	BA272IU	Workshop 2 on Hospitality Management	2	1,2
166	BA281IU	Workshop 2 on Accounting Issues	2	1,2
<b>2.2 Corporate Finance</b>				
167	BA020IU	Business Ethics	3	1
168	BA081IU	Business Law	3	1
169	BA054IU	Corporate Finance	3	1
170	BA192IU	International Finance	3	1
171	BA006IU	Business Communication	3	2
172	BA051IU	International Financial Management	3	2
173	BA065IU	Business Analysis & Evaluation	3	2
174	BA217IU	Behavioural Finance	3	2
175	BA153IU	Internship	3	3
176	BA161IU	Business Research Methods	3	1





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177	BA087IU	Taxation	3	1
178	BA213IU	Corporate Governance	3	1
179	BA257IU	Workshop 2 on Finance	2	1
180	BA170IU	Thesis	12	2
<b>Elective Courses (Choose 01 of 02 following courses)</b>				
181	BA169IU	Management Information Systems	3	1
182	BA219IU	Accounting Information System	3	1
<b>Elective Courses (Choose 04 of 11 following courses)</b>				
183	BA057IU	Auditing	3	1,2
184	BA138IU	Portfolio Theory and Investment Analysis	3	1,2
185	BA150IU	Special Study	3	1,2
186	BA174IU	Econometrics with Financial Application	3	1,2
187	BA214IU	Financial Institutions Management	3	1,2
188	BA216IU	Derivatives and Risk management	3	1,2
189	BA218IU	Credit Analysis and Lending	3	1,2
190	BA220IU	Working Capital Management	3	1,2
191	BA221IU	Personal Finance	3	1,2
192	BA222IU	Management Decisions and Financial Reporting	3	1,2
193	BA255IU	Specialized Internship	3	1,2
<b>Workshops (Choose 02 of 05 following courses)</b>				
194	BA274IU	Workshop 2 Business Management	2	1,2
195	BA273IU	Workshop 2 on International Business	2	1,2
196	BA275IU	Workshop 2 on Finance	2	1,2
197	BA272IU	Workshop 2 on Hospitality Management	2	1,2
198	BA281IU	Workshop 2 on Accounting Issues	2	1,2



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**SCHOOL OF ELECTRICAL ENGINEERING**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	MA001IU	Calculus 1	4	1, 2, 3
2	PH013IU	Physics 1 (Mechanics)	2	1, 2, 3
3	EN007IU	Writing AE1	2	1, 2, 3
4	EN008IU	Listening AE1	2	1, 2, 3
5	EE049IU	Introduction to EE	3	1,2
6	MA003IU	Calculus 2	4	1, 2, 3
7	MA027IU	Applied Linear Algebra	2	1, 2, 3
8	PE008IU	Critical Thinking	3	1, 2, 3
9	PH014IU	Physics 2 (Thermodynamics)	2	1, 2, 3
10	EN011IU	Writing AE2	2	1, 2, 3
11	EN012IU	Speaking AE2	2	1, 2, 3
12	EE051IU	Principles of EE 1	3	1,2
13	EE052IU	Principles of EE 1 Lab	1	1,2
14	EE053IU	Digital Logic Design	3	1,2
15	EE054IU	Digital Logic Design Lab	1	1,2
16	EE057IU	Programming for Engineers	3	1,2
17	EE058IU	Programming for Engineers Lab	1	1,2
18	MA026IU	Probability & Random Process	3	1, 2, 3
19	MA024IU	Differential Equations	4	1, 2, 3
20	PH012IU	Physics 4 (Optics & Atomics)	2	1, 2, 3
21	EE010IU	Electromagnetic Theory	3	1,2
22	EE055IU	Principles of EE 2	3	1,2
23	EE056IU	Principles of EE 2 Lab	1	1,2
24	EE090IU	Electronics Devices	3	1,2
25	EE091IU	Electronics Devices Lab	1	1,2
26	EE088IU	Signals & Systems	3	1,2
27	EE089IU	Signals & Systems Lab	1	1,2
28	EE083IU	Microprocessing Systems	3	1,2
29	EE084IU	Microprocessing Systems Lab	1	1,2
30	EE--IU	Capstone Design 1	2	1
31	EE092IU	Digital Signal Processing	3	1,2
32	EE093IU	Digital Signal Processing Lab	1	1,2
33	EE--IU	Capstone Design 2	2	2
34	EE107IU	Senior Project	2	1,2
35	EE132IU	Engineering Ethics and Professional Skills	2	1

**1. Automation and Control Engineering**

36	EE114IU	Entrepreneurship	3	1, 2
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37	EE097IU	Thesis	10	1, 2
38	EE050IU	Intro to Computer for Engineers	3	1, 2, 3
39	EEAC001IU	Materials Science & Engineering	3	1
40	EEAC021IU	Mathematics for Engineers	4	1
41	EE020IU	Theory of Automatic Control	4	1, 2
42	EEAC004IU	PC Based Control and SCADA System	3	2
43	EEAC005IU	PC Based Control and SCADA System Lab	1	2
44	EEAC006IU	Programmable Logic Control	3	2
45	EEAC007IU	Programmable Logic Control Lab	1	2
46	EEAC008IU	Sensors and Instrumentation	3	2
<b>General Electives (choose 1 course)</b>				
47	IS026IU	Project Management	3	
48	IS033IU	Multi-Criteria Decision Making	3	
49	IS061IU	Information systems in Supply chain	3	
50	IS045IU	Leadership	3	
51	IS019IU	Production Management	3	
52	BA003IU	Principles Of Marketing	3	
53	BA006IU	Business Communication	3	
54	BA020IU	Business Ethics	3	
55	BA197IU	Introduction to Sociology	3	
56	BA130IU	Organizational Behavior	3	
57	BA167IU	Introduction to Vietnamese Legal System	3	
58	BA169IU	Management Information System	3	
59	EE072IU	Computer and Communication Network	3	
60	IT094IU	Information System Management	4	
61	IT063IU	Theoretical Models in Computing	4	
<b>AC Electives (choose at least 4 courses)</b>				
62	EE061IU	Analog Electronics	3	1, 2
	EE062IU	Analog Electronics Laboratory	1	
63	EEAC011IU	Automation Manufacturing System and Technique	3	1, 2
	EEAC012IU	Automation Manufacturing System and Technique Lab	1	
64	EEAC013IU	Power System and Equipment	3	1, 2
65	EEAC014IU	Neuron Network and Fuzzy Logics	3	1, 2
66	EEAC015IU	Robotics	3	1, 2
67	EEAC016IU	Industrial Electronics	3	1, 2
68	EEAC017IU	Digital Control	3	1, 2
69	EEAC009IU	Electric Safety	2	1, 2
70	EEAC010IU	Electric Machine	3	1, 2



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71	EE104IU EE118IU	Embedded Real-time Systems Embedded Real-time Systems Laboratory	3 1	1, 2
72	EE102IU	Stochastic Signal Processing	3	1, 2
73	EE103IU EE122IU	Image Processing and Computer Vision Image Processing and Computer Vision Laboratory	3 1	1, 2
74	EEAC018IU	Advanced Control Engineering	3	1, 2
75	EEAC019IU	System Diagnostic	3	1, 2
76	EE068IU EE115IU	Principles of Communication Principles of Communication Laboratory	3 1	1, 2
77	EE079IU EEAC001IU	Power Electronics Power Electronics Laboratory	3 1	1, 2
78	EE127IU	Machine Learning and Artificial Intelligence	3	1, 2
79	EE133IU	Emerging Engineering Technologies	3	1, 2

**2. Electronics and Telecommunications**

80	EE050IU	Intro to Computer for Engineers	3	1, 2, 3
81	MA023IU	Calculus 3	4	1, 2, 3
82	PH015IU	Physics 3 (Electricity & Magnetism)	3	1, 2, 3
83	PH016IU	Physics 3 Lab	1	1, 2, 3
84	EE068IU	Principles of Com. Systems	3	1, 2
85	EE115IU	Principles of Com. Systems Lab	1	1, 2

**General Electives (choose 1 course)**

86	IS026IU	Project Management	3	
87	IS019IU	Production Management	3	
88	BA003IU	Principles Of Marketing	3	
89	BA006IU	Business Communication	3	
90	BA020IU	Business Ethics	3	
91	BA130IU	Organizational Behavior	3	
92	BA167IU	Introduction to Vietnamese Legal System	3	
93	BA169IU	Management Information System	3	
94	BA116IU	Introduction to Social Science	3	
95	BA118IU	Introduction to Psychology	3	
96	BA117IU	Introduction to Microeconomics	3	
97	BA119IU	Introduction to Macroeconomics	3	
98	BA123IU	Principles of Management	3	
99	BM007IU	Introduction to Biomedical Engineering	4	
100	BM009IU	BME Capstone Design Course	4	
101	BT158IU	Introduction to Bioengineering	3	
102	BTFT201IU	Introduction to Food Science and Technology	3	
103	AR009IU	Aquatic Resources Management	3	



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104	CH013IU	Analytical Chemistry	3+1	
105	IT091IU	Computer Networks	4	
106	IT094IU	Information System Management	4	
107	IT063IU	Theoretical Models in Computing	4	
<b>EE Electives (choose at least 5 courses)</b>				
108	EE061IU	Analog Electronics	3	1, 2
	EE062IU	Analog Electronics Laboratory	1	
109	EE105IU	Antenna and Microwave Engineering	3	1, 2
	EE124IU	Antenna and Microwave Engineering Lab	1	
110	EE075IU	Theory of Automatic Control	3	1, 2
111	EEAC020IU	Theory of Automatic Control	4	1, 2
111	EE063IU	Digital System Design	3	1, 2
	EE117IU	Digital System Design Lab	1	
113	EE066IU	VLSI Design	3	1, 2
	EE121IU	VLSI Design Lab	1	
114	EE079IU	Power Electronics	3	1, 2
	EEAC001IU	Power Electronics Lab	1	
115	EE104IU	Embedded Real-time Systems	3	1, 2
	EE118IU	Embedded Real-time Systems Laboratory	1	
116	EE070IU	Wireless Communications Systems	3	1, 2
	EE116IU	Wireless Communications Systems Lab	1	
117	EE103IU	Image Processing and Computer Vision	3	1, 2
	EE122IU	Image Processing and Computer Vision Laboratory	1	
118	EE123IU	Special Topics in Electrical Engineering	2	1, 2
119	EE074IU	Digital Signal Processing Design	3	1, 2
120	EE094IU	Digital Electronics	3	1, 2
	EE095IU	Digital Electronics Lab	1	
121	EEAC008IU	Sensors and Instrumentation	3	2
122	EE--IU	Machine learning and Artificial Intelligence	3	1, 2
123	EE--IU	Internet of Things (IoT)	3	1, 2
125	EE--IU	Internet of Things Lab (IoT Lab)	1	1, 2
126	EE119IU	Telecommunication Networks	3	1, 2
	EE120IU	Telecommunication Networks Lab	1	
127	EE072IU	Computer and Communication Networks	3	1, 2
128	EE102IU	Stochastic Signal Processing	3	1, 2
129	EE125IU	RF Circuit Design	3	1, 2
	EE126IU	RF Circuit Design Lab	1	
130	EE133IU	Emerging Engineering Technologies	3	1, 2



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**SCHOOL OF BIOTECHNOLOGY**

NO.	COURSE ID	COURSE NAME	CREDIT			OFFERED IN SEMESTER
			Theory	Practice	Total	
1	MA001IU	Calculus 1	4	0	4	1, 2, 3
2	PH013IU	Physics 1	2	0	2	1, 2, 3
3	BT155IU	Biology	3	1	4	1, 2, 3
4	CH011IU	Chemistry for Engineers	3	0	3	1, 2, 3
5	CH012IU	Chemistry Laboratory	0	1	1	1, 2, 3
6	EN007IU, EN008IU	Academic English 1	4	0	4	1, 2, 3
7	MA002IU	Calculus 2	4	0	4	1, 2, 3
8	PH014IU	Physics 2	2	0	2	1, 2
9	EN011IU, EN012IU	Academic English 2	4	0	4	1, 2, 3
10	PE008IU	Critical Thinking	3	0	3	1, 2, 3
11	PE014IU	Environmental Science	3	0	3	1, 2, 3
12	BT152IU	Biostatistics	2	1	3	1, 2
13	BT156IU	Biochemistry	3	1	4	1, 2

**1. Biotechnology**

14	BT150IU	Introduction to Biotechnology	2	0	2	1, 2
15	BT162IU	Genetics	3	1	4	1, 2
16	CH009IU	Organic Chemistry	3	0	3	1, 2
17	BT010IU	Plant Physiology	3	0	3	1, 2
18	CH013IU	Analytical Chemistry	3	1	4	1, 2
19	BT164IU	Microbiology	3	1	4	1, 2
20	BT220IU	Cell Biology	3	0	3	1, 2
21	BT163IU	Human and Animal Physiology	3	0	3	1, 2
22	BT168IU	Molecular Biotechnology	3	1	4	1, 2
23	BT205IU	Immunology	3	1	4	1, 2
24	BT217IU	Molecular Genetics	3	0	3	1, 2
25	BT203IU	Bioinformatics	3	1	3	1, 2
26	BT200IU	Internship	0	2	2	3
27	BT216IU	Experimental Design	3	0	3	1, 2



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28	BT179IU	Thesis	0	12	12	1, 2
<b>Free Elective (min 3 credits)</b>						
29	IS050IU	Project Management	3	0	3	
30	BA115IU	Introduction to Business Administration	3	0	3	
31	BA006IU	Business Communications	3	0	3	
<b>Foundation Elective (min 9 credits)</b>						
32	BT218IU	Plant Science	3	0	3	1, 2
33	BT220IU	Marine Biology	3	0	3	1, 2
34	BT200IU	Scientific Writing Workshop	2	0	2	1, 2
35	BT207IU	Human Pharmacology	3	0	3	1, 2
36	BT172IU	Protein Biotechnology	3	1	4	1, 2
37	BT305IU	Pharmacology genomics	3	0	3	1, 2
<b>Professional Elective (min 12 credits)</b>						
38	BT211IU	Medical Genetics	3	1	4	1, 2
39	BT214IU	Crop Biotechnology	3	1	4	1
40	BT201IU	Techniques in Plant Biotechnology	3	1	4	1,2
41	BT215IU	Algal Biotechnology	3	1	4	
42	BT177IU	Marine Biotechnology	3	1	4	
43	BT208IU	Environmental Biotechnology	3	1	4	
44	BT185IU	Pharmaceutical Biotechnology	3	1	4	2
45	BT184IU	Molecular Diagnostics	3	1	4	2
46	BT174IU	Animal Biotechnology	3	1	4	1, 2
47	BT212IU	Stem Cell Biology	3	1	4	1
48	BT213IU	Medical Microbiology	3	1	4	1

**2. Food Technology**

49	FT201IU	Introduction to Food Science and Technology	3	0	3	1, 2
50	CH009IU	Organic Chemistry	3	0	3	1, 2
51	FT203IU	Food Engineering Principles	4	0	4	1, 2
52	FT202IU	Food Chemistry	3	0	3	1, 2
53	FT302IU	Food Analysis	3	1	4	1, 2



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54	FT204IU	Food Microbiology	3	1	4	1, 2
55	FT205IU	Nutrition and Functional Foods	3	0	3	1, 2
56	FT206IU	Enzyme and Food Fermentation	2	1	3	1, 2
57	FT301IU	Food Unit Operations 1	3	1	4	1, 2
58	BTFT309IU	Food Laws and Standards	3	0	3	1, 2
59	FT303IU	Toxicology and Food Safety	3	0	3	1, 2
60	FT306IU	Food Packaging and Food Additives	3	0	3	1, 2
61	FT304IU	Food Unit Operations 2	3	1	4	1, 2
62	FT305IU	Food Quality Assurance System	3	0	3	1, 2
63	FT310IU	Food Microbiology Analysis	2	1	3	1, 2
64	FT407IU	Food Sensory Analysis	2	1	3	1, 2
65	FT408IU	Food Product Development and Marketing	2	1	3	1, 2
66	BT200IU	Internship	0	2	2	3
67	BT216IU	Experimental Design	3	0	3	1, 2
68	BT179IU	Thesis	0	12	12	1, 2
<b>Elective courses (at least 8 credits)</b>						
69	IS050IU	Project Management	3	0	3	
70	BA115IU	Introduction to Business Administration	3	0	3	
71	BA006IU	Business Communications	3	0	3	
72	BA164IU	Production and Operation Management	3	0	3	
73	BA022IU	Logistics and Supply Chain Management	3	0	3	
<b>Professional Elective (at least 21 credits)</b>						
74	FT401IU	Dairy Product Technology	3	1	4	1
75	FT402IU	Beverage Technology	3	1	4	2





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76	FT403IU	Cereal Product Technology	3	1	4	1
77	FT404IU	Aquatic Product Technology	3	1	4	1
78	FT405IU	Meat Product Technology	3	1	4	2
79	FT406IU	Technology of Coffee, Tea and Cacao	3	1	4	2

**3. Fisheries Management (Aquascience) Program**

80	AR101IU	Aquatic Ecology	3	0	3	2
81	AR102IU	Introduction to ARM	3	0	3	1
82	BT162IU	Genetics	3	1	4	1, 2
83	AR206IU	Fish Laboratory and Water Quality Analysis	1	3	4	2
84	AR208IU	Fish Classification	2	0	2	1
85	BT220IU	Marine Biology	3	0	3	2
86	BT150IU	Introduction to Biotechnology	2	0	2	1, 2
87	AR205IU	Fish Physiology	3	1	4	2
88	AR201IU	Aquatic Microbiology	3	1	4	2
89	AR207IU	Field Course	1	0	1	3
90	BA154IU	Entrepreneurship and Small Business Management	3	0	3	
91	AR311IU	Environmental Impact Assessment	2	1	3	1
92	IS150IU	Project Management	3	0	3	
93	BT216IU	Scientific Writing Workshop	2	0	2	1, 2
<b>Elective courses (at least 9 credits)</b>						
94	BT168IU	Molecular Biotechnology	3	1	4	1, 2
95	AR202IU	Global Climate Changes	3	0	3	1
96	BA003IU	Principal of Marketing	3	0	3	
97	BA115IU	Introduction to Business Administration	3	0	3	
98	BA006IU	Business Communications	3	0	3	
<b>Professional Elective (at least 21 credits)</b>						
99	BT177IU	Marine Biotechnology	3	1	4	2



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100	AR308IU	Fish Nutrition and Feed Formulation	3	1	4	1
101	AR314IU	Fish Breeding	2	2	4	2
102	AR310IU	Fish Diseases	2	1	3	1
103	BA164IU	Production and Operations Management	3	0	3	
104	BA032IU	Sales Management	3	0	3	
105	IS056IU	Introduction to Logistic and Supply Chain Management	3	0	3	
106	AR306IU	Integrated Coastal Zone Management	3	0	3	2
107	AR313IU	Aquariums & Ornamental Fish	2	1	3	2

**4. Biochemistry**

108	BC101IU	Inorganic Chemistry	3	1	4	1, 2
109	BC102IU	Introduction to Biochemistry	2	0	2	1, 2
110	BC202IU	Fundamentals of Analytical Chemistry	3	0	3	2
111	BT162IU	Genetics	3	1	4	1, 2
112	BT200IU	Scientific Writing Workshop	3	1	4	1, 2
113	BC201IU	Organic Chemistry 1	3	0	3	1, 2
114	BC206IU	Organic Chemistry 2	3	0	3	1, 2
115	BC207IU	Organic Chemistry Lab	0	2	2	1, 2
116	BC209IU	Biochemistry 1	3	0	3	1, 2
117	BC210IU	Biochemistry 2	3	2	5	1, 2
118	BC204IU	Instrumental Analysis	3	1	4	1, 2
119	BT405IU	Physical Chemistry	3	0	3	1, 2
120	BT164IU	Microbiology	3	1	4	1, 2
121	BT203IU	Bioinformatics	3	1	4	1, 2
122	BC302IU	Biophysical Chemistry	3	1	3	2
123	BC304IU	Biopharmaceutics	3	0	3	1
124	BC301IU	Enzymology	3	1	4	2
125	BC405IU	Fermentation Technology	3	1	4	2
126	BT205IU	Immunology	3	1	4	1, 2
127	BC403IU	Clinical Biochemistry	3	1	4	2
128	BT200IU	Internship	0	2	2	3



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129	BT179IU	Thesis	0	12	12	1, 2
<b>Elective Courses (min 6 credits)</b>						
130	IS050IU	Project Management	3	0	3	
131	BA164IU	Production and Operation Management	3	0	3	
132	BA022IU	Logistics and Supply Chain Management	3	0	3	
133	BA003IU	Principles of Marketing	3	0	3	
<b>Professional Elective Courses (min 12 credits)</b>						
134	BC311IU	Nutritional Biochemistry	3	1	4	2
135	BC402IU	Nutrition Therapy	3	1	4	1
136	BC406IU	Clinical Nutrition	3	1	4	2
137	BC408IU	Drug Development	3	0	3	1
138	BC409IU	Cosmetics & Cosmeceuticals 1	3	0	3	1
139	BC410IU	Cosmetics & Cosmeceuticals 2	3	0	3	1
140	BC411IU	Cosmetics & Cosmeceuticals Lab	0	2	2	2
141	BC412IU	Nutraceuticals	3	1	4	1



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**SCHOOL OF INFORMATION TECHNOLOGY**

**1. Bachelor of Science in Data Science**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	MA001IU	Calculus 1	4	1
2	PH013IU	Physics 1	2	1
3	CH011IU	Chemistry	3	1
4	CH012IU	Chemistry Lab	1	1
5	IT135IU	Introduction to Data Science	3	1
6	EN008IU & EN007IU	Academic English 1	4	1
7	PT001IU	Physical Training 1	3	1
8	MA003IU	Calculus 2	4	2
9	PH014IU	Physics 2	2	2
10	IT136IU	Regression Analysis	4	2
11	IT151IU	Statistical Methods	3	2
12	IT149IU	Fundamentals of Programming	4	2
13	EN011IU & EN012IU	Academic English 2	4	2
14	PT002IU	Physical Training 2	3	2
15	MA023IU	Calculus 3	4	1
16	PE014IU	Environmental Science	3	1
17	IT069IU	Object-Oriented Programming	4	1
18	IT137IU	Data Analysis	4	1
19	IT138IU	Data Science and Data Visualization	4	2
20	IT079IU	Principles of Database Management	4	2
21	IT090IU	Object-Oriented Analysis and Design	4	2
22	IT013IU	Data Structures and Algorithms	4	2
23	MA026IU	Probability, Statistic & Random Process	3	1
24	IT139IU	Scalable and Distributed Computing	4	1
25	IT140IU	Fundamental Concepts of Data Security	4	1
26	PE008IU	Critical Thinking	3	1
27	IT132IU	Introduction to Data mining	4	2
28	IT142IU	Analytics for Observational Data	4	2
29		Elective	4	2
30	IT097IU	Introduction to Artificial Intelligence	4	2



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31	IT143IU	Fundamentals of Big Data Technology	4	1
<b>Elective Courses</b>				
32	IT144IU	Business Process Analysis	4	
33	IS021IU	Deterministic model in Operations Research	4	
34	IT145IU	Decision Support Systems	4	
35	IT146IU	Theory of Networks	4	
36	IT148IU	Experimental Design	4	
37	IT141IU	Big Data Applications: Machine Learning at Scale	4	
38	IT150IU	Blockchain	4	
39	IT152IU	Data mining for IoT	4	
40	IT056IU	Software Project Management	4	
41	IT094IU	Information System Management	4	
42	IT147IU	Mobile Cloud Computing	4	
43	IT120IU	Entrepreneurship	3	
44	ISME105IU	Optimization	3	

**2. Bachelor of Engineering in Computer Science**

45	CH011IU	Chemistry for Engineers	3	1
46	CH012IU	Chemistry Laboratory	1	1
47	EN007IU	Writing AE1	2	1
48	EN008IU	Listening AE1	2	1
49	IT064IU	Introduction to Computing	3	1
50	MA001IU	Calculus 1	4	1
51	PH013IU	Physics 1	2	1
52	PH014IU	Physics 2	2	1
53	PT001IU	Physical Training 1	3	1
54	EN011IU	Writing AE2	2	2
55	EN012IU	Speaking AE2	2	2
56	IT116IU	C/C++ Programing	4	2
57	MA003IU	Calculus 2	4	2
58	PE008IU	Critical Thinking	3	2
59	PH015IU	Physics 3	3	2
60	PH016IU	Physics 3 Laboratory	1	2
61	PT002IU	Physical Training 2	3	2
62	IT131IU	Theoretical Models in Computing	4	1
63	IT067IU	Digital Logic Design	3	1
64	IT069IU	Object-Oriented Programming	4	1
65	IT099IU	Digital Logic Design Laboratory	1	1
66	IT153IU	Discrete Mathematics	3	1
67	MA023IU or MA024IU	Calculus 3 or Differential Equations	4	1



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68	PH012IU	Physics 4	2	1
69	IT013IU	Algorithms & Data Structures	4	2
70	IT079IU	Principles of Database Management	4	2
71	IT089IU	Computer Architecture	4	2
72	IT090IU	Object-Oriented Analysis and Design	4	2
73	IT076IU	Software Engineering	4	1
74	IT017IU	Operating Systems	4	1
75	IT091IU	Computer Networks	4	1
76	MA026IU	Probability, Statistic & Random Process	3	1
77	IT092IU	Principles of Programming Languages	4	2
78	IT093IU	Web Application Development	4	2
79	IT097IU	Introduction to Artificial Intelligence	4	2
80		Elective	4	2
81	IT120IU	Entrepreneurship	3	1

**Elective Courses**

82	IT024IU	Computer Graphics	4	
83	IT056IU	Software Project Management	4	
84	IT094IU	Information System Management	4	
85	IT096IU	Net-Centric Programming	4	
86	IT133IU	Mobile Application Development	4	
87	IT134IU	Internet of Things	4	
88	IT132IU	Introduction to Data Mining	4	
89	IT114IU	Software Architecture	4	
90	IT130IU	Digital Image Processing	4	

**3. Bachelor of Engineering of Information Technology**

91	CH011IU	Chemistry for Engineers	3	1
92	CH012IU	Chemistry Laboratory	1	1
93	EN007IU	Writing AE1	2	1
94	EN008IU	Listening AE1	2	1
95	IT064IU	Introduction to Computing	3	1
96	MA001IU	Calculus 1	4	1
97	PH013IU	Physics 1	2	1
98	PH014IU	Physics 2	2	1
99	PT001IU	Physical Training 1	3	1
100	EN011IU	Writing AE2	2	2
101	EN012IU	Speaking AE2	2	2
102	IT116IU	C/C++ Programing	4	2
103	MA003IU	Calculus 2	4	2
104	PE008IU	Critical Thinking	3	2
105	PH015IU	Physics 3	3	2



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106	PH016IU	Physics 3 Laboratory	1	2
107	PT002IU	Physical Training 2	3	2
108	IT131IU	Theoretical Models in Computing	4	1
109	IT067IU	Digital Logic Design	3	1
110	IT069IU	Object-Oriented Programming	4	1
111	IT099IU	Digital Logic Design Laboratory	1	1
112	IT153IU	Discrete Mathematics	3	1
113	MA023IU or MA024IU	Calculus 3 or Differential Equations	4	1
114	PH012IU	Physics 4	2	1
115	IT013IU	Algorithms & Data Structures	4	2
116	IT079IU	Principles of Database Management	4	2
117	IT089IU	Computer Architecture	4	2
118	IT090IU	Object-Oriented Analysis and Design	4	2
119	IT076IU	Software Engineering	4	1
120	IT017IU	Operating Systems	4	1
121	IT091IU	Computer Networks	4	1
122	MA026IU	Probability, Statistic & Random Process	3	1
123	IT096IU	Net-Centric Programming	4	2
124	IT093IU	Web Application Development	4	2
125	IT094IU	Information System Management	4	2
126		Elective	4	2
127	IT120IU	Entrepreneurship	3	1
<b>Elective Courses</b>				
128	IT045IU	Network Design and Evaluation	4	
129	IT056IU	Software Project Management	4	
130	IT112IU	Introduction to Distributed Computing	4	
131	IT117IU	System and Network Security	4	
132	IT122IU	Introduction to Wireless Network	4	
133	IT124IU	Network Management and Protocols	4	
134	IT133IU	Mobile Application Development	4	
135	IT132IU	Introduction to Data Mining	4	
136	IT134IU	Internet of Things	4	
137	IT125IU	System & Network Administration	4	
138	IT130IU	Digital Image Processing	4	



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**SCHOOL OF INDUSTRIAL ENGINEERING AND MANAGEMENT**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	IS033IU	Multi-Criteria Decision Making	3	1
2	IS041IU	Lean Production	3	1
3	IS032IU	Facility Layout	3	1
4	IS024IU	Probabilistic Models in OR	3	1
5	IS019IU	Production Management	3	1
6	IS004IU	Engineering Probability & Statistics	4	1
7	IS040IU	Management Information System	3	1
8	IS025IU	Quality Management	3	1
9	IS023IU	Inventory Management	3	1
10	IS059IU	Materials Handling Systems	3	1
11	IS055IU	Principles Logistics and Supply Chain Management	3	1
12	IS067IU	International Transportation & Logistics	3	1
13	IS027IU	Scheduling & Sequencing	3	2
14	IS078IU	Logistics engineering & supply chain design	3	2
15	IS081IU	Deterministic models in OR	4	2
16	IS017IU	Work design & Ergonomics + Lab	4	2
17	IS057IU	Warehouse engineering management	3	2





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**SCHOOL OF BIOMEDICAL ENGINEERING**

NO	COURSE ID	COURSE NAME	CREDIT	Offered in Semester (Please input: 1, 2 or 3)
1	MA001IU	Calculus 1	4	
2	MA003IU	Calculus 2*	4	
3	MA023IU	Calculus 3*	4	
4	MA024IU	Differential Equation*	4	
5	EN007IU, EN008IU	Academic English 1	4	
6	EN011IU, EN012IU	Academic English 2	4	
7	PE008IU	Critical Thinking	3	
8	BM008IU	Bioethics	3	1, 2
9	PH013IU	Physics I (Mechanics)	2	
10	PH014IU	Physics II (Thermodynamics)	2	
11	PH012IU	Physics IV (Quantum + Optics)	2	
12	CH011IU	Chemistry for Engineers	3	
13	CH012IU	Chemistry Laboratory	1	
14	CH014IU	Chemistry for BME*	3	1, 2
15	BM090IU	Biology for BME	4	1, 2
16	EE051IU	Principles of EE I	3	
17	EE052IU	Principles of EE I Laboratory	1	
18	BM030IU	Machine Design	3	1, 2
19	BM064IU	Applied Informatics	4	
20	BM005IU	Statistics for Health Science*	3	1, 2
21	BM091IU	Human Anatomy and Physiology*	3	1, 2
22	BM007IU	Introduction to Biomedical Engineering	4	1, 2
23	BM082IU	Biomaterials *	4	1, 2
24	BM009IU	BME Capstone Design Course*	4	1, 2
25	BM011IU	Engineering Challenges in Medicine I	3	1, 2
26	BM013IU	Entrepreneurship in BME	3	1, 2

**1. Medical Instrumentation Orientation**

27	BM060IU	Digital Systems*	3	1
28	BM061IU	Digital Systems Lab*	1	
29	BM062IU	Micro-electronic Devices*	3	



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30	BM063IU	Micro-electronic Devices Laboratory*	3	
31	BM089IU	Electronic Devices for Biomedical Design*	4	2
32	BM033IU	Information Technology in the Health Care System*	3	NA
33	BM070IU	Information Technology in the Health Care System Lab*	1	NA
34	BM075IU	Biomedical Photonics*	3	1
35	BM076IU	Biomedical Photonics Lab*	1	1

**2. Biomedical Signal and Image Processing Orientation**

36	BM010IU	Biosignal Processing	4	
37	BM058IU	Biomedical Image Processing	4	NA
38	BM072IU	Computational Model in Medicine*	4	NA
39	BM073IU	Medical Imaging*	4	NA
40	BM074IU	Brain - Computer Interface*	4	1 (tentative)
41	BM071IU	Computer Aided Diagnosis*	4	1 (tentative)

**3. Pharmaceutical Engineering Orientation**

42	BM077IU	Pharmaceutical Engineering 1*	4	1
43	BM078IU	Pharmaceutical Engineering 2*	4	2
44	BM079IU	Principle of Pharmacokinetics*	4	tentative
45	BM080IU	Nanotechnology for Drug Delivery Systems*	4	tentative
46	BM081IU	Drug Delivery Systems*	4	tentative

**4. Regenerative Medicine Orientation**

47	BM082IU	Biomaterials	4	1, 2
48	BM083IU	Applications of Biomaterials in Regenerative Medicine	4	tentative
49	BM084IU	Biocompatibility and Biodegradation of Biomaterials	4	tentative
50	BM085IU	Characterization and Properties of Biomaterials	4	tentative
51	BM086IU	Methods and Process in Fabrication of Scaffold	4	tentative
52	BM092IU	Cell/Tissue – Biomaterial interaction*	4	tentative
53	BM093IU	Tissue engineering I*	4	tentative



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54	BM012IU	Engineering Challenges in Medicine II	3	tentative
<b>General Technical Elective Course (can be taken for any orientation)</b>				
55	BM094IU	Principle of clinical tests and instrumentation*	4	2
56	BM012IU	Engineering Challenges in Medicine II	3	tentative
<b>Design and Research cluster</b>				
57	BM050IU	Lab 1A - Biomedical Instrumentation	1	1, 2
58	BM067IU	Lab 1B – In vitro Studies	1	1, 2
59	BM052IU	Design 2A - Electronic Design	1	1, 2
60	BM017IU	Design 2B - Medical Instrumentation Design	1	1, 2
61	BM068IU	Project 1	1	1, 2
62	BM069IU	Project 2	1	1, 2
63	BM020IU	Internship	3	3
64	BM003IU	Pre-Thesis	1	1, 2
65	BM004IU	Thesis	10	1, 2



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**DEPARTMENT OF CIVIL ENGINEERING**

NO	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	EN007IU	Writing AE1	3	2
2	EN008IU	Listening AE1	3	2
3	EN011IU	Writing AE2	3	2
4	EN012IU	Speaking AE2	3	2
5	MA001IU	Calculus 1	3	4
6	PH013IU	Physics 1	3	2
7	PH014IU	Physics 2	3	2
8	CH011IU	Chemistry for Engineer	3	3
9	CH012IU	Chemistry Laboratory	3	1
10	CE100IU	Introduction to Civil Engineering	3	1
11	MA003IU	Calculus 2	3	4
12	CE101IU	Engineering Mechanics –Statics	3	3
13	CE102IU	Introduction to Computing for Civil Engineers	3	3
14	PH015IU	Physics 3	3	3
15	PH017IU	Physics 3 Laboratory	3	1
16	MA024IU	Differential Equations	3	4
17	CE204IU	Computer-Aided Design and Drafting (CADD)	3	3
18	CE205IU	Practice CADD	3	1
19	CE201IU	Mechanics of Materials 1	3	2
20	CE208IU	Mechanics of Materials 2	3	2
21	CE202IU	Mechanics of Materials Laboratory	3	1
22	CE203IU	Engineering Mechanics – Dynamics	3	3
23	CE206IU	Fluid Mechanics	3	2
24	CE207IU	Fluid Mechanics Laboratory	3	1
25	CE213IU	Computational Methods for Civil Engineering	3	3
26	CE209IU	Structural Analysis 1	3	2
27	CE301IU	Structural Analysis 2	3	3
28	CE210IU	Construction Materials	3	3
29	CE211IU	Hydrology- Hydraulics	3	3
30	PE008IU	Critical Thinking	3	3
31	CE204IU	Civil Architecture	3	2
32	CE302IU	Soil Mechanics	3	3
33	CE303IU	Soil Mechanics Laboratory	3	1
34	CE304IU	Reinforced Concrete 1	3	3
35	CE310IU	Reinforced Concrete 2	3	3



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36	CE305IU	Steel Structures	3	3
37	CE306IU	Water Supply and Sewerage	3	3
38	CE307IU	Surveying	3	2
39	CE308IU	Surveying Practice	3	1
40	CE309IU	Foundation Engineering	3	3
41	CE311IU	Construction Engineering	3	3
42	CE312IU	Steel Structure Project	3	1
43	CE313IU	Reinforced Concrete Project	3	3
44	CE401IU	Construction Management	3	3
45	CE402IU	Foundation Project	3	1
46	CE403IU	Construction Project	3	1
<b>General Electives (choose at least 2 courses)</b>				
47	BA003IU	Principles of Marketing	3	3
48	BA006IU	Business Communication	3	3
49	BA020IU	Business Ethics	3	3
50	BA116IU	Introduction to Social Science	3	3
51	BA118IU	Introduction to Psychology	3	3
52	BA117IU	Introduction to Microeconomics	3	3
53	BA119IU	Introduction to Macroeconomics	3	3
54	BA123IU	Principles of Management	3	3
55	BA130IU	Organizational Behavior	3	3
56	BA167IU	Introduction to Vietnamese Legal System	3	3
57	BA169IU	Management Information Systems	3	3
58	BA120IU	Business Computing Skills	3	3
59	IS019IU	Production Management	3	3
60	IS026IU	Project Management	3	3
61	IT063IU	Theoretical Models in Computing	3	4
62	IT091IU	Computer Networks	3	4
63	IT094IU	Information System Management	3	4
<b>Electives (choose at least 3 courses)</b>				
64	CE411IU	Bridges Engineering	3	3
65	CE412IU	Dynamics of Structures	3	3
66	CE413IU	Hydraulics Structures	3	3
67	CE414IU	Tall Buildings	3	3
68	CE415IU	Construction Project Management	3	3
69	CE416IU	Water and Sanitary for Buildings	3	3
70	CE417IU	Steel Design 2	3	3



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**DEPARTMENT OF ENGLISH**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERE IN SEMESTER
1	MA030IU	Statistics for Social Sciences	3	1, 2*
2	PE008IU	Critical Thinking	3	1*, 3
3	EL001IU	Reading 1	3	1, 2
4	EL002IU	Writing 1	3	1, 2
5	EL003IU	Listening 1	3	1, 2
6	EL004IU	Speaking 1	3	1, 2
7	EL005IU	Advanced Grammar	2	1, 2*
8	EL006IU	Presentation Skills	2	1*, 2
9	EL007IU	Reading 2	3	1, 2
10	EL008IU	Writing 2	3	1, 2
11	EL009IU	Listening 2	3	1, 2
12	EL010IU	Speaking 2	3	1, 2
13	EL011IU	Research Writing	3	1, 2*
14	EL012IU	Research Methodology	3	1*, 2
15	EL013IU	Introduction to Linguistics	3	1, 2*
16	EL014IU	Introduction to English Teaching Methodology	3	1*, 2
17	EL015IU	Introduction to Literature	3	1*, 2
18	EL016IU	Introduction to Translation	3	1, 2*
19	EL017IU	Language and Culture	3	1*, 2
20	EL018IU	Cross-cultural Communication	3	1, 2*
21	EL019IU	British Civilization	2	1
22	EL020IU	American Civilization	2	1*, 2
23	EL021IU	Global English	3	1*, 2
24	EL022IU	Phonetics and Phonology	3	1*, 2
25	EL023IU	Morphology	3	1*, 2
26	EL024IU	Syntax	3	1*, 2
27	EL025IU	Semantics	3	1*, 2
28	EL026IU	Translation 1 (English - Vietnamese)	3	1, 2*
29	EL027IU	Translation 2 (Vietnamese - English)	3	1, 2*

**1. Linguistics Electives**

30	EL028IU	Functional Grammar	3	1*, 2*
31	EL029IU	Pragmatics	3	1*, 2*
32	EL030IU	Discourse Analysis	3	1*, 2*
33	EL031IU	Sociolinguistics	3	1*, 2*
34	EL032IU	Comparative Linguistics	3	1*, 2*



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NO.	COURSE ID	COURSE NAME	CREDIT	OFFERE IN SEMESTER
35	EL033IU	ELT methods and techniques – Teaching Listening & Speaking	3	1*, 2*
36	EL034IU	ELT methods and techniques – Teaching Reading & Writing	3	1*, 2*
37	EL035IU	ELT methods and techniques – Teaching Vocabulary & Grammar	3	1*, 2*
38	EL041IU	Advanced Translation	3	1*, 2*
39	EL039IU	Interpreting 1	3	1*, 2*
40	BA115IU	Introduction to Business Administration	3	1*, 2*
41	BA198IU	Introduction to Hospitality Industry	3	1*, 2*

**2. Language Teaching Electives**

42	EL033IU	ELT methods and techniques – Teaching Listening & Speaking	3	1*, 2*
43	EL034IU	ELT methods and techniques – Teaching Reading & Writing	3	1*, 2*
44	EL035IU	ELT methods and techniques – Teaching Vocabulary & Grammar	3	1*, 2*
45	EL036IU	Language Assessment and Testing	3	1*, 2*
46	EL037IU	Technology Enhanced Language Learning (TELL)	3	1*, 2*
47	EL038IU	Teaching English to Young Learners	3	1*, 2*
48	EL031IU	Sociolinguistics	3	1*, 2*
49	EL030IU	Discourse Analysis	3	1*, 2*
50	EL041IU	Advanced Translation	3	1*, 2*
51	EL039IU	Interpreting 1	3	1*, 2*
52	BA115IU	Introduction to Business Administration	3	1*, 2*
53	BA198IU	Introduction to Hospitality Industry	3	1*, 2*

**3. Translation-Interpreting Electives**

54	EL039IU	Interpreting 1	3	1*, 2*
55	EL040IU	Interpreting 2	3	1*, 2*
56	EL041IU	Advanced Translation	3	1*, 2*
57	EL042IU	Translation in Business	3	1*, 2*
58	EL043IU	Translation in Journalism	3	1*, 2*
59	EL031IU	Sociolinguistics	3	1*, 2*
60	EL030IU	Discourse Analysis	3	1*, 2*
61	EL033IU	ELT methods and techniques – Teaching Listening & Speaking	3	1*, 2*



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NO.	COURSE ID	COURSE NAME	CREDIT	OFFERE IN SEMESTER
62	EL034IU	ELT methods and techniques – Teaching Reading & Writing	3	1*, 2*
63	EL035IU	ELT methods and techniques – Teaching Vocabulary & Grammar	3	1*, 2*
64	BA115IU	Introduction to Business Administration	3	1*, 2*
65	BA198IU	Introduction to Hospitality Industry	3	1*, 2*
<b>Internship and Thesis</b>				
66	EL044IU	Internship 1	2	2, 3*
67	EL045IU	Internship 2	4	1, 3*
68	EL046IU	Thesis	10	1*, 2*

Notes: (\*) subject to change





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**DEPARTMENT OF PHYSICS**

NO.	COURSE ID	COURSE NAME	CREDIT				OFFERED IN SEMESTER
			Lectures	Assignments	Lab	Total	
1	MA001IU	Calculus 1	3	1	0	4	1, 2
2	MA003IU	Calculus 2	3	1	0	4	2, 3
3	EE057IU	Programming for engineers	3	0	0	3	2
4	EE058IU	Programming for engineers Laboratory	1	0	0	1	2
5	PH019IU	General Physics 1	4	0	0	4	1, 2
6	PH020IU	General Physics 1 Laboratory	2	0	0	2	1, 2, 3
7	PH021IU	General Physics 2	3	0	0	3	1, 2, 3
8	PH022IU	General Physics 2 Laboratory	0	0	1	1	1, 2, 3
9	PH023IU	General Physics 3	2	0	0	2	1, 2, 3
10	PH024IU	General Physics 3 Laboratory	0	0	1	1	1, 2, 3
11	EE050IU	Introduction to computer for engineers	3	0	0	3	
12	PH025IU	Mathematics for engineers	4	0	0	4	1
13	PH026IU	Differential equations	1	1	0	2	1
14	PH030IU	Probability and statistics for engineers	3	0	0	3	1, 2
15	PE008IU	Critical thinking	3	0	0	3	
16	ISE026IU	Project Management	3	0	0	3	
17	EN008IU	Academic English 1	4	0	0	4	
18	EN011IU	Academic English 2	4	0	0	4	
19	PH018IU	Introduction to Space Engineering	2	0	0	2	1, 2
20	PH027IU	Earth Observation and the Environment	3	0	0	3	1



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21	PH029IU	Introduction to Relativity and Modern Physics	3	0	0	3	1, 2
22	PH031IU	Optics and Photonics	2	0	0	2	1, 2
23	PH032IU	Introduction to Signals and Systems	3	0	0	3	
24	PH033IU	Signals and Systems Laboratory	0	0	1	1	
25	PH035IU	Introduction to Space Communications	3	0	0	3	1, 2
26	PH036IU	Remote Sensing	3	0	0	3	1
27	PH037IU	Space Environment	3	0	0	3	1
28	PH040IU	Satellite Technology	3	0	0	3	2
29	PH053IU	Big Data Analysis for Remote Sensing	3	0	0	3	2
30	PH054IU	Big Data Analysis for Remote Sensing Laboratory	0	0	1	1	2
31	PH051IU	Geolocation App Development for iOS	3	0	0	3	1
32	PH052IU	Geolocation App Development for iOS Laboratory	0	0	1	1	1
33	EE092	Digital Signal Processing	3	0	0	3	
34	EE093	Digital Signal Processing Laboratory	0	0	1	1	
35	PH038IU	Introduction to Digital Image Processing	2	0	0	2	1
36	PH039IU	Digital Image Processing Laboratory	0	0	1	1	1
37	PH041IU	Digital Image Processing	3	0	0	3	2
38	EE105	Antenna and Microwave Engineering	3	0	0	3	



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39	EE124	Antenna and Microwave Engineering Laboratory	0	0	1	1	
40	PH042IU	Research Project	0	4	0	4	
41	PH043IU	Satellite Signal And Image Processing Laboratory	1	0	2	3	2
<b>Elective Courses (min 6 credits)</b>							
42	PH045IU	Fundamental of Surveying	3	0	0	3	1
43	PH046IU	Geographic Information Systems (GIS) and Spatial Analysis	3	0	0	3	1
44	PH047IU	Navigation Systems	3	0	0	3	1
45	PH048IU	Radio Astrophysics	3	0	0	3	1
46	PH049IU	Advanced Remote Sensing	3	0	0	3	1



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**DEPARTMENT OF ENVIRONMENTAL ENGINEERING**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	CH011IU	Chemistry for Engineers	3	1
2	EN007IU	Writing AE1	2	1
3	EN008IU	Listening AE1	2	1
4	MA001IU	Calculus 1	4	1
5	PH013IU	Physics 1	2	1
6	PH014IU	Physics 2	2	2
7	EN011IU	Writing AE2	2	2
8	EN012IU	Speaking AE2	2	2
9	ENEE2001IU	Introduction to Environmental Engineering	3	2
10	ENEE1003IU	Fundamental of Analytical Chemistry	3	2
11	PE008IU	Critical Thinking	3	2
12	ENEE1005IU	Biochemistry	3	1
13	ENEE2002IU	Environmental Chemistry 1	2	1
14	ENEE2010IU	Environmental Chemistry 1 Lab	2	1
15	ENEE2003IU	Mechanics of Materials	3	1
16	ENEE2004IU	Chemical Reaction Engineering	3	1
17	ENEE1001IU	Engineering Drawing	3	1
18	ENEE1002IU	Hydraulics for Environmental Engineering	4	2
19	ENEE2005IU	Environmental Chemistry 2	2	2
20	ENEE2011IU	Environmental Chemistry 2 Lab	2	2
21	ENEE2006IU	Basic Theory of Environmental Structures	4	2
22	ENEE2007IU	Physical and Chemical Processes for Environmental Engineering	3	2
23	ENEE2009IU	Biological Processes for Environmental Engineering	3	2
24	ENEE2008IU	Environmental Ecology	3	1
25	ENEE1006IU	Applied Statistics	3	1
26	ENEE1007IU	Experimental Design and Data Analysis	3	1
27	ENEE5001IU	Internship		3
28	ENEE5002IU	Thesis		2

**1. Water and Wastewater Treatment**

29	ENEE3101IU	Water Treatment	4	1
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30	ENEE3102IU	Municipal Wastewater Treatment	4	1
31	ENEE3103IU	Water Supply and Drainage Systems	3	1
32		Elective courses	13	1
33	ENEE3104IU	Industrial Wastewater Treatment	4	2
34	ENEE3106IU	Pipe and Instruments Design	4	1

**2. Solid Waste Treatment**

35	ENEE3301IU	Solid Waste Management	3	1
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**3. Air Pollution Control**

36	ENEE3202IU	Air Pollution Control Engineering	4	1
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**4. Newly added subjects**

37	BT155IU	Biology	4	1
38	IS086IU	Introduction to Computing	3	1
39	ENEE2013IU	Environmental Microbiology	2	1
40	ENEE2016IU	Environmental Microbiology Lab	2	1
41	ENEE4002IU	Advanced Engineering Drawing	3	1
42	ENEE5000IU	Pre-thesis	1	1
43	ENEE2014IU	Heat and Mass Transfer	3	2
44	Pending course ID	Professional Ethics and Skills for engineers	3	2
45	ENEE3110IU	Project 1	2	2
46	ENEE3111IU	Project 2	2	2
47	IS020IU	Engineering Economy	3	2
	<b>Elective courses (Students need to take courses from the elective courses list in 2 orientations)</b>		<b>13</b>	<b>1</b>

**1. Engineering Orientation**

48	CM301IU	Construction-Measurement-and-Cost-Estimating	3	1
49	ENEE3105IU	Treatment Plant Operation	3	1
50	ENEE3106IU	Pipe and Instruments Design	4	1
51	IS026IU	Project management	3	1
52	ENEE3103IU	Water Supply and Drainage Systems	3	1
53	BA115IU	Introduction to Business Administration	3	1
54	BA151IU	Entrepreneurship and Small Business Management	3	1

**2. Research Orientation**

55	ENEE4001IU	Research Methodology	3	1
56	ENEE1007IU	Experimental Design and Data Analysis	4	1



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57	ENEE3016IU	Emerging Environmental Technology	3	1
59	BT155IU	Plant physiology	3	1
59	CHE3211IU	Nanomaterials	3	1
60	CHE3221IU	Biomaterials	3	1



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**DEPARTMENT OF MATHEMATICS**

**Financial Engineering and Risk Management**

NO.	COURSE ID	COURSE NAME	CREDIT	OFFERED IN SEMESTER
1	EN007IU	Writing AE1	2	1
	EN008IU	Listening AE1	2	
2	MAFE101IU	Analysis 1	4	1
3	PE008IU	Critical Thinking	3	1
4	BA117IU	Micro Economics	3	1
5	MAFE102IU	Programming C/C++	4	1
6	PT001IU	Physical Training 1	3	1
7	EN011IU	Writing AE2	2	2
	EN012IU	Speaking AE2	2	
8	MAFE103IU	Analysis 2	4	2
9	MAFE104IU	Linear Algebra	4	2
10	MAFE105IU	Financial Economics	3	2
11	BA119IU	Marco Economics	3	2
12	PT002IU	Physical Training 2	3	2
13	MAFE201IU	Real Analysis	4	1
14	MAFE203IU	Analysis 3	3	1
15	MAFE215IU	Financial Management	3	1
16	MAFE204IU	Database Management system	3	1
17	PE017IU	Scientific socialism	2	1
18	MAFE206IU	Probability	3	2
19	MAFE202IU	Differential Equations	4	2
20	MAFE315IU	Introduction to Corporate Finance	3	2
21	MAFE209IU	Numerical Analysis	4	2
22	MAFE205IU	Computer Networks	4	2
23	MAFE316IU	Statistics	4	1
24	MAFE302IU	Random Processes	3	1
25	MAFE303IU	Optimization 1	4	1
26	MAFE309IU	Software Engineering	3	1
27	MAFE306IU	Financial Mathematics 1	3	2
28	MAFE307IU	Optimization 2	3	2
29	MAFE308IU	Financial Risk Management 1	3	2
30	MAFE207IU	Decision Making	3	2
31	MAFE314IU	Financial econometrics	3	2
32	MAFE401IU	Financial Mathematics 2	3	1
33	MAFE402IU	Portfolio Management	3	1



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34	MAFE403IU	Research Methods in Finance	3	1
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**Elective courses**

NO.	COURSE ID	COURSE NAME	CREDITS				OFFERED IN SEMESTER
			Total	Theory	Practice	% pratice/total	
35	MAFE209IU	Financial markets	3	3			1
36	MAFE210IU	Functional analysis	4	4			
37	MAFE211IU	Web application programming	4	3	1	1/4	
38	MAFE310IU	Modeling and simulation	4	3	1	1/4	
39	MAFE311IU	Asset pricing	3	3			1
40	MAFE312IU	Data mining	4	3	1	1/4	
41	MAFE404IU	Financial Risk Management 2	3	3			1
42	MAFE411IU	Introduction to Operations research	3	4			
43	MAFE406IU	Parallel computing	4	3	1	1/4	
44	MAFE407IU	Mathematical economics	4	4			
45	MAFE410IU	Exchange rates and International finance	3	3			
46	BA306AF	Financial statement analysis and business evaluation	3	3			1