



INTERNATIONAL UNIVERSITY  
VIET NAM NATIONAL UNIVERSITY HO CHI MINH CITY  
CENTER FOR INTERNATIONAL MOBILITY

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**SCHOOL OF BUSINESS**  
**MASTER PROGRAM**

NO.	COURSE CODE	COURSE NAME	NUMBER OF CREDITS	PREREQUISITE COURSES	OFFERED IN SEMESTER
1	PE505	Philosophy (in Vietnamese only)	4	Not required	1
2	MBA.CO.001	Statistics for Business	3	Not required	1
3	MBA.CO.002	Financial Management	3	Not required	1
4	MBA.CO.003	Marketing Management	3	Not required	1
5	MBA.CO.004	Strategic Management	3	Not required	1
6	MBA.CO.006	Operations & Supply Chain Management	3	Not required	1
7	MBA.CO.008	Research Methodology	3	Not required	1
8	MBA.CO.009	Managerial Economics	3	Not required	1
<b>TOTAL</b>			<b>25</b>		
<b>Elective courses (choose 6 out of these courses to obtain 18 credits)</b>					
1	MBA.GE.001	Negotiation and Problem-Solving Skills	3	Not required	1
2	MBA.GE.002	Business, Ethics and Society	3	Not required	1
3	MBA.CO.005	Developing Leadership Skills	3	Not required	1
4	MBA.MA.011	International Marketing	3	Marketing Management	2
5	MBA.IB.008	Cross-Cultural Management	3	Not required	1
6	MBA.IB.009	International Economics	3	Not required	1
7	MBA.IB.010	International Business Management	3	Not required	1
8	MBA.FI.010	Corporate Financial Management	3	Financial Management	2
9	MBA.FI.016	Venture Capital and Private Equity	3	Financial Management	2
10	MBA.FI.015	Financial Strategies	3	Financial Management	2
11	MBA.MA.014	Service Marketing	3	Marketing management	2
12	MBA.MA.015	New Product Development	3	Marketing management	2
13	MBA.CO.015	Human Resource Management	3	Not required	1

**DISSERTATION (17 credits)**

Students will complete the thesis within 6 months. After completing most of the courses. Students are eligible to do the thesis when they owe no more than 5 credits and have completed the course - Research Methodology (MBA.CO.008).



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**PHD PROGRAM**

<b>NO.</b>	<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>NUMBER OF PERIODS</b>
1	PHD.CO.001	Research Proposal and Writing	30
2	PHD.MR.002	Advanced Qualitative Research Methods	30
3	PHD.MR.001	Advanced Quantitative Analysis in Business	30
4	PHD.CO.002	Research Design and Analysis	30
5	PHD.MO.005	Seminar in Strategic Management	30
6	PHD.MO.006	Seminar in Supply Chain Management	30
7	PHD.MO.003	Seminar in SME and Entrepreneurship	30



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**SCHOOL OF BIOTECHNOLOGY**

Note: the master program of School of Biology consists of 3 to 4 semesters, equivalent to 1.5 to 2.0 academic years

No.	COURSE CODE	COURSE NAME	NUMBER OF CREDITS	OFFERED IN SEMESTER
<b>1. MASTER OF BIOTECHNOLOGY</b>				
1	PE505	Philosophy	3	1
2	PC9	Research Methodology	2	1
3	AC 1	Genetic Engineering	3	1,2
4	BC3	Applied Microbiology	3	1,2
5	BC2	Molecular Immunology	3	1,2
6	PC4	Advanced Biochemistry	3	1,2
7	BC4	Plant Cell Biotechnology	3	1,2
8	BC5	Advances in Genomic Reprogramming and Applications	3	1,2
9	BT306IU	Developmental Biology	3	1
10	BT201IU	Techniques in Plant Biotechnology	4	1
11	BT185IU	Pharmaceutical Biotechnology	4	1
12	BT184IU	Molecular Diagnostics	4	1
13	BT308IU	Reproductive and Regenerative Biomedicine	4	1
14	BT212IU	Stem Cell Biology	4	1
15	BT213IU	Medical Microbiology	4	1
16	THE3	Thesis	25	2,3
<b>2. MASTER OF FOOD TECHNOLOGY</b>				
1	PE505	Philosophy	3	1
2	FT001IU	Research Methodology in Food Technology	3	1
3	FT501IU	Food Chemistry and Biochemistry	3	1,2
4	FT502IU	Advanced Food Microbiology	3	1,2
5	FT503IU	Current Food Science and Technology	3	1,2
6	FT504IU	Advanced Food Analysis	3	1,2
7	FT505IU	Food Quality Assurance and Food Safety	3	1,2
8	FT508IU	Human Nutrition and Nutraceuticals	3	1,2
9	FT509IU	Food Processing Technology	3	1,2
10	FT511IU	Engineering Properties of Food Materials	3	1,2
	FT506IU	Heat and Mass Transfer	3	2
	FT507IU	Food Preservation Technology	3	2
	FT512IU	Food sensory Analysis and Food product Development	3	2
11	FT309IU	Food Laws and Standards	3	1
12	FT301IU	Food Unit Operation 1	4	1



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13	FT302IU	Food Analysis	4	1
14	FT305IU	Food Quality Assurance Systems	3	1
15	FT304IU	Food Unit Operations 2	4	1
16	FT310IU	Food Microbiology Analysis	4	1
17	FT407IU	Food Sensory Analysis	3	1
18	FT408IU	Food Product Development and Marketing	3	1
19	FT401IU	Dairy Product Technology	4	1
20	FT402IU	Beverage Technology	4	1
21	FT403IU	Cereal Product Technology	4	1
22	FT405IU	Meat Product Technology	4	1
23	FT406IU	Technology of Coffee, Tea and Cacao	4	1
24	FT5 121U	Food sensory analysis and Food product Development	3	2
25	FT.THE1	Thesis	12/24 (depend on the curriculum)	2,3,4



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**SCHOOL OF INFORMATION TECHNOLOGY**

NO	COURSE CODE	COURSE NAME	NUMBER OF CREDITS			
			Total	Lecture	Lab	OFERED IN SEMESTER
1		<b>Compulsory</b>	<b>17</b>	<b>14</b>	<b>3</b>	
	PE500	Philosophy	3	3		1
	IT501	Advanced Networking	4	3	1	1
	IT502	Advanced Database	4	3	1	1
	IT503	Programming Methodology	2	2		1
	PE501	Research Methodology	2	2		2
	PE502	Professional Ethics	2	2		2
2		<b>Electives</b>	<b>20</b>	<b>15</b>	<b>5</b>	
		Major “Information Management”: select 5 from the following courses: (at least 3 from the first 6 courses)				
	IT521	Software Designs and Architectures	4	3	1	2, 3
	IT522	Data Warehousing and Data Mining	4	3	1	2, 3
	IT	Developing Leadership Skills	4	3	1	2, 3
	IT541	Business Intelligence	4	3	1	2, 3
	IT542	Information System Management	4	3	1	2, 3
	IT525	Information System Security	4	3	1	2, 3
	IT523	User Interface	4	3	1	2, 3
	IT543	Advanced IT Project Management	4	3	1	2, 3
	IT544	Network Security	4	3	1	2, 3
	IT545	Algorithm Optimization	4	3	1	2, 3
		Major “Network Management”: select 5 from the following courses: (at least 3 from the first 6 courses)				
	IT531	Network Management	4	3	1	2, 3
	IT532	Distributed Computing	4	3	1	2, 3
	IT533	Advanced System and Network Admins	4	3	1	2, 3
	IT534	Network Application Development	4	3	1	2, 3
	IT535	Data Visualization	4	3	1	2, 3
	IT544	Network Security	4	3	1	2, 3
	IT542	Information System Management	4	3	1	2, 3
	IT525	Information System Security	4	3	1	2, 3
	IT543	IT Project Management	4	3	1	2, 3
	IT545	Algorithm Optimization	4	3	1	2, 3
3	IT561	Thesis	12	0	12	
		<b>Total</b>	<b>49</b>	<b>29</b>	<b>20</b>	



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**SCHOOL OF INDUSTRIAL ENGINEERING AND MANAGEMENT**

NO.	COURSE ID	COURSE NAME	NUMBER OF CREDITS	OFFERED IN SEMESTER
1	PE500	Philosophy	3	1
2	ISE002IU	Research Methodology	2	1
3	ISE502IU	Deterministic Optimization Models	3	1
4	ISE503IU	Stochastic Models	3	1
5	ISE508IU	Production Planning and Scheduling <i>(Compulsory courses of Industrial Engineering filed)</i>	3	2
6	ISE509IU	Supply Chain Systems <i>(Compulsory courses of Supply Chain and Logistic field)</i>	3	2
7	ISE501IU	Production and Service Analysis	3	1
8	ISE504IU	System Modeling and Simulation	3	2
9	ISE507IU	Facility Layout and Location	3	2
10	ISE505IU	Multi Criteria Decision Making	3	1 or 2
11	ISE506IU	Inventory Control and Management	3	1 or 2
12	ISE601IU	Engineering Economics	3	1 or 2
13	ISE610IU	Lean Production	3	1 or 2
14	ISE605IU	Transportation Economics	3	1 or 2
16	ISE615IU	International Transportation	3	1 or 2
17	ISE603IU	Total Quality Management	3	Additional
18	ISE609IU	Project Management	3	Additional
19	ISE612IU	Experimental Design	3	Additional
20	Thesis	Thesis	12	3



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**SCHOOL OF BIOMEDICAL ENGINEERING**  
**MASTER PROGRAM**

NO.	COURSE ID	COURSE NAME	NUMBER OF CREDITS	Offered in Semester (Please input: 1, 2 or 3)
1	BM600	(Research Methodology in Biomedical Engineering	3	1,2,3
2	BM601	Progress in Biomedical Engineering	4	1,2,3
3	BM602	Advanced Engineering Challenge in Medicine	4	1,2,3
4	BM603	Medical Instrument Design	3	1,2,3
5	BM605	Biosensors	3	1,2,3
6	BM606	Advanced Biosignal Processing	3	1,2,3
7	BM618	Pharmaceutics-Dosage Form and Design	3	1,2,3
8	BM628	Biomaterials and Biomedical Engineering	3	1,2,3
9	BM604	Design of Medical devices for the Developing Countries	3	1,2,3
10	BM608	Quality Control for Medical Devices	3	1,2,3
11	BM609	Data transmission technology in Telernedecine	3	1,2,3
12	BM610	Ultrasound Image Processing	3	1,2,3
13	BM612	Brain Computer Interface	3	1,2,3
14	BM616	Computer Vision	3	1,2,3
15	BM607	Advanced Bioimage Processing	3	1,2,3
16	BM61 I	Brain and Cognitive Sciences	3	1,2,3
17	BM6 13	Computational Methods in Biomedical Engineering	3	1,2,3
18	BM614	Advanced Computational Surgery	3	1,2,3
19	BM615	Pattern Recognition and Machine Learning	3	1,2,3
20	BM616	Computer Vision	3	1,2,3
21	BM617	Statistics For Brain And Cognitive Sciences	3	1,2,3
22	BM619	Design Of Controlled Release Drug Delivery Systems	3	1,2,3
23	BM620	Design of Oral Controlled Release Drug Delivery Systems	3	1,2,3
24	BM621	Nanoparticulate Drug Delivery Systems 1	3	1,2,3
25	BM622	Nanoparticulate Drug Delivery Systems 2	3	1,2,3
26	BM623	Drug Delivery Research Advances	3	1,2,3
27	BM624	Nanotechnology For Advanced Drug Delivery System	3	1,2,3
28	BM625	Drug Delivery Systems In Cancer Therapy	3	1,2,3





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29	BM626	Principles Of Pharmacokinetics And Drug Delivery	3	1,2,3
30	BM 627	Principles Of Pharmaceutical Engineering	3	1,2,3
31	BM 629	Characterization and Properties Of Biomaterials	3	1,2,3
32	BM 630	Biomaterials for Clinical Applications	3	1,2,3
33	BM 631	(Biocompatibility and Biodegradation Of Biomaterials	3	1,2,3
34	BM 632	Methods and Process In Fabrication of Biomaterials	3	1,2,3
35	BM 633	Molecular, Cellular and Tissue Biomechanics	3	1,2,3
36	BM 634	The Principles and Practice of Tissue Engineering and Regenerative Medicine	3	1,2,3
37	BM 635	Tissue Mechanics	3	1,2,3
38	BM 636	In vitro Studies	3	1,2,3
39	BM 637	Ex vivo and In vivo Studies	3	1,2,3
40	BM 638	Tissue: General Features and Functions	3	1,2,3
41	BM 645	Thesis		1,2,3
<b>PHD PROGRAM</b>				
1	BM9101	Biosensors	3	1,2,3
2	BM9102	Integration of MEMS technology)	3	1,2,3
3	BM9103	Modern Control System	3	1,2,3
4	BM9104	Precision Measurements By Optical Methods	3	1,2,3
5	BM9105	Quality Control for Medical Devices	3	1,2,3
6	BM9106	Advanced Biophotonics	3	1,2,3
7	BM9201	Random Processes	3	1,2,3
8	BM9202	Brain Computer Interface in Biomedical Engineering	3	1,2,3
9	BM9203	Machine Learning	3	1,2,3
10	BM9204	Ultra Sound Imaging	3	1,2,3
11	BM9205	Cognitive Science	3	1,2,3
12	BM9206	Mathematical Modeling in Medicine	3	1,2,3
13	BM9207	Sensor- based Modelling	3	1,2,3
14	BM9301	Tissue engineering at molecular and cellular level	3	1,2,3
15	BM9302	Protein engineering in cell- biomaterial interaction	3	1,2,3
16	BM9303	Application of stem cell in Tissue Engineering and Regenerative Medicine	3	1,2,3