## Possible (non-binding) schedule for Industrial and Systems Engineering (ISE) students in the B.Eng (Hons) / B.A Double Degree Programme (AY2016/17) onwards

YEAR 1		
Semester 1		M Cs
MA1505 Mathematics I <sup>1</sup>	CA	4
ST1131 Introduction to Statistics <sup>1</sup>	C1	4
Basket of Engineering Science modules	C1	4
CS1010E Programming Methodology	C1	4
EC1101E Introduction to Economic		
Analysis	C2 CA	4
GER1000 Quantity Reasoning(QR)- GEM 1	CA	4
Semester 2		M Cs
MA1506 Mathematics II <sup>1</sup>	CA	4
IE2140 Engineering Economy <sup>2</sup>	C1/	4
	CA	
ST2131 Probability	C1	4
ES1531 Critical Thinking & Expository Writing	CA	4
EC2101 Microeconomic Analysis I	C2	4
YEAR 2		
Semester 1		Μ
		Cs
IE2110 Operations Research I <sup>2</sup>	C1/	4
	CA C1	
CS1020E Data Structures and	C1	4
Algorithms		
IE2101 Introduction to Systems	C1	4
Thinking		
FASS Level-1000 Exposure module	C2	4
(Asian Studies) X 1		
(CH1101E/CL1101E/JS1101E/MS1101		
E/SE1101E/SN1101E)	C.L	4
Human and Cultures -GEM 2	CA	4
Semester 2		M Cs
IE2100 Probability Models with	C1	4
Applications		
IE2130 Quality Engineering I	C1	4
IE2150 Human Factors Engineering	C1	4
FAS1102 Public writing and	C2	4
communication		
EC2102 Macroeconomic Analysis I	C2	4
Asking Questions – GEM 3	CA	4

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2000/3000)       CA       4         Thinking & Expression – GEM 5       CA       4         Semester 2       MCs         IE4100R B.Eng. Dissertation       C1       4         (con't)       C1       4         B.Eng. Technical Electives X 1       C1       4         PH2208 Applied Ethics       CA       4         /PH2281/PH2223(replaces       CA       4         EG2401) <sup>1</sup> -       -         B.A (Econ) Electives X 1 (level 2000/3000)       C2       4		CA	4
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$\begin{array}{c cccc} (con't) & & & \\ \hline B.Eng. Technical Electives X 1 & C1 & 4 \\ \hline PH2208 Applied Ethics & CA & 4 \\ PH2281/PH2223(replaces \\ EG2401)^1 & & \\ \hline B.A (Econ) Electives X 1 (level \\ 2000/3000) & & \\ \hline B.A (Econ) Electives x 2 (level & C2 & 8 \\ \hline \end{array}$	Semester 2		MCs
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PH2208 Applied Ethics       CA       4         /PH2281/PH2223(replaces       2000/3000       2         B.A (Econ) Electives X 1 (level       C2       4         2000/3000)       B.A (Econ) Electives x 2 (level       C2       8	(con't)		
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/PH2281/PH2223(replaces           EG2401) <sup>1</sup>		CA	4
EG2401) <sup>1</sup> C2         4           B.A (Econ) Electives X 1 (level         C2         4           2000/3000)         2000/3000         2000/3000         2000/3000			
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2000/3000)         B.A (Econ) Electives x 2 (level         C2         8		C2	4
B.A (Econ) Electives x 2 (level C2 8			
	B.A (Econ) Electives x 2 (level	C2	8
	3000)		

## Minimum MCs = 180MC

<sup>†</sup>must be IE coded from list of ISE elective modules

The modules that DDP students take are counted towards the CAP in the following manner:

1 <sup>st</sup> Degree	Classified as C1 in the database
2 <sup>nd</sup> Degree	Classified as C2 in the database
Both 1 <sup>st</sup> and 2 <sup>nd</sup> degrees	Classified as CA in the database

Additional modules taken will be counted towards C1, except for modules offered by the faculty of the student's  $2^{nd}$  degree, which will be classified as C2.

Table D: BEng & BA modules that may be considered as common modules

(12 MCs of Electives: At least One BEng Module and at least One BA (Econs) Module)		
B.Eng. Modules	BA – Economics Modules	
IE2110; IE2140; IE3120; IE4220; IE4240; IE4242;	EC3312; EC3322; EC3332; EC3333; EC3382; EC3385;	
IE4243 ; IE4244	EC3386; EC4311; EC4303; EC4372; EC5104; EC5314;	
	EC4322; EC5324R ;	

## Noted 1:

Students who are taking ES1531 have fulfilled B. Eng. Programme requirements. However, students need to do another GE module to fulfil T & E Pillar's requirement.

## Noted 2:

Only for ISE DDP students from cohort AY 2012 onwards:

With the removal of the Level 1000 Physics module as an Unrestricted Elective requirement, the DDP students in this programme will be fully exempted from Unrestricted Electives. In addition, with the inclusion of several Economics modules as non-ISE technical electives in the BEng (ISE) curriculum.

Besides, students have required to taking at least 12 MC as common modules (CA) from the below table to meet the both degree requirements.

<u>Four</u> common modules (*12 MC*): MA1505, MA1506, and PH2208/PH2223 or PH2218.

At least select two modules (8 MC) from the Table D for the Common Technical Elective modules to meet both of the degree requirement

 Please take note that 8 MC of the following modules: *At least <u>One</u> BEng Module as shown in Table D At least <u>One</u> BA(Econs) Module as shown in Table D*

Noted 3:

Students also required to taking one free elective module from any of the NUS modules to meet the ISE major program requirement.