

**Department of Industrial Systems Engineering and Management**  
**Recommended Schedule for DDP in BEng (ISE) and BBA for Cohorts AY2024/2025 onwards**

**Year 1**

Semester 1			Semester 2		
	Units			Units	
CS1010E Programming Methodology	4	CA	ST2334 Probability and Statistics	4	C1
DTK1234 Design Thinking	4	C1	EG1311 Design and Make	4	C1
GE (Cultures & Connections)	4	CA	MA1508E Linear Algebra for Engineering	4	C1
IE1111R Industrial & Systems Engineering Principles & Practice I*	4	C1	IE2111 Industrial & Systems Engineering Principles & Practice II	4	C1
MA1511 Engineering Calculus	2	C1	PF1101 Fundamentals of Project Management	4	C1
MA1512 Differential Equations for Engineering	2	C1	ACC1701 Accounting for Decision Makers	4	C2
DAO1704 Decision Analytics using Spreadsheets	4	C2	STR1000 Career Creation Starter Workshops	0	C2
BPM1701 Calculus and Statistics	0	C2			
BPM1702 Microsoft Excel and PowerPoint for Business	0	C2			
BPM1705 Understanding How Business Works	0	C2			
<b>Sub-total</b>	<b>24</b>		<b>Sub-total</b>	<b>24</b>	

**Year 2**

Semester 3			Semester 4		
	Units			Units	
CDE2000 Creating Narratives	4	C1	CDE2501 Liveable Cities	4	C1
IE2141 Systems Thinking and Dynamics	4	C1	EE2211 Introduction to Machine Learning	4	C1
IE2110 Operations Research I	4	C1	IE2100 Probability Models with Applications	4	C1
CS2040 Data Structures and Algorithms	4	C1	ES2631 Critique and Communication of Thinking and Design	4	CA
BSP1703 Managerial Economics	4	C2	MKT1705 Principles of Marketing	4	C2
MNO1706 Organisational Behaviour	4	C2	GE (Singapore Studies)	4	CA
STR2000 Career Creation Starter Clinics	0	C2			
<b>Sub-total</b>	<b>24</b>		<b>Sub-total</b>	<b>24</b>	

**Year 3**

Semester 5			Semester 6		
	Units			Units	
IE3101 Statistics for Engineering Applications	4	C1	EG3611A Industrial Attachment	10	C1
IE3110R Simulation	4	C1	EG2401A Engineering Professionalism	2	C1
BSP1702 Legal Environment of Business	4	C2	UE*	4	C1
FIN2704 Finance	4	C2			
GE (Communities and Engagement)	4	CA			
BIZ Specialisation Course 1	4	C2			
<b>Sub-total</b>	<b>24</b>		<b>Sub-total</b>	<b>16</b>	

**Year 4**

Semester 7			Semester 8		
	Units			Units	
IE3100R Systems Design Project	4	C1	IE3100R Systems Design Project	4	C1
BSP2701 Global Economy	2	C2	ISE Technical Elective	4	C1
DAO2702 Programming for Business Analytics	4	C2	BIZ Specialisation Course 3	4	C2
DAO2703 Operations and Technology Management	4	C2	MNO2705 Leadership and Decision Making under Uncertainty	4	C2
BIZ Specialisation Course 2	4	C2			
<b>Sub-total</b>	<b>18</b>		<b>Sub-total</b>	<b>16</b>	

**Year 5**

Semester 9					
	Units				
BIZ Specialisation Course 4	4	C2			
BSP3701 Strategic Management	4	C2			
BIZ Common Elective (Select one from Table A)	4	CA			
<b>Sub-total</b>	<b>12</b>				

**Total (Minimum) = 182 Units**

Note:

The above is only a recommended schedule and the course offer semesters are subject to changes.

\* IE1111R is double counted to fulfill both the ISE Major requirements and GE-Data Literacy Pillar. As a result, students must take 4 Units of unrestricted electives to plug the difference.

**Table A: BIZ courses that can be double-counted as electives in ISE major**

Select ONE course:	Units	
DBA4811 Analytical Tools for Consulting	4	CA
FIN3701 Corporate Finance	4	CA
FIN3702 Investment Analysis and Portfolio Management	4	CA

The courses are counted towards your GPA in the following manner:

- 1st Degree - Tagged as C1
- 2nd Degree - Tagged as C2
- Both 1st and 2nd degrees - Tagged as CA