



# BCS- STRUCTURE D

## PROGRAMME STRUCTURE D

1	Programme Name	Bachelor of Computer Science (Hons)
2	MoHE Approval	N/481/6/0560
3	MQA Accreditation	MQA/PA 4984
4	Award	Bachelor of Computer Science (Hons)
5	Duration	3.5 years

### YEAR 1: SEMESTER 1

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3113	Introduction to Programming	Core	3
2	CSS3213	Discrete Mathematics	Core	3
3	CSS3413	Introduction to Software Engineering	Core	3
4	CSS3513	Data Communication and Networking	Core	3
5	CSS3523	Computer Architecture	Core	3
6	CSS3642	Design Thinking and Presentation	Free Modules	2
7	MPU3412	Co-curriculum	MPU	2
				<b>19</b>

### YEAR 1: SEMESTER 2

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3123	Data Structure and Algorithms	Core	3
2	CSS3133	Object Oriented Programming	Specialisation	3
3	CSS3223	Calculus	Core	3
4	CSS3313	Multimedia Technology	Core	3
5	CSS3323	Database Development and Applications	Core	3
6	CSS3533	Operating Systems	Core	3
7	UCS3**2	University Compulsory Subject I	Compulsory	2
				<b>20</b>

### YEAR 2: SEMESTER 1

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3233	Statistics	Core	3
2	CSS3423	Computer and Cyber Security	Specialisation	3
3	CSS3553	Human Computer Interaction	Specialisation	3
4	CSS3563	Artificial Intelligence	Core	3
5	CSS3613	Ethics and Professionalism	Core	3
6	CSS3632	Digital Innovation and Entrepreneurship	Free Modules	2
7	CSS3**3	Elective I	Field Electives	3
				<b>20</b>

### YEAR 2: SEMESTER 2

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3333	Web Technology	Specialisation	3
2	CSS3143	Algorithm and Design Complexity	Specialisation	3
3	CSS3443	Software Quality and Testing	Specialisation	3
4	CSS3433	Requirement Engineering	Specialisation	3
5	CSS3**3	Elective II *	Field Electives	3
6	UCS3**2	University Compulsory Subject II	Compulsory	2
				<b>17</b>

**Note:** - Programme structure is subject to changes as per approved by UTS Senate  
 - Elective courses are subject to availability.  
 - Amended Date: 17<sup>th</sup> February 2023



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#### YEAR 2: SEMESTER 3 (*Short Semester*)

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	MPU3183	Penghayatan Etika dan Peradaban ( <i>Appreciation of Ethics and Civilisations</i> ) *	MPU	3
3	MPU3143	Bahasa Melayu Komunikasi 2 **	MPU	3
2	MPU3193	Falsafah dan Isu Semasa ( <i>Philosophy and Current Issues</i> )	MPU	3
4	MPU3312	Malaysia Economy	MPU	2
5	UCS3412	University Compulsory Subject III (Bahasa Kebangsaan)	Compulsory	AU
				<b>8</b>

\* For Local student ONLY

\*\*For International student ONLY

#### YEAR 3: SEMESTER 1

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3453	IT Project Management	Core	3
2	CSS3344	Mobile Application Development	Specialisation	4
3	CSS3714	Final Year Project I	Final Year Project	4
4	CSS3**3	Elective III *	Field Electives	3
5	MPU3212	Entrepreneurship Skills	MPU	2
				<b>16</b>

#### YEAR 3: SEMESTER 2

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3543	System Administration and Network Management	Specialisation	3
2	CSS3724	Final Year Project II	Final Year Project	4
3	CSS3**3	Elective IV *	Field Electives	3
4	UCS3**2	University Compulsory Subject IV	Compulsory	2
5	UCS3**2	University Compulsory Subject V	Compulsory	2
				<b>14</b>

#### YEAR 4: SEMESTER 1

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3812	Industrial Training	Industrial Training	12
				<b>12</b>
<b>Total Credits:</b>				<b>126</b>

#### ELECTIVE COURSES

NO	CODE	COURSE	CLASSIFICATION	CREDIT
1	CSS3913	Computer Vision and Image Processing	Elective	3
2	CSS3923	Internetworking Technology	Elective	3
3	CSS3933	Embedded Systems	Elective	3
4	CSS3943	Machine Learning	Elective	3
5	CSS3953	Data Mining	Elective	3
6	CSS3963	Microcomputer Interfacing	Elective	3
7	CSS3973	System and Network Programming	Elective	3
8	CSS3983	Wireless Mobile Networking	Elective	3
9	CSS3993	Digital Marketing	Elective	3

**PROGRAMME STRUCTURE D****UNIVERSITY COMPULSORY SUBJECT**

Cluste	NO	CODE	COURSE	CREDIT
(BK)	1	UCS3412	Bahasa Kebangsaan	-
(EL)	2	UCS3132	Fundamental English	2
	3	UCS3112	Business English	2
	4	UCS3122	Academic English	2
(VM)	5	UCS3212	Creativity and Innovation	2
	6	UCS3312	Green Technology	2
(IL)	7	UCS3512	Mandarin 1	2
	8	UCS3522	Mandarin 2	2
	9	UCS3532	Intermediate Mandarin 1	2
	10	UCS3542	Intermediate Mandarin 2	2
	11	UCS3552	Intermediate Mandarin 3	2
	12	UCS3562	Intermediate Mandarin 4	2
	13	UCS3572	Advanced Mandarin 1	2
	14	UCS3582	Advanced Mandarin 2	2
	15	UCS3592	Advanced Mandarin 3	2

**Level – Basic** : 1BK + 3EL + select 1 from VM or IL cluster  
**Level – Independent User** : 1BK + 2EL + select 2 from VM and/or IL cluster  
**Level – Proficient User** : 1BK + Choose any 4 from EL or VM or IL cluster

- ✓ International students are NOT required to take Bahasa Kebangsaan.
- ✓ Basic level students need to take Fundamental English first.
- ✓ Independent and Proficient level students NOT eligible for Fundamental English.