ECE De	pt: As a	ıt 18 C	ec 2015)
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NAME:	Date:
Contact No:	MATRIC NUMBER:

# FFG Checklist for EE of AY2015 intake (direct entry to EE1 in AY2015 / streamed to EE in Year2 in AY2016)

	HAVE I FULFILLED THE FOLLOWING REQUIREMENTS?	No. of MCs	Tick if fulfilled
1.	University Level Requirements (ULR)	20	
	(i) General Education (GE) Modules  Students are required to read 20 MCs of GE modules consisting of:  GEHxxxx - Human Cultures (HC) pillar  GEQxxxx - Asking Questions (AQ) pillar  GER1000 - Quantitative Reasoning (QR) pillar  GESxxxx - Singapore Studies (SS) pillar  GET1021 - Thinking and Expression (T&E) pillar		
2.	Unrestricted Elective Modules (UEM):	16	
	To be acquired through:  (i) Enhancement Programmes		
	Recommended ULR Breadth outside student's faculty (see section 1(i) above BSP1004X / BSP1005 / ACC1002X / MKT1003X / MNO1001X / MNO3301 / DSC2006 / ES2007S / EC1301 / SC1101E.Other modules offered as UEM (module type code <b>27</b> ) by other faculties can also be taken by students to fulfil their UEM requirements.		
	(iv) Minor Prgs Please refer to http://www.eng.nus.edu.sg/ugrad/SP_minors.html		
	(v) <u>ECE Technical Electives</u> (for students who wish to achieve greater specialization in ECE fields)		
	(vi) University Scholars Prg (USP) For more info, plse refer to <a href="http://www.eng.nus.edu.sg/ugrad/SP-usp.html">http://www.eng.nus.edu.sg/ugrad/SP-usp.html</a>		
	(vii) NUS Overseas Colleges (NOC) For more info, plse refer to <a href="http://www.overseas.nus.edu.sg/noc/">http://www.overseas.nus.edu.sg/noc/</a>		
	(viii) EG1109 Statics & Mechanics of Materials (4 MCs), MLE1101 Introductory Materials Science & Engineering (4 MCs), PC1431 Physics IE & PC1432 Physics IIE (4 MCs each) will count as UEMs for those common engineering students (of AY2015 intake) who are streamed to EE in Year 2.		

3. <b>F</b>			126	
_	Programme Requirements		126	
1   F	Faculty Requirements:	Sub-total – 10 MCs		
<u>h</u>	http://www.eng.nus.edu.sg/ugrad/MS_facultyrequire	ments2015.html		
		(4 MCs)		
(	(i) ES2331 Communicating Engineering (module	` ,		
`	( and GET1021 Critical Thinking and Writing under U			
6	<u>OR</u>			
-	<u> </u>			
(	(ii) ES1501_ / ES1601 (Upon invitation from Fo Students who read ES1501_ / ES1601 need not read GE module (other than GET1021) separately to	GET1021 & ES2331. They need to take a		
<u>c</u>	<u>OR</u>			
	(iii) For students residing in U-Town:  UTW1001_ and UTW2001_ (these fulfils GE - T&E pillar under ULR)			
	( and students need to read ES2331 to fulfil I	,		
E	EG2401 Engineering Professionalism	(3 MCs)		
	HR2002 Understanding Human Relations in the			
		(3 33)		
.2	Major Requirements:	Sub-total –114 MCs		
\	YEAR 1 MODULES:			
	MA1505 Mathematics I	(4 MCs)		
	MA1506 Mathematics II	(4 MCs)		
	CS1010E Programming Methodology	(4 MCs)		
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	EE1001 Emerging Technologies in Electrical Eng			
<	EE1002 Introduction to Circuits and Systems (4 MCs)  < EG1108 Electrical Engineering (3 MCs) will be mapped to EE1002 for those common engineering students who are streamed to EE in Year 2. See * note 1 below. >			
E	EE1003 Introduction to Signals and Communications (4 MCs)			
	CE CORE MODULES.			
	ECE CORE MODULES:	(F.MCa)		
	EE2020 Digital Fundamentals	(5 MCs)		
	EE2021 Devices and Circuits	(4 MCs)		
	EE2025 Power Electronics	(4 MCs)		
	EE2023 Signals and Systems	(4 MCs)		
	EE2024 Programming for Computer Interfaces	(5 MCs)		
	EE2031 Circuits & Systems Design Lab	(3 MCs)		
	EE2032 Signals & Communications Design Lab	(3 MCs)		
	EE2011 Engineering Electromagnetics	(4 MCs)		
	EE2012 Analytical Methods in ECE	(4 MCs)		
F	PC2232 Physics for Electrical Engineers	(4 MCs)		
<u> </u>	ECE CORE – PROJECTS:			
E	EE3031 Innovation & Enterprise I	(4 MCs)		
E	EE4001 B.Eng. Dissertation	(12 MCs)		
Т	Industrial Attachment (IA):			
	EG3601 Industrial Attachment Programme	(12 MCs)		
-	103001 Industrial Attachment Programme	(12 MCs)		

The MCs of ME4245 and CG3207 are counted towards EExxxx MCs.	
EE3104C to add up to at least 22 MCs	
EE3431C and EE3731C from 2 different outer core concentrations;	
E.g 2: 3B + 3D : Student takes -	
EE3331C to add up to at least 22 MCs;	
· · ·	
EE3131C and EE3408C to fulfil the 2B from 2 different outer core concentrations;	
<b>E.g 1: 4B + 2D</b> : Student takes –	
All technical electives must add up to 22 MCs. If not, student has to take more technical electives to make up to 22 MCs.	
m <u>any</u> concentration) and 1 technical outer core breadth elective	
O technical electives consisting: At least 1 technical breadth/depth elective	
•	
oth (D) requirements	
Least 2 technical breatth electives from 2 amerem outer core concentrations	
adth (B) requirements	
: least 16 MCs of electives must be EExxxx.	
m total of at least 22 MCs of Technical electives as follows:	
	Adth (B) requirements east 2 technical breadth electives from 2 different outer core concentrations th (D) requirements east 2 technical depth electives from any concentration 032 (6 MCs) or 0 technical electives consisting: At least 1 technical breadth/depth elective many concentration) and 1 technical outer core breadth elective  All technical electives must add up to 22 MCs. If not, student has to take more technical electives to make up to 22 MCs.  E.g 1: 4B + 2D: Student takes –  EE3131C and EE3408C to fulfil the 2B from 2 different outer core concentrations; EE4210 and EE4306 to fulfil 2D from any conc; EE3204 to fulfil the 1B/D from any concentration. EE3331C to add up to at least 22 MCs;  E.g 2: 3B + 3D: Student takes –  EE3431C and EE3731C from 2 different outer core concentrations; EE4101 and EE4431 to fulfil 2D from any conc; EE4101 and EE4431 to fulfil 2D from any conc; EE4101 and EE4431 to fulfil 2D from any conc; EE4218 to fulfil the 1B/D. EE3104C to add up to at least 22 MCs

Note: The above curriculum information may be subjected to further revisions by ECE Dept.

#### Other information:

# 1. \* EG1108 Electrical Engineering (3 MC) to be mapped to EE1002 Introduction to Circuits & Systems (4 MC)

This is applicable to common engineering students (of AY2014 intake) who are <u>streamed to EE in Year 2</u> and taken EG1108 (3 MCs) mapped to EE1002 (4 MCs) who will need to make up for the shortage of 1 MC due to the mapping, with additional ULR/UEM modules, i.e. they need to fulfil 21 MCs of ULR or 17 MCs of UEM.

#### 2. Limit on Level 1000 modules:

Students should not read more than 60 MCs of level 1000 modules towards their degree requirements (minimum of 160 MCs for graduation.) <a href="http://www.eng.nus.edu.sg/ugrad/SI\_fag.html#A9">http://www.eng.nus.edu.sg/ugrad/SI\_fag.html#A9</a>

What will happen to the extra MCs if I read more than the allowed number of level 1000 modules?

These extra MCs will not be counted towards the total number of MCs required for graduation. However, they will still be counted towards the computation of CAP.

#### 3. S/U Option / Grade-free semester for AY2015 intake:

Please refer to the following links for more information on S/U Option: <a href="http://www.eng.nus.edu.sg/ugrad/SI\_su\_policies2014.html">http://www.eng.nus.edu.sg/ugrad/SI\_su\_policies2014.html</a> and <a href="https://share.nus.edu.sg/registrar/student/info/SU-FAO-fromAY2004.pdf">https://share.nus.edu.sg/registrar/student/info/SU-FAO-fromAY2004.pdf</a>

http://www.eng.nus.edu.sg/ugrad/SI\_su\_policies2014.html and https://share.nus.edu.sg/registrar/student/info/SU-FAQ-fromAY2004.pdf

## 5. Module Type Code:

	<b>7</b> 1		
11	Technical/Program Essential	A9	GEM A: SCIENCE AND TECHNOLOGY MODULE
12	Technical /Program Elective	B9	GEM B: HUMANITIES AND SOCIAL SCIENCES MODULE
14	Supportive Essential	C9	GEM A (SCI. & TECH.) & GEM B (HUMANITIES & SOC SCI.)
17	MINOR/MAJOR MODULE TO BE COMPUTED IN CAP	S9	SINGAPORE STUDIES MODULE
27	UEM (UNRESTRICTED ELECTIVE OUTSIDE MAJOR)	MB	DOUBLE COUNT (MINOR/MAJOR & ULR BREADTH)
U9	ULR BREADTH (ELECTIVES OUTSIDE STUDENT'S	ME	DOUBLE COUNT (MINOR/MAJOR & TECHNICAL
	FACULTY)		ELECTIVE)
_		MU	DOUBLE COUNT (MINOR & UEM)

For conversion of module type code, please refer to <a href="http://www.eng.nus.edu.sg/ugrad/SI">http://www.eng.nus.edu.sg/ugrad/SI</a> <a href="Module declaration.html">Module declaration.html</a>

## 6. Useful links for students residing at U-Town/Ridge View:

 $\hbox{-} \quad \text{College of Alice \& Peter Tan} \,\, \underline{\text{http://capt.nus.edu.sg/academic-programme/overview}} \,\, \underline{\text{http://capt.nus.edu.sg/academic-programme/college-modules}} \\$ 

Email contact: captbox2@nus.edu.sg

- Tembusu College <a href="http://tembusu.nus.edu.sg/education/index.php">http://tembusu.nus.edu.sg/education/index.php</a>

Email contact : tembusu-modules@nus.edu.sg

Ridge View Residential College: <a href="http://www.rvrc.nus.edu.sg/programme-Overview.html">http://www.rvrc.nus.edu.sg/programme-Overview.html</a>

Email contact: <a href="mailto:rvrc@nus.edu.sg">rvrc@nus.edu.sg</a>