Name: _____ Student Number: _____
Contact No.: _____

FFG Checklist for CEG Students of AY2014 intake (Poly direct-entry to CEG2 in AY2014):

	Have I fulfilled the following requirements?	MCs	Tick if fulfilled
1.	**University Level Requirements (ULR):**	**20**	
	(i) GEM/SS/ULR Breadth Students are required to read 20 MCs of the ULR consisting of: ▪ GEK1549 Critical Thinking & Writing (4 MCs) ▪ 1 GEM from Subject Group B: Humanities & Social Sciences (4 MCs) – *exempted* ▪ 1 SS (4 MCs) ▪ 2 ULR Breadth outside student's Faculties i.e. FoE and SoC (8 MCs) – *exempted from 1* Note: Singapore Studies (SS) module – SSA2204 or SSA2211 (recommended) Recommended ULR Breadth outside student's Faculties: ACC1002X / BSP1004X / BSP1005 / DSC2006 / EC1301 / MKT1003X / MNO1001X / SC1101E. These recommended ULR Breadths can also be used to meet **UEM requirements**; see section 2(iii) below. Other modules offered as ULR Breadth (module type code **U9**) by other faculties (excluding those offered by FoE and SoC) can also be taken by students to fulfill their ULR Breadth requirements.		
	(ii) Business Requirements Students are encouraged to read at least 1 business/management module from the School of Business (SoB) or the Engineering Technology Management Division (ETM). Students may use this business module to meet **ULR Breadth outside student's Faculties** or UEM requirements; see section 2(iii) below.		
	(iii) Minor Programmes A student may use up to **8 MCs to satisfy their ULR Breadth outside student's Faculties** (and also to fulfill the minor requirements). For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_minors.html.		
	(iv) University Scholars Programme (USP) For USP students, please refer to http://www.eng.nus.edu.sg/ugrad/SP_usp.html.		
2.	**Unrestricted Elective Modules (UEM):** *exempted 12 MCs*	**16**	
	which may be acquired through: **(i) Enhancement Programmes** ▪ EG1603, EG2603A Technopreneurship & Incubation Prg (TIP) – 2 MCs each ▪ EG2604 Innovation Prog (IP) – 4 MCs ▪ EG2605 Undergraduate Research Opportunities Prog (UROP), CP3208, CP3209 – 4 MCs ▪ EG2606A/B Independent Work Prog (IWP) – 2, 4 MCs respectively MCs of each prog can be obtained only once. For more info, please refer to http://www.eng.nus.edu.sg/undergrad/ep/ep-menu.html.		
	(ii) Business Requirements Students are encouraged to read at least 1 business/management module from the School of Business (SoB) or the Engineering Technology Management Division (ETM). Students may use this business module to meet **UEM requirements** or ULR Breadth outside student's Faculties; see section 1(ii) above.		
	(iii) Recommended Modules Recommended UEMs: ACC1002X / BSP1004X / BSP1005 / DSC2006 / EC1301 / MKT1003X / MNO1001X / SC1101E. These recommended UEMs can also be used to meet ULR Breadth; see section 1(i) above. Other modules offered as UEM (module type code **27**) by other faculties can also be taken by students to fulfil their UEM requirements.		
	(iv) Minor Programmes A student may use up to **16 MCs to satisfy their UEM** (and also to fulfill the minor requirements). For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_minors.html.		

	(v) Other CEG Technical Electives For students who wish to achieve greater specialisation within Computer Engineering. CEG students can also take other relevant modules (not listed in the CEG Master-list of Technical Electives) to fulfil UEM requirements. Refer to the advisory via http://www.ceg.nus.edu.sg/students/third_year.html.		
	(vi) University Scholars Programme (USP) For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_usp.html.		
	(vii) NUS Overseas Colleges (NOC) For more info, please refer to http://www.overseas.nus.edu.sg/noc/.		
3.	**Programme Requirements**	**124**	
	CEG Core Modules		
	CG1001 Introduction to Computer Engineering (2 MCs)		
	CG1108 Electrical Engineering (4 MCs)		
	CG2023 Signals & Systems (4 MCs)		
	CG2271 Real-Time Operating Systems (4 MCs)		
	CG3207 Computer Architecture (4 MCs)		
	CS1010 Programming Methodology (4 MCs)		
	CS1020 Data Structures and Algorithms I (4 MCs)		
	CS1231 Discrete Structures (4 MCs)		
	CS2101 Effective Communication for Computing Professionals (4 MCs) - *exempted*		
	CS2103/T Software Engineering (4 MCs)		
	EE2020 Digital Fundamentals (5 MCs)		
	EE2021 Devices & Circuits (4 MCs)		
	EE2024 Programming for Computer Interfaces (5 MCs)		
	EE3204 Computer Communication Networks I (4 MCs)		
	EG2401 Engineering Professionalism (3 MCs)		
	HR2002 Human Capital in Organizations (3 MCs) - *exempted*		
	MA1505 Mathematics I (4 MCs)		
	MA1506 Mathematics II (4 MCs)		
	PC1432 Physics IIE (4 MCs)		
	ST2334 Probability & Statistics (4 MCs)		
	PC1222 Fundamentals of Physics II (4 MCs) MA1301 Introductory Mathematics (4 MCs)* [Technical Elective or 3-months internship programme (6 MCs) EG3602 VIP / CP3200 SIP]		
	CEG Projects		
	CG3002 Embedded Systems Design Project (6 MCs)		
	EE3031 Innovation & Enterprise I (4 MCs)		
	CG4001 B.Eng. Dissertation (12 MCs)		
	CEG Technical Electives Minimum of **3** Technical Electives (**at least 12 MCs in total**) as follows: Depth (D) requirements - at least 2 technical depth electives from any concentration Note: **All 3 technical electives must add up to 12 MCs. If not, student has to take more technical electives to make up to 12 MCs.**		
	Have I fulfilled all requirements to graduate?	**160 (min)**	

Other information:

1. **Poly graduates of AY2014/15 intake admitted into CEG:**

1.1 Total (minimum) graduation MCs for students who opt for 3-months internship (6 MCs) will be 162.

1.2 *Poly students with the relevant Diploma Plus certificate in Mathematics (i.e. exempted from MA1301) will need to read an additional Technical Elective (in lieu of MA1301).

1.3 Poly student admitted into the CEG in AY2014/15 will follow AY2014/15 CEG curriculum and may be eligible for the following exemptions (up to 35 MCs), depending on the Diploma from the polytechnics.

- **University Level Requirements (up to 8 MCs)**
  - 1 GEM (Module code GXK1999 under Subject Group B: Humanities and Social Sciences) 4 MCs
  - 1 ULR Breadth module 4 MCs
- **Unrestricted Elective Modules (UEMs) 12 MCs**
- **Programme Requirements (up to 15 MCs)**
  - CS2101 Effective Communication for Computing Professionals 4 MCs
  - HR2002 Human Capital in Organizations 3 MCs
  - CG1108 Electrical Engineering OR CS1010 Programming Methodology 4 MCs
  - [Students from Ngee Ann Polytechnic, with Minor in Business Management, may also be exempted from EE3031 Innovation & Enterprise (4 MCs)]

For details on the poly exemptions based on the specific accredited diplomas, please refer to http://www.ceg.nus.edu.sg/admissions/.

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). Refer to http://www.eng.nus.edu.sg/ugrad/SI_faq.html#A9.

Note: The 12 MCs (UEMs) granted to diploma holders will not count against the limit on level 1000 modules.

3. **S/U Option (AY2014 intake):**

Please refer to the following links for more information on S/U Option:
http://www.eng.nus.edu.sg/ugrad/SI_su_policies2014.html
http://www.nus.edu.sg/registrar/edu/UG/graduation.html#SU
https://share.nus.edu.sg/registrar/student/info/SU-FAQ-fromAY2004.pdf

4. **Module Type Code**:

11	TECHNICAL ESSENTIAL	B9	GEM B: HUMANITIES AND SOCIAL SCIENCES
12	TECHNICAL ELECTIVE	C9	GEM A or/& GEM B
17	MINOR MODULE	S9	SINGAPORE STUDIES MODULE
27	UEM (UNRESTRICTED ELECTIVE OUTSIDE MAJOR)	MB	DOUBLE COUNT (MINOR & ULR BREADTH)
U9	ULR BREADTH (OUTSIDE STUDENT'S HOME FACULTY)	ME	DOUBLE COUNT (MINOR & TECHNICAL ELECTIVE)
A9	GEM A: SCIENCE AND TECHNOLOGY	MU	DOUBLE COUNT (MINOR & UEM)

For conversion of module type code, please refer to
http://www.eng.nus.edu.sg/ugrad/SI_Module_declaration.html.