**Course Assessment Table**
**BEng(Hons) in Electronic Engineering (Information Engineering)**
**(2006/07 cohort)**

**Some of the core courses listed below are offered in day(D) and/or evening(E) sessions.**
**Please refer to the Course Offering Schedule at http://www.ee.cityu.edu.hk/main/programmes/course_offer_1314Frameset.htm**

**Core Courses**

| Pre-cursor | Pre-requisite | Course Code & Title | | CU | Contact Hours | | | | C % | X % | Exam Dur | W | Equivalent Course | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lec | Tut | Lab | Ttl | | | | | | |
| | | EE2000 | Logic Circuit Design | 3 | 39 | 13 | 0 | 52 | 40 | 60 | 2 | 1 | | Note 1 |
| | | EE2003 | Circuit Theory | 3 | 39 | 13 | 0 | 52 | 40 | 60 | 2 | 1 | | Note 1 |
| | EE2000$^{\Delta}$ & EE2003$^{\Delta}$ | EE2070 | Fundamental Electronics Laboratory | 1 | 0 | 0 | 33 | 33 | 100 | 0 | - | 1 | | Note 3 |
| EE2003 | | EE2106 | Electronic Devices and Circuits | 3 | 39 | 13 | 0 | 52 | 30 | 70 | 2 | 1 | | Note 1 |
| EE2003 | EE2106$^{\Phi}$ | EE2170 | Analogue Electronics Laboratory | 1 | 0 | 0 | 33 | 33 | 100 | 0 | - | 1 | | Note 3 |
| | CS2362 or CS2363 | EE2331 | Data Structures and Algorithms | 3 | 39 | 13 | 0 | 52 | 40 | 60 | 2 | 1 | | Note 1 |
| | EE3015$^{\Phi}$ | EE2371 | Data Communications Laboratory | 1 | 0 | 0 | 39 | 39 | 100 | 0 | - | 1 | | Note 3 |
| | | CS2362 | Computer Programming for Engineers and Scientists | 3 | 26 | 13 | 0 | 39 | 30 | 70 | 2 | 1 | CS2363* [SemB: E] | Note 1 |
| | * | MA2176 | Basic Calculus and Linear Algebra | 3 | 39 | 13 | 0 | 52 | 30 | 70 | 2 | 1 | | Note 1 |
| | MA2176 or MA2183 or ♣ | MA2149 | Mathematical Analysis | 3 | 39 | 7 | 0 | 46 | 30 | 70 | 2 | 1 | | Note 1 |
| | MA2149 | MA3150 | Advanced Mathematical Analysis | 3 | 39 | 7 | 0 | 46 | 30 | 70 | 2 | 2 | | Note 1 |
| | EE2000 & [EE2003 or EE2106] & EE3120 | EE3002 | Electronic Product Design | 2 | 0 | 0 | 33 | 33 | 100 | 0 | - | 2 | | Note 4 |
| | MA2149 and EE3118$^{\Delta}$ | EE3008 | Principles of Communications | 3 | 26 | 11 | 6 | 43 | 30 | 70 | 2 | 2 | | Note 2 |
| | # | EE3014 | Engineers in Society | 2 | 20 | 6 | 0 | 26 | 100 | 0 | - | 2 | | Note 6 |
| | | EE3015 | Computer Networks | 3 | 39 | 13 | 0 | 52 | 30 | 70 | 2 | 2 | | Note 1 |
| | EE3015 | EE3016 | WANs and Communication Protocols | 3 | 26 | 8 | 18 | 52 | 30 | 70 | 2 | 2 | | Note 2 |
| | EE3008$^{\Delta}$ | EE3101 | Communication Engineering | 3 | 26 | 13 | 9 | 48 | 30 | 70 | 2 | 2 | | Note 2 |
| | MA2149 | EE3118 | Linear Systems and Signal Analysis | 3 | 26 | 13 | 9 | 48 | 30 | 70 | 2 | 2 | | Note 2 |
| EE2000 & [CS2362 or CS2363] | | EE3120 | Microprocessor & Assembly Language Programming | 3 | 26 | 8 | 15 | 49 | 40 | 60 | 2 | 2 | EE2202* [SemB: D] | Note 2 |

## Course Assessment Table

**Core Courses: Continued**

| Pre-cursor | Pre-requisite | Course Code & Title | | CU | Contact Hours | | | | C % | X % | Exam Dur | W | Equivalent Course | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lec | Tut | Lab | Ttl | | | | | | |
| | CS2362 or CS2363 | EE3206 | Java Programming and Applications | 3 | 26 | 13 | 0 | 39 | 50 | 50 | 2 | 2 | EE2311 | Note 1 |
| | EE3120 & [CS2362 or CS2363] | CS3161 | Operating System Principles | 3 | 26 | 13 | 0 | 39 | 30 | 70 | 2 | 2 | | Note 1 |
| | CS2362 or CS2363 | CS3462 | Introduction to Database Systems | 3 | 26 | 13 | 0 | 39 | 50 | 50 | 2 | 2 | | Note 1 |
| | | EE4091 | Engineering Training I for Electronic Engineering | 0 | - | - | - | - | 100 | 0 | - | 0 | | Note 5 |
| | 🕮 | EE4092 | Engineering Training II for Electronic Engineering | 0 | - | - | - | - | 100 | 0 | - | 0 | | Note 5 |
| | @ | EE4381/ CS4269/ FS4003✧ | Project Project CES Placement Project | 6 | Other activities: 130 | | 130 | 260 | 100 | 0 | - | 4 | | |

Key: CU = Credit Unit D = Day Session E = Evening Session Lec = Lecture Tut = Tutorial Lab = Laboratory C = Coursework
X = Examination Exam Dur = Exam Duration W = GGPA Weighting (per CU) S/A/B = Summer Semester/Semester A/Semester B

Δ Co-requisite: to be taken before or together with the course

\# At least 43 credit units have been completed.

@ At least 43 credit units of level 2 – 4 core or elective courses have been completed.

🕮 Part A Industrial Attachment Scheme: (i) EE4091; (ii) Pre-attachment Training; and (iii) at least 40 credit units have been completed by the end of Sem A;
Part B In-house Training: (i) EE4091; (ii) at least 40 credit units have been completed by the end of Sem A; and (iii) EE3002 Electronic Product Design

♣ A pass in A-Level Pure Mathematics/Applied Mathematics or equivalent.

Ω A pass in A-Level Pure Mathematics or equivalent.

* Students who fail CS2362, EE3120 and MA2176 may take CS2363, EE2202 and MA2183 respectively to make up the failure.

✧ FS4003 – Co-operative Education Scheme: Final Year Project Component can be taken to replace Final Year Project requirement subject to the approval of the Department.

Note 1 For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

Note 2 For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained, and a laboratory attendance of at least 75% recorded.

Note 3 For a student to pass the course, students must have a laboratory attendance of 75%.

Note 4 For a student to pass the course, at least 40% of the coursework must be obtained, and a laboratory attendance of at least 75% recorded.

Note 5 Pass/ Fail Basis. Students are required to pass the course in order to be eligible for the award.

Note 6 To pass the course, students are required to achieve at least 50% in quizzes and 50% in presentation.

## Course Assessment Table

**Technical Electives: All electives are offered in the evening. Students are required to take technical elective courses of at least 18 CUs where at least 9 CUs must be obtained from each group.**

**Group A: Information Engineering Electives – Students are required to take <u>at least</u> 3 electives from this group.**

| Pre-cursor | Pre-Requisite | Course Code & Title | | CU | Contact Hours | | | C % | X % | Exa Dur | W | Equivalent Course | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lec | Tut/Lab | Ttl | | | | | | |
| | EE3016 | EE4014 | Business Data Communications Networks | 3 | 26 | 13*/0 | 39 | 50 | 50 | 2 | 4 | | Note 1 |
| MA3150 or MA3160 | MA2149 & EE3118 | EE4212 | Information and Coding | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 1 |
| | EE3016 & CS3161& EE2331 | EE4301 | Network and System Administration | 3 | 26 | 13 | 39 | 50 | 50 | 2 | 4 | | Note 2 |
| | EE3015 & CS3161 | CS4273 | Distributed System Technologies and Programming | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | EE4216^ | Note 3 |
| | CS3462 | CS4482 | Advanced Database Systems | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 3 |
| | EE3206 or EE2311 | EE4216 | Internet Client-Server Computing | 3 | 26 | 13/0 | 39 | 40 | 60 | 2 | 4 | CS4273^ | Note 1 |
| | EE3120 | EE4218 | Computer Architecture | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 2 | | Note 1 |
| | EE3016 & MA3160 | EE4316 | Mobile Data Networks | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 1 |
| | EE3015 | CS4274 | Distributed System Technologies and Programming | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 3 |

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* Some of the tutorials will be conducted in the laboratory.

$^{\Delta}$ Co-requisite: to be taken before or together with EE4316.

^ Exclusive course

Note 1 To pass the course, students are required to achieve at least 35% in course work and 35% in the examination.

Note 2 To pass the course, students are required to achieve at least 35% in course work and 35% in the examination. Also, 75% laboratory attendance rate must be obtained.

Note 3 For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

## Course Assessment Table

**Group B: General Electives – Students are required to take <u>at least</u> 3 electives from this group.**

| Pre-cursor | Pre-Requisite | Course Code & Title | | CU | Contact Hours | | | C % | X % | Exam Dur | W | Equivalent Course | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lec | Tut/Lab | Ttl | | | | | | |
| MA2149 | | MA3160 | Probability & Stochastic Processes | 3 | 39 | 7/0 | 46 | 30 | 70 | 2 | 2 | | Note 3 |
| | EE3118 | EE4015 | Digital Signal Processing in Communications | 3 | 39 | 0 | 39 | 30 | 70 | 2 | 4 | EE3202 or EE4219 | Note 1 |
| | EE3114 or EE3118 | EE4045 | Computer Controlled Systems | 3 | 26 | 13/0 | 39 | 40 | 60 | 2 | 4 | | Note 1 |
| EE3202 | MA2149 & EE3118 | EE4206 | Digital Image Processing | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 1 |
| MA3150 & MA3160 | MA2149 & CS2363 | EE4208 | Computer Graphics for Engineers [#] | 3 | 26 | 13*/0 | 39 | 40 | 60 | 2 | 4 | | Note 1 |
| | CS2363 or CS2362 | EE4213 | Human-Computer Interaction | 3 | 26 | 13/0 | 39 | 40 | 60 | 2 | 4 | | Note 2 |
| | MA3150 or MA3160 | EE4215 | Security Technology | 3 | 26 | 13*/0 | 39 | 40 | 60 | 2 | 4 | | Note 1 |
| | EE3118 | EE4209 | Digital Audio Technology | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 1 |
| MA3150 | MA2149 & EE3118 | EE4210 | Neural Networks and Fuzzy Systems | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | | Note 1 |
| MA3150 & MA3160 | MA2149 & CS2363 | EE4211 | Computer Vision | 3 | 26 | 13*/0 | 39 | 40 | 60 | 2 | 4 | | Note 1 |
| | EE3015 | EE4103[^] | Modern Internet Technologies | 3 | 26 | 13/0 | 39 | 30 | 70 | 2 | 4 | EE5413[!] | Note 1 |

<u>Key</u>: CU = Credit Unit Lec = Lecture Tut = Tutorial Lab = Laboratory C = Coursework X = Examination
Exam Dur = Exam Duration W = GGPA Weighting (per CU) S/A/B = Summer Semester/Semester A/Semester B

[#] New course title

* Some of the tutorials will be conducted in the laboratory.

[^] New course code and title

[!] Exclusive course; for transitional arrangement, all current students can take EE4103 to recover failure or to improve grade D in EE5413.

Note 1 To pass the course, students are required to achieve at least 35% in course work and 35% in the examination.

Note 2 For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

## Course Assessment Table

**University Language Requirements, Chinese Civilization and Out-of-Discipline**

| Pre-cursor | Pre-requisite | Course Code & Title | CU | Contact Hours Lec/Tut/Lab | Contact Hours Ttl | C % | X % | Exam Dur | W | Equivalent Course | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **6 Credit Units of University Language Requirements** | | | | | | | | | * |
| | | EN2271 English Communication Skills for Electronic Engineering I | 3 | 39 | 39 | 100 | 0 | - | 0 | | |
| | | EN2272 Report Writing for Engineers | 3 | 39 | 39 | 100 | 0 | - | 0 | | |
| | | OR | | | | | | | | | |
| | | University English Courses | 6 | | | | | | | | * |
| | | *Core Courses* | | | | | | | | | |
| | | EL0221 Spoken Language (1 credit) | | 48 | 48 | 30 | 70 | # | 0 | | |
| | | EL0224 Written Language (2 credits) | | 60 | 60 | 30 | 70 | # | 0 | | |
| | | *Required Courses (BEngEE programme specific)* | | | | | | | | | |
| | | EL0401 Presentation Skills (1 credit) | | 24 | 24 | 100 | 0 | 0 | 0 | | |
| | | EL0403 Grammar in Use (1 credit) | | 24 | 24 | 100 | 0 | 0 | 0 | | |
| | | EL0407 Writing Effective Lab Reports (1 credit) | | 24 | 24 | 100 | 0 | 0 | 0 | | |
| | | **6 Credit Units of Chinese Civilization** | 6 | 78 | 78 | 100 | 0 | 0 | 0 | | |
| | | **9 Credit Units of Out-of-Discipline Courses** | 9 | - | - | - | - | - | 1 | | @ |

* University Language Requirement

The University requires that all undergraduate programmes include six credit units of language courses and students should satisfy the English Language Attainment Requirement (ELAR) before graduation.

Under these regulations, students entering with Grade D or above in HKASL Use of English or its equivalent should take EN2271 and EN2272. Students who do not have Grade D or above in UE or its equivalent should earn 6 credits from the University English courses where at least one credit must be earned from EL0407 Writing Effective Lab Reports apart from the core courses.

@ Any Level 2 or above courses except for courses in the disciplines of electronic engineering, computer science, computer engineering, and information/multi-media/web-based technology. The actual contact hours for lectures and tutorials depend on students' choices.

\# Please consult the course lectures fro the most updated information.