**Subject Title**: Introduction to Information Technology  
**Code**: COMP100  
**Level**: 1  
**Credit Value**: 3.00  
**Offering Department**: Department of Computing  
**Offering Semester**: 1  
**Pre-requisite(s)**: Nil  
**Co-requisite(s)**: Nil  
**Exclusion(s)**: Nil  
**Medium of Instruction**: English

### Contact Hours

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>14</td>
</tr>
<tr>
<td>Laboratory</td>
<td>42</td>
</tr>
<tr>
<td>Total</td>
<td>56</td>
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</tbody>
</table>

### Objectives
This subject provides students with the basic concepts of information technology and computing, as well as knowledge and practice on deploying and controlling common information technology applications. This subject is suitable for all students as a first subject in information technology, whether they intend to continue to study information technology or not. Students who intend to study information technology-related programmes are strongly recommended to take both COMP100 and COMP111.

### Learning Outcomes
On successful completion of this subject, students are expected to be able to:
1. understand how a computer works;
2. understand the potentials of information technologies in business and industry;
3. use popular operating systems to carry out sequence of tasks;
4. appreciate the power of programmed computer operation;
5. understand the current trends in the development of popular information technologies such as the Internet and related tools; and
6. appreciate IT-related intellectual property issues and their protection.

### Teaching and Learning Approach
The course material will be delivered as a combination of mass lectures and small group supervised laboratory sessions. Students will get familiarized with common operating systems and environment, internet and multimedia tools. They will also attempt to use basic office automation tools such as word processing, spreadsheet, and simple database operations.

### Assessment Method

- **Coursework**: 100%

### Keyword Syllabus
1. Introduction to Computer Systems  
   - Major components of computer systems: central processing units, storage devices and media, inputs / outputs; working principle of computers; contemporary types of CPU, memory, input / output devices currently in use.
2. System Software  
   - Functions and operations of system software; basic features and commands of MS Windows and Unix / Linux; script language and task control.
3. Communication, Multimedia and the Internet  
   - Communication and networking; Internet resources and tools; multimedia information creation and application.
4. IT Applications  
   - Introduce typical applications of information technologies such as office automation, knowledge management, education, entertainment, digital edutainment, manufacturing, geo-informatics, bio-informatics, etc.
5. Inside IT Applications
   Role of programming in IT applications, e.g. shell programs, macros in Excel, robotic control, concept of algorithm and programming, debugging.

6. IT Intellectual Property
   Security, privacy and ethics with software; copyright and patent law; trade secrets and registered design.

**Reference List**