# Subject Description Form

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>COMP100</th>
</tr>
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<tbody>
<tr>
<td>Subject Title</td>
<td>Introduction to Information Technology</td>
</tr>
<tr>
<td>Credit Value</td>
<td>3</td>
</tr>
<tr>
<td>Level</td>
<td>1</td>
</tr>
<tr>
<td>Pre-requisite/ Co-requisite/ Exclusion</td>
<td>Nil</td>
</tr>
</tbody>
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## 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.

## Intended Subject Learning Outcomes

Upon completion of the subject, students will 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.

## Subject Synopsis/Indicative Syllabus

### 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.
# Teaching/ Learning Methodology

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.

# Alignment of Assessment and Intended Subject Learning Outcomes

<table>
<thead>
<tr>
<th>Specific Assessment Methods/Tasks</th>
<th>% Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Assessment</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
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# Student Study Effort Expected

Class contact (time-tabled):

- Lecture 14 Hours
- Laboratory 42 Hours

**Total student study effort:** 56 Hours

# Reading List and References

**Reference List:**