This is a **Graduate Course**. MPhil/PhD students in the Department of Computer Science should read the Coursework Requirement.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Dr. J. Pan</th>
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**Syllabus**

This course introduces (1) the basic concepts of machine learning and core machine learning models and methods, including supervised learning, non-supervised learning, classification, and regression; (2) the machine learning pipeline including data gathering, preprocessing, visualization; selecting machine learning models and tuning hyperparameters; training, validation, and testing; (3) case studies of machine learning applications including handling large datasets. The course consists of several assignments as well as a final project that lets students apply machine learning to their individual/group research projects.

**Topics**

- 

**Pre-requisites**

**Compatibility**

**Instructor's web**

**Assessment**

- In-course assessment:
- Examination marks:

**Timetable**

Teaching Period: January 18, 2021 – April 30, 2021

Reading Week: March 8, 2021 - March 13, 2021

<table>
<thead>
<tr>
<th>Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>Venue</th>
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<tbody>
<tr>
<td>Monday</td>
<td>2:30pm</td>
<td>5:20pm</td>
<td>online</td>
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**Discussion board**