**FE8707**

**Programming Web Applications in Finance**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Academic Year** | : | 2017/2018 | **Mini Term** | : | 3 |
| **Pre-requisites** | : | FEXXX Object Oriented Programming | | | | |
|  |  |  | | | | |

**Course Description and Scope**

This course aims to further the knowledge and skills of programming towards building real-world application, especially for the internet. Web-based application is easily accessible from local or internet with a browser on PC and mobile. Web-based application is also cross-platform. It has been replacing desktop-based application. Financial applications, which was traditionally implemented in Excel due to convenience, is gaining its momentum to be moved to the web. There are powerful web UI frameworks to provide user interaction. And there are powerful libraries to display financial data in browser.

This is of very high practical value to the students because they can turn their knowledge to applications quickly and more prepared for the career.

**Course Learning Goals, Objectives & Assessment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Learning Goals¹** | **Course Learning Objective²** | **Assessment Method**³  **(For each learning goal, briefly describe the assignment(s) to be used for assessing the achievement of the stated objectives)** | **NBS Standard Rubrics**4  (For each learning goal, state the actual rubric to be used for grading the assignment(s) described) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Learning & Teaching Methods**

* 12x3.5-hour teaching sessions. Two lectures per week. It composes of lectures (10) and case studies (2).
* Self-studying and Assignment: 3-5 hours per week

**Course Assessments**

|  |  |  |
| --- | --- | --- |
| **Components** | **Marks** | **Individual/Group** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total** | **100** |  |

**Readings and References**

XXXX xxxxxxxx xxxxxxxxx

xxxxxxxx xxxxxxxxx

xxxxxxxx xxxxxxxxx

**Other Resources**

XXXX xxxxxxxx xxxxxxxxx

xxxxxxxx xxxxxxxxx

xxxxxxxx xxxxxxxxx

**Course Instructors**

|  |  |  |  |
| --- | --- | --- | --- |
| **Instructor** | **Office Location** | **Phone** | **Email** |
| Yang Ye |  | +65 9382 6762 | yy@runchee.com |

**\***Please indicate the course coordinator with a “#” next to instructor name (if applicable)

**Proposed Weekly Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Topic** | **Learning Objectives** | **Readings/Activity** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Academic Integrity Policy**

NTU’s Student Academic Integrity Policy requires all members of the NTU community to uphold the values of academic integrity in all academic undertakings. The policy defines the following acts as academic dishonesty:

* plagiarism,
* academic fraud and
* facilitating academic dishonesty.

All students are expected to read and observe the policy guidelines detailed at this website: <http://academicintegrity.ntu.edu.sg/for-everyone/policy/>. The academic integrity website also highlights the penalties that will be imposed on students who are found to have violated the policy, and the processes that will be followed when we deal with cases of academic dishonesty.

***Appendix***

***For instructor reference only***

***(Do not print for students)***

***Further description of each Assessment Plan component:***

*¹NBS Learning Goals*

Acquisition of Knowledge | Ethical Reasoning | Quantitative Literacy Skills | Oral Communication | Written Communication | Teamwork & Interpersonal Skills | Motivation & Development of Self & Others

*²Course Learning Objectives*

Related to the expected learning goal(s) | Are observable and measurable

*³Assessment Method*

Assignments specially designed to assess students’ achievement of the stated objectives, e.g., the use of an article critique for assessing critical thinking skills, an analysis of a dilemma for assessing ethical reasoning,  etc.

*4NBS Standard Rubrics*

Criteria in rubrics must relate closely to the stated objectives | Strongly encouraged to use the NBS standard rubrics, and you may add on other criteria relevant to your assessment | NBS Office of Accreditation (AO) can assist you with rubrics that are aligned to the NBS learning goals¹