

**City University of Hong Kong  
Course Syllabus**

**offered by School of Data Science  
with effect from Semester A 2018/19**

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**Part I Course Overview**

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| <b>Course Title:</b>   | Seminars on Data Science I |
| <b>Course Code:</b>  | SDSC8001                   |
| <b>Course Duration:</b>                                      | Two Semesters              |
| <b>Credit Units:</b>   | 1                          |
| <b>Level:</b>  | R8                         |
| <b>Medium of Instruction:</b>                                | English                    |
| <b>Medium of Assessment:</b>                                 | English                    |
| <b>Prerequisites:</b><br><i>(Course Code and Title)</i>      | Nil                        |
| <b>Precursors:</b><br><i>(Course Code and Title)</i>         | Nil                        |
| <b>Equivalent Courses:</b><br><i>(Course Code and Title)</i> | Nil                        |
| <b>Exclusive Courses:</b><br><i>(Course Code and Title)</i>  | Nil                        |

## Part II Course Details

### 1. Abstract

This course aims to

- help students to discover and critically apply the research approach and methodology for carrying out research works
- broaden students' knowledge in various areas of data science by attending seminars given by experts
- strengthen the presentation and communication skills through oral presentation and discussion with their fellow students

### 2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

| No. | CILOs <sup>#</sup>  | Weighting*<br>(if applicable) | Discovery-enriched curriculum related learning outcomes (please tick where appropriate) |    |    |
|-----|---|-------------------------------|---|----|----|
|     |   |                               | A1  | A2 | A3 |
| 1.  | Initiate and recognize different research methodologies in various areas of data science and advance knowledge by conducting literature search. | 50                            | ✓   | ✓  |    |
| 2.  | Describe the research problems and the solutions in some subject areas as presented in the seminars.  | 30                            | ✓   | ✓  | ✓  |
| 3.  | Prepare a presentation summarizing research findings in specific topic(s).  | 20                            | ✓   | ✓  | ✓  |
|     |   | 100%                          |   |    |    |

\* If weighting is assigned to CILOs, they should add up to 100%.

<sup>#</sup> Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

**A1: Attitude**

*Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.*

**A2: Ability**

*Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.*

**A3: Accomplishments**

*Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.*

### 3. Teaching and Learning Activities (TLAs)

| TLA                              | Brief Description  | CILO No. |   |   |  |  |  | Hours/week (if applicable) |
|----------------------------------|--|----------|---|---|--|--|--|----------------------------|
|                                  |  | 1        | 2 | 3 |  |  |  |                            |
| Seminar participation            | -Regular attendance<br>-Questions and discussion   | ✓        |   |   |  |  |  | 1 hour/ week               |
| Seminar presentation and writing | -One report on some research problems and findings<br>- One seminar presentation on the report |          | ✓ | ✓ |  |  |  |                            |

### 4. Assessment Tasks/Activities (ATs)

| Assessment Tasks/Activities                              | CILO No. |   |   |  |  |  | Weighting* | Remarks |
|--|----------|---|---|--|--|--|------------|---------|
|  | 1        | 2 | 3 |  |  |  |            |         |
| Continuous Assessment: <u>100</u> %                      |          |   |   |  |  |  |            |         |
| Attendance in seminars                                   | ✓        |   |   |  |  |  | 50%        |         |
| Report writing and seminar presentation                  |          | ✓ | ✓ |  |  |  | 50%        |         |
|  |          |   |   |  |  |  |            |         |
| Examination: <u>0</u> % (duration: _____, if applicable) |          |   |   |  |  |  |            |         |
|  |          |   |   |  |  |  | 100%       |         |

\* The weightings should add up to 100%.

## 5. Assessment Rubrics

| Assessment Task                            | Criterion  | Pass (P)/ Fail (F) |
|--|--|--------------------|
| 1. Attendance in research seminars         | Attendance of at least 12 departmental seminars and active participation in the seminar discussions. | Pass/ Fail         |
| 2. Report writing and seminar presentation | Ability to write a report and make a seminar presentation.   | Pass/ Fail         |

100% Coursework on a Pass/Fail basis.

**Part III Other Information** (more details can be provided separately in the teaching plan)

**1. Keyword Syllabus**

- Independent study
- Literature search
- Communication and presentation skills

**2. Reading List**

**2.1 Compulsory Readings**

*NIL*

**2.2 Additional Readings**

*(Additional references for students to learn to expand their knowledge about the subject.)*

*NIL*