

1. TEMPLATE FOR REVISED COURSE CONTENT

| Academic Year | AY2019-20 | Semester | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|-----------------|---|--------|-----------|-------------|------|-----|--------|-----|--------|-----|-----|--------|-----|--------|------|----|--------|-----|--------|-----|-----|--------|-----|-----|--------|-----|------|--------|----|
| Course Coordinator | Director - CN Yang Scholars Programme Associate Chair (Academic) for all Engineering schools | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Code | <table border="1"> <thead> <tr> <th>School</th> <th>Programme</th> <th>Course Code</th> </tr> </thead> <tbody> <tr> <td rowspan="2">SCBE</td> <td>BIE</td> <td>BG4211</td> </tr> <tr> <td>CBE</td> <td>CH4211</td> </tr> <tr> <td rowspan="2">CEE</td> <td>CEE</td> <td>CV4211</td> </tr> <tr> <td>ENE</td> <td>EN4211</td> </tr> <tr> <td rowspan="2">SCSE</td> <td>CE</td> <td>CE4211</td> </tr> <tr> <td>CSC</td> <td>CZ4211</td> </tr> <tr> <td>EEE</td> <td>EEE</td> <td>EE4081</td> </tr> <tr> <td>MSE</td> <td>MAT</td> <td>MS4211</td> </tr> <tr> <td rowspan="2">MAE</td> <td>AERO</td> <td rowspan="2">MA4211</td> </tr> <tr> <td>ME</td> </tr> </tbody> </table> | | | School | Programme | Course Code | SCBE | BIE | BG4211 | CBE | CH4211 | CEE | CEE | CV4211 | ENE | EN4211 | SCSE | CE | CE4211 | CSC | CZ4211 | EEE | EEE | EE4081 | MSE | MAT | MS4211 | MAE | AERO | MA4211 | ME |
| School | Programme | Course Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SCSE | CE | CE4211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CSC | CZ4211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EEE | EEE | EE4081 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSE | MAT | MS4211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAE | AERO | MA4211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Title | CNYSP Overseas Final Year Project | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pre-requisites | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No of AUs | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Hours | Lab: 40 hours per week (scholars are expected to work full time, i.e. 8 hours/day, 5 days/week) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposal Date | 20 June 2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Course Aims

Completing a 5-month research attachment in a reputable overseas university allows you to gain insights into the breadth and diversity of research work in an international environment, and build a global network. You will work with distinguished researchers in world-class laboratories, and develop an understanding of the processes involved in the design, development and implementation of a research project. You will learn to critically review scientific literature, systematically collect data, and logically analyze results in a specialized area of study. You will also develop and polish your oral and written communication skills. After going through the rigorous research process, you will be well-prepared for higher degree studies (Ph.D.).

Intended Learning Outcomes (ILO)

By the end of this course, you would be able to:

1. Apply problem-solving and critical thinking skills in the research context.
2. Critically review and appraise scientific literature such as journal papers.
3. Systematically collect and process accurate and consistent data.
4. Logically analyze, evaluate and interpret results.

5. Summarize findings and justify conclusions.
6. Write quality reports for readers to understand the significance of problems addressed.
7. Present and defend your work to reviewers.

The specific learning outcomes, along with the assessment guidelines, are in accordance with the School to which you belong to.

Course Content

1. You will experience independent supervised research work in a selected field of study.
2. You will be supervised by the faculty from overseas Universities (Overseas Supervisor) and the Academic Supervisor from your respective home schools.
3. The specific content is dependent on the selected field of study.

Assessment (includes both continuous and summative assessment)

You will be assessed by the Academic Supervisor, with input from the Overseas Supervisor, following the assessment criteria for Final Year Project in your respective schools. Schools may also appoint an independent examiner/moderator, if necessary, based on current FYP assessment criteria.

| School | Programme | FYP Course Code |
|--------|-----------|-----------------|
| CEE | CEE | CV4911 |
| | ENE | EN4911 |
| EEE | EEE | EE4080 |
| | IEM | IM4080 |
| MAE | AERO | MA4079 |
| | ME | |
| MSE | MAT | MS4089 |
| SCBE | BIE | BG4801 |
| | CBE | CH4801 |
| SCSE | CE | CE4079 |
| | CSC | CZ4079 |

Formative feedback

You will receive written or verbal feedback from your supervisor(s) from the overseas University and assigned NTU faculty.

Learning and Teaching approach

| Approach | How does this approach support you in achieving the learning outcomes? |
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| Active Learning | You will learn to be responsible, independent, self-disciplined and self-motivated. You will become better at managing your time, resources and emotions in this independent supervised research work. You will acquire critical and logical thinking skills, and creative problem solving skills. You will gain confidence in your work and your capabilities, and develop fine oral and written communication skills. These skills would prepare you well for higher degree studies (Ph.D.). |
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Reading and References

Reading materials are dependent on the selected field of study and specific to each project. Supervising faculty will recommend reading materials, and you will conduct a comprehensive literature review as well.

Course Policies and Student Responsibilities

(1) General

You are expected to complete all assigned readings and activities, attend all lab sessions/research meetings punctually and take all scheduled assignments and tests by due dates. You are expected to take responsibility to follow up with course notes, assignments and course related announcements for research sessions they have missed. You are expected to participate in all research discussions and activities.

(2) Absenteeism

Absence from lab sessions/research meetings without a valid reason will affect your overall course grade. Valid reasons include falling sick supported by a medical certificate.

(3) Compulsory Assignments

You are required to submit compulsory assignments on due dates. The scores will be included in the course assessment.

Academic Integrity

Good academic work depends on honesty and ethical behaviour. The quality of your work as a student relies on adhering to the principles of academic integrity and to the NTU Honour Code, a set of values shared by the whole university community. Truth, Trust and Justice are at the core of NTU's shared values.

As a student, it is important that you recognize your responsibilities in understanding and applying the principles of academic integrity in all the work you do at NTU. Not knowing what is involved in maintaining academic integrity does not excuse academic dishonesty. You need to actively equip yourself with strategies to avoid all forms of academic dishonesty, including plagiarism, academic

fraud, collusion and cheating. If you are uncertain of the definitions of any of these terms, you should go to the [academic integrity website](#) for more information. Consult your instructor(s) if you need any clarification about the requirements of academic integrity in the course.

Course Instructors

None

Planned Weekly Schedule

To be discussed and agreed on between you and your supervising faculty.

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