

## **Annexe A: New/Revised Course Content in OBTL+ Format**

### **Course Overview**

The sections shown on this interface are based on the templates [UG OBTL+](#) or [PG OBTL+](#)

If you are revising/duplicating an existing course and do not see the pre-filled contents you expect in the subsequent sections e.g. Course Aims, Intended Learning Outcomes etc. please refer to [Data Transformation Status](#) for more information.

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| Expected Implementation in Academic Year                   | AY2024-2025  |
| Semester/Trimester/Others (specify approx. Start/End date) | Semester 1   |
| Course Author<br>* Faculty proposing/revising the course   | Mr Paul McClelland   |
| Course Author Email  | msegraduate@ntu.edu.sg   |
| Course Title   | Application of Patents & Registered Design in Engineering Related Industries |
| Course Code  | MS6021   |
| Academic Units   | 3  |
| Contact Hours  | 39   |
| Research Experience Components                             |  |

## Course Requisites (if applicable)

|                       |  |
|-----------------------|--|
| Pre-requisites        |  |
| Co-requisites         |  |
| Pre-requisite to      |  |
| Mutually exclusive to |  |
| Replacement course to |  |
| Remarks (if any)      |  |

## Course Aims

This course follows on from the module Fundamentals of IP to provide deeper knowledge and skills relating to some aspects of patent and registered design having substantial relevance in the engineering industry.

The course provides you with the ability to identify aspects of patent and registered design law, understand how knowledge of patent and registered design law can drive an organization's IP strategies, and assess potential courses of action concerning patentable inventions and design protection. Particular emphasis will be placed on the legal issues in relation to creation, protection, and exploitation of these intellectual assets.

A note on the legal cases that are highlighted in the study units: these cases are for illustrative purposes in relation to the legal principles discussed; in general you are NOT expected to be able to recall them or use them in presenting arguments for assessment purposes.

## Course's Intended Learning Outcomes (ILOs)

Upon the successful completion of this course, you (student) would be able to:

|       |   |
|-------|---|
| ILO 1 | Apply the range of the patent and registered design protection regimes and their related legislation and regulations  |
| ILO 2 | Determine the qualifying criteria for protection of patent and design rights, and duration of protection under the respective regimes                             |
| ILO 3 | Evaluate patent and registered design protection regime(s) or strategy for IP assets of a business  |
| ILO 4 | Appraise issues relating to ownership and control of patent and registered design rights  |
| ILO 5 | Assess potential infringing behaviour/activities, and possible defences against allegations of infringement   |
| ILO 6 | Appraise appropriate remedies for instances of proven infringement  |
| ILO 7 | Propose how to steer a business's IP strategies and objectives based on the protection afforded by the patent and registered design protection regime or strategy |
| ILO 8 | Assess potential business applications of IP rights/assets relating to patent and registered design   |
| ILO 9 | Assess different considerations for the making of IP contracts and transactions focusing on patent and registered design  |

## Course Content

Development of the Singapore Patent System (3 hours)

Patentability Criteria: Novelty, Inventive Step and Industrial Applicability (9 hours)

Prior Art and Priority Claims (3 hours)

Patent Entitlement and Inventorship (3 hours)

Assessing Business Strategies: Patenting (6 hours)

Relationship between Patents and Designs: Protection Strategies (3 hours)

Development of the Singapore Designs System (3 hours)

Design Registration Criteria, Ownership, and Rights (6 hours)

Assessing Business Strategies: Registered Designs (3 hours)

**Reading and References (if applicable)**

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| IPA-authored Learner’s Guide containing key content (required) |
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## Planned Schedule

| Week or Session | Topics or Themes   | ILO | Readings                           | Delivery Mode | Activities                                      |
|-----------------|--|-----|------------------------------------|---------------|---|
| 1               | Development of the Singapore Patent System; Patentability Criteria: Novelty, Prior Art and Priority Claims | 1-2 | Prescribed Learner's Guide reading | In-person     | Lecture   |
| 2               | Patentability Criteria: Inventive Step and Industrial Applicability  | 2-3 | Prescribed Learner's Guide reading | In-person     | Lecture; tutorial involving case study analysis |
| 3               | Entitlement to Patents and Inventorship  | 4-5 | Prescribed Learner's Guide reading | In-person     | Lecture; tutorial involving case study analysis |
| 4               | Patent Enforcement and Infringement: Announce CA1  | 4-5 | Prescribed Learner's Guide reading | In-person     | Lecture; tutorial involving case study analysis |
| 5               | Assessing Business Strategies: Patenting   | 5   | Prescribed Learner's Guide reading | In-person     | Lecture; tutorial involving case study analysis |
| 6               | CA1 Common Test  | 1-5 | Prescribed Learner's Guide reading | In-person     | Lecture; tutorial involving case study analysis |
| 7               | Development of the Singapore Registered Designs System   | 6-7 | Prescribed Learner's Guide reading | In-person     | Lecture; tutorial involving case study analysis |

| Week<br>or<br>Session | Topics or Themes   | ILO | Readings                           | Delivery Mode | Activities  |
|-----------------------|--|-----|------------------------------------|---------------|---|
| 8                     | Design<br>Registration:<br>Criteria,<br>Ownership, and<br>Rights               | 6-8 | Prescribed Learner's Guide reading | In-person     | Lecture;<br>tutorial<br>involving<br>case study<br>analysis |
| 9                     | Registered<br>Design<br>Enforcement<br>and<br>Infringement;<br>Announce CA2    | 6-8 | Prescribed Learner's Guide reading | In-person     | Lecture;<br>tutorial<br>involving<br>case study<br>analysis |
| 10                    | Assessing<br>Business<br>Strategies:<br>Registered<br>Designs                  | 8-9 | Prescribed Learner's Guide reading | In-person     | Lecture;<br>tutorial<br>involving<br>case study<br>analysis |
| 11                    | Relationship<br>Between<br>Patents and<br>Designs:<br>Protection<br>Strategies | 6   | Prescribed Learner's Guide reading | In-person     | Lecture;<br>tutorial<br>involving<br>case study<br>analysis |
| 12                    | CA 2 (Group<br>Assignment<br>deliverables)                                     | 6-9 | Prescribed Learner's Guide reading | In-person     | Lecture;<br>tutorial<br>involving<br>case study<br>analysis |
| 13                    | CA3 Common<br>Test (Individual)  | 1-9 |                                    | In-person     | Conducted<br>during<br>lecture<br>session                   |

## Learning and Teaching Approach

| Approach         | How does this approach support you in achieving the learning outcomes?  |
|------------------|---|
| Lecture          | You will be presented with overviews and key takeaways in the lecture presentations, using standard presentation formats enhanced with online resources to illustrate explanations.   |
| Tutorial         | You will be presented with hypothetical fact patterns that you will work through in a guided manner (modified essay question). You will be required to formulate the responses in a group, and present the same to the whole class, and receive feedback as to the accuracy of responses. |
| Group assignment | Groups will be given assignment briefs containing 2 main deliverables: a) presentation as a group; b) a written report/memorandum   |

# Assessment Structure

Assessment Components (includes both continuous and summative assessment)

| No. | Component   | ILO | Related PLO<br>or<br>Accreditation | Weightage | Team/Individual | Rubrics  | Level of Understanding |
|-----|---|-----|------------------------------------|-----------|-----------------|----------|------------------------|
| 1   | Continuous Assessment (CA):<br>Test/Quiz(Common Test<br>(Duration: 1 hour; closed book;<br>Answer booklet is required.))    | 1-5 |                                    | 20        | Individual      | Analytic | Multistructural        |
| 2   | Continuous Assessment (CA):<br>Presentation(Group Assignment<br>(Presentation))   | 6-9 |                                    | 20        | Team            | Analytic | Multistructural        |
| 3   | Continuous Assessment (CA):<br>Test/Quiz(Common Test<br>(Duration: 1.5 hours; closed book;<br>Answer booklet is required.)) | 1-9 |                                    | 60        | Individual      | Analytic | Multistructural        |

## Description of Assessment Components (if applicable)

### Continuous Assessment (CA) 1:

You will have to complete 1 close book test with a duration of 1 hour. The test will be held during one of the scheduled lecture hours.

### Continuous Assessment (CA) 2: Group Assignment

You will have to complete a group assignment in the form of a presentation. Detailed instructions (including case studies and (guiding) questions for CA2) will be made available on the course site in due time.

### Continuous Assessment (CA) 3:

You will have to complete 1 close book test with a duration of 1.5 hours. The test will be held during one of the scheduled lecture hours.

## Formative Feedback

Feedback will be given on a constant basis, in the following contexts:

1. In respect of your responses to hypothetical problem questions attempted during tutorial
2. In respect of your presentation deliverables for CA1 and CA2 (group assignments); feedback will be given post-presentation
3. Review session ahead of final written CA, as a class and on an individual basis (voluntary)



# NTU Graduate Attributes/Competency Mapping

This course intends to develop the following graduate attributes and competencies (maximum 5 most relevant)

| Attributes/Competency | Level        |
|-----------------------|--------------|
| Ethical Reasoning     | Intermediate |
| Self-Management       | Intermediate |
| Transdisciplinarity   | Intermediate |

## Course Policy

### Policy (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. On the use of technological tools (such as Generative AI tools), different courses / assignments have different intended learning outcomes. Students should refer to the specific assignment instructions on their use and requirements and/or consult your instructors on how you can use these tools to help your learning. Consult your instructor(s) if you need any clarification about the requirements of academic integrity in the course.

### Policy (General)

You are expected to complete all assigned readings, activities, assignments, attend all classes punctually and complete all scheduled assignments by due dates. You are expected to take responsibility to follow up with assignments and course related announcements. You are expected to participate in all project critiques, class discussions and activities.

### Policy (Absenteeism)

In-class activities make up a significant portion of your course grade. Absence from class without a valid reason will affect your participation grade. Valid reasons include falling sick supported by a medical certificate and participation in NTU's approved activities supported by an excuse letter from the relevant bodies. There will be no make-up opportunities for in-class activities.

### Policy (Others, if applicable)

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