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.

Expected Implementation in Academic Year	AY2024-2025
Semester/Trimester/Others (specify approx. Start/End date)	Semester 1
Course Author * Faculty proposing/revising the course	Mr Ng Chong Yuan
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Course Title	Fundamentals of Intellectual Property in Materials Science and Engineering
Course Code	MS6020
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 provides you with a working understanding on significant intellectual property (IP) protection regimes in Singapore, covering copyright, patents, registered design, trade marks and trade secrets and the relevant legislation and legal principles.

The central aim of the course is providing students with the ability to identify, differentiate and apply various aspects of these IP regimes in connection with a business's intellectual asset outputs.

Particular emphasis will be placed on the legal issues in relation to creation, protection, and exploitation of these intellectual assets. Within this context, the course explores how analysing IP rights protection laws and their considerations can guide a business's IP strategies, and how a business is able to use such IP considerations to assess the viability of potential courses of action and their plausible business implications.

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 students 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	Differentiate the range of IP regimes and their related legislation and regulations
ILO 2	Describe the qualifying criteria for IP protection/grant of IP rights, and duration of protection under the various IP regimes
ILO 3	Examine IP assets and determine the most appropriate IP protection regime(s) or strategy for effectiveness
ILO 4	Evaluate and determine issues relating to ownership and control of IP rights
ILO 5	Analyse and identify potential infringing behaviour/activities, and possible defences against allegations of infringement
ILO 6	Recommend appropriate remedies for instances of proven infringement
ILO 7	Analyse how the protection afforded by each IP protection regime or strategy can steer a business's IP strategies and objectives
ILO 8	Assess potential business applications of various IP rights/assets
ILO 9	Assess different considerations for the making of IP contracts and transactions

Course Content

Introduction to IP and Societal Justifications for IP Protection (3 hours)

Understanding the Singapore IP Ecosystem (3 hours)

Copyright Law: Practical Application and Business Considerations (6 hours)

Confidential Information: Practical Application and Business Considerations (3 hours)

Patent Law: Practical Application and Business Considerations (6 hours)

Registered Design Law: Practical Application and Business Considerations (6 hours)

Trade Mark Law: Practical Application and Business Considerations (6 hours)

Infringement, Defences and Remedies of IP Rights (3 hours)

Commercial Transactions of IP Rights: Licensing and Assignments (3 hours)

Reading and References (if applicable)

Pre readings:

1. IPOS website http://www.ipos.gov.sg
2. Copyright Infopack (IPOS) https://www.ipos.gov.sg/resources/copyright
3. Trade Mark Infopack (IPOS) https://www.ipos.gov.sg/resources/trade-mark
4. Classification of Goods and Services https://www.ipos.gov.sg/resources/trade-mark

IPA-authored Learner's Guide containing key content (required)

Planned Schedule

Week or Session	Topics or Themes	ILO	Readings	Delivery Mode	Activities
1	Introduction to IP and IP Law	1, 2	Prescribed Learner's Guide reading	In-person	Lecture
2	Confidential information (including ideas, trade secrets, and knowhow)	1, 2, 3, 4, 9	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
3	Patent Law Basics	1, 2, 3, 4, 5	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
4	Registered Design Law & Layout Circuit Design Protection Basics	1, 2, 3, 4, 5	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
5	Copyright Law (1)	1, 2, 3, 4	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
6	Trade Mark Law (1)	1, 2, 3, 4	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
7	CA1 (Common test, individual)	1, 2, 3, 4		In-person	Carried out in lecture session

Week or Session	Topics or Themes	ILO	Readings	Delivery Mode	Activities
8	Copyright Law (2): Business Strategy	3, 4, 6, 7, 8, 9	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis; announce CA2 (Group assignment)
9	Trade Mark Law (2): Business Strategy	3, 4, 6, 7, 8, 9	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
10	Copyright & Trade Marks: Infringement, Defences & Enforcement Strategies	5, 6	Prescribed Learner's Guide reading	In-person	Lecture; tutorial involving case study analysis
11	Dealing in IP Rights (Licensing)	4, 7, 8, 9		In-person	Workshop (during lecture session), tutorial involving case study analysis
12	CA 2(Group assignment)	2, 3, 4, 7, 8		In-person	Presentations and defence (carried out in lecture session)
13	CA3 Common Test (Individual)	1-9		In-person	Carried out during lecture 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 one assignment brief 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 or Accreditation	Weightage	Team/Individual	Rubrics	Level of Understanding
1	Continuous Assessment (CA): Test/Quiz(CA1 - Common Test (Duration: 1 hour; closed book; Answer booklet is required.))	1-5		20	Individual	Analytic	Multistructural
2	Continuous Assessment (CA): Presentation(CA2 - Group Assignment (written response and presentation))	1-3, 7-9		20	Team	Analytic	Multistructural
3	Continuous Assessment (CA): Test/Quiz(CA3 - Common Test (Duration: 1.5 hour; closed book; 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 which consists of (A) a written response and (B) a presentation. Detailed instructions (including case studies and 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 hour. 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 student responses to hypothetical problem questions attempted during tutorial
2. Review session post CA 1 (common test)
3. In respect of student presentation deliverables for CA 2 (component of group assignment); feedback will be given post-presentation

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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