

MS4661 – Application of Patents & Registered Design in Materials Related Industry

Course Code	MS4661				
Course Title	Application of Patents & Registered Design in Materials Related Industry				
Pre-requisites	MS4660	Fundamentals of Intellectual Property in Materials Science and Engineering			
Pre-requisite for	NIL				
No of AUs	3				
Contact Hours	Lectures	26	Tutorials	13	

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.

Intended Learning Outcomes (ILO)

By the end of this course, you (as a student) would be able to:

1. Apply the range of the patent and registered design protection regimes and their related legislation and regulations
2. Determine the qualifying criteria for protection of patent and design rights, and duration of protection under the respective regimes
3. Evaluate patent and registered design protection regime(s) or strategy for IP assets of a business
4. Appraise issues relating to ownership and control of patent and registered design rights
5. Assess potential infringing behaviour/activities, and possible defences against allegations of infringement
6. Appraise appropriate remedies for instances of proven infringement
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

8. Assess potential business applications of IP rights/assets relating to patent and registered design
9. Assess different considerations for the making of IP contracts and transactions focusing on patent and registered design

Course Content

1. Development of the Singapore Patent System (2 hours)
2. Patentability Criteria: Novelty, Inventive Step and Industrial Applicability (6 hours)
3. Prior Art and Priority Claims (2 hours)
4. Patent Entitlement and Inventorship (2 hours)
5. Assessing Business Strategies: Patenting (4 hours)
6. Relationship between Patents and Designs: Protection Strategies (2 hours)
7. Development of the Singapore Designs System (2 hours)
8. Design Registration Criteria, Ownership, and Rights (4 hours)
9. Assessing Business Strategies: Registered Designs (2 hours)

Reading and References

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

Course Policies and Student Responsibilities

As a student of the course, you are required to abide by both the University Code of Conduct and the Student Code of Conduct. The Codes provide information on the responsibilities of all NTU students, as well as examples of misconduct and details about how students can report suspected misconduct. The university also has the Student Mental Health Policy. The Policy states the University's commitment to providing a supportive environment for the holistic development of students, including the improvement of your mental health and wellbeing. These policies and codes concerning students can be found in the following link.

<http://www.ntu.edu.sg/SAO/Pages/Policies-concerning-students.aspx>

Academic Integrity

Good academic work depends on honesty and ethical behavior. Quality of your work as a student relies on adhering to the principles of academic integrity and to the NTU Honor 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 of NTU, it is important that you recognize your responsibilities in understanding and applying the principles of academic integrity in all the work you do at the University. 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, and 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.