

MS4660 – Fundamentals of Intellectual Property in Materials Science and Engineering

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| Course Code | MS4660 | | | | |
| Course Title | Fundamentals of Intellectual Property in Materials Science and Engineering | | | | |
| Pre-requisites | NIL | | | | |
| Pre-requisite for | MS4661 | Application of Patents & Registered Design in Materials Related Industry | | | |
| | MS4662 | Appreciating IP in Research & Development | | | |
| No of AUs | 3 | | | | |
| Contact Hours | Lectures | 26 | Tutorials | 13 | |
| Course Aims | | | | | |
| <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> | | | | | |
| Intended Learning Outcomes (ILO) | | | | | |
| <p>By the end of this course, you (as a student) would be able to:</p> <ol style="list-style-type: none"> 1. Differentiate the range of IP regimes and their related legislation and regulations 2. Describe the qualifying criteria for IP protection/grant of IP rights, and duration of protection under the various IP regimes 3. Examine IP assets and determine the most appropriate IP protection regime(s) or strategy for effectiveness 4. Evaluate and determine issues relating to ownership and control of IP rights 5. Analyse and identify potential infringing behaviour/activities, and possible | | | | | |

defences against allegations of infringement

6. Recommend appropriate remedies for instances of proven infringement
7. Analyse how the protection afforded by each IP protection regime or strategy can steer a business's IP strategies and objectives
8. Assess potential business applications of various IP rights/assets
9. Assess different considerations for the making of IP contracts and transactions

Course Content

1. Introduction to IP and Societal Justifications for IP Protection (2 hours)
2. Understanding the Singapore IP Ecosystem (2 hours)
3. Copyright Law: Practical Application and Business Considerations (4 hours)
4. Confidential Information: Practical Application and Business Considerations (2 hours)
5. Patent Law: Practical Application and Business Considerations (4 hours)
6. Registered Design Law: Practical Application and Business Considerations (4 hours)
7. Trade Mark Law: Practical Application and Business Considerations (4 hours)
8. Infringement, Defences and Remedies of IP Rights (2 hours)
9. Commercial Transactions of IP Rights: Licensing and Assignments (2 hours)

Reading and References

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)

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.