



seeNTU 2026

Module Synopses

seeNTU 2026 Module Schedule

Date	Module Code	Module Title	Time
2 June 2026 (Tue)	CCEB/1	Be a Molecular Detective for a Day – Theory and hands-on experience on a benchtop NMR Spectrometer	9:30 am – 5:30 pm
	NBS/1	The Art of Negotiation	9:30 am – 1:00 pm
	ASE/1	Nature's Palette: The Science of Colour in the Natural World	2:00 pm – 5:30 pm
	SSS/1	Distributive Justice	2:00 pm – 5:30 pm
3 June 2026 (Wed)	SSS/2	Crash Course to Singapore Politics	9:30 am – 1:00 pm
	CCDS/1	Python Project for Beginners	2:00 pm – 5:30 pm
	CCEB/2	Introduction to Chemical Process Simulation in Aspen HYSYS	2:00 pm – 5:30 pm
4 June 2026 (Thu)	SPMS/1	Exploring Quantum Mechanics and its weirdness	9:30 am – 1:00 pm
	EEE/1	Introduction to Aerial Robotics	2:00 pm – 5:30 pm
	SSS/3	Foundational Thanatology: Understanding Death, Dying, Grief, and A Live Fully Embraced	2:00 pm – 5:30 pm
5 June 2026 (Fri)	MAE/1	The Art and Science of Project Management	9:30 am – 1:00 pm
	NBS/3	The Future of Finance: The Path to a Thriving Career in FinTech	9:30 am – 1:00 pm
	MSE/1	Light Switches in Molecules: The Magic of Photochromism	2:00 pm – 5:30 pm
	SSS/4	Exploring Human Economic Behaviours Through Experiments	2:00 pm – 5:30 pm
11 June 2026 (Thu)	NBS/2	Investing for Impact	9:30 am – 5:30 pm

Module Code	CCEB/1
Module Title	Be a Molecular Detective for a Day – Theory and hands-on experience on a benchtop NMR Spectrometer
Description	<p>Nuclear Magnetic Resonance (NMR) Spectroscopy (related to the Magnetic Resonance Imaging aka MRI technique used in medical diagnosis) is a very powerful and advanced method which allows scientists to understand the structure and purity of compounds. It is used extensively in scientific research in the fields of chemistry, materials science and biology, as well as in medicine and various industries.</p> <p>In this module, during the morning session, you will be introduced to the basic theory behind NMR spectroscopy (only basic knowledge of the atomic structure and a very preliminary understanding of types of simple molecules such as alcohols, amines, ethers and esters is required).</p> <p>During the afternoon hands-on session, you will learn to identify unknown compounds using the theory you have learned from actual data. You will get to use a new type of portable NMR spectrometer called a benchtop NMR and learn to prepare samples, acquire data and interpret the data under guidance.</p>
Lecturer	Dr Sumod Pullarkat
Mode of Delivery	Lecture / Laboratory

Nanyang Business School

2 June 2026 (Tue) 9:30 am – 1:00 pm

Module Code NBS/1

Module Title The Art of Negotiation

Description Have you ever argued with a group mate over who should lead a final presentation? Perhaps you want to present first because you are more articulate, while your peer insists on being speaker number one because she is team leader. Both of you focus on defending your positions rather than on presenting well as a group. As a result, a reluctant compromise to split the presentation time equally is reached, even though this may not be the wisest decision for your group. This is bargaining over positions, which is typically how people tend to negotiate in school and at work. Positioning bargaining can lead to inefficient decisions that prioritise individual demands over group performance.

In the same presentation example, both of you could choose to first discuss your underlying interests. You may discover that your group mate wants to present first to reduce stress, while you are confident to handle questions from the audience at the end of the presentation. By adopting a balanced, others-centred focus, you may eventually agree to your peer presenting the opening while you handle the closing and Q&A. This principled approach to negotiation is more likely to lead to an outcome that satisfies both of you and improves the quality of the presentation. Principled negotiation can be effective for achieving sustainable and performance-driven outcomes.

This module offers you the opportunity to acquire an understanding of principled negotiation, a strategic framework developed by the Harvard Law School. You will gain hands-on experience in negotiation through engagement in a peer simulation. The module is limited to a maximum of 20 participants.

Lecturer Dr David Yew

Mode of Delivery Seminar

Asian School of the Environment

2 June 2026 (Tue) 2:00 pm – 5:30 pm

Module Code ASE/1

Module Title Nature's Palette: The Science of Colour in the Natural World

Description Nature's Palette is an immersive seminar that decodes the vibrant language of the natural world. By bridging the physics of light, the biology of life, and the evolution of human culture, this session explores how colour functions as both a physical phenomenon and a catalyst for artistic inspiration.

From the atomic lattices of gemstones and the global history of lapis lazuli mining to the nanostructures of iridescent wings and the chemistry of botanical pigments, you will analyse the mechanics that define the visual spectrum.

Through interactive discourse, we will reveal why colour is far more than an aesthetic; it is a complex driver of evolution, ecological interaction, and social construction.

Lecturer Dr Le Chencheng

Mode of Delivery Seminar

School of Social Sciences

2 June 2026 (Tue) 2:00 pm – 5:30 pm

Module Code SSS/1

Module Title Distributive Justice

Description This course will explore the normative dynamics of distributive justice. Scholars typically understand distributive justice to concern the distribution of money, resources, and opportunities among members of a group. Is there a limit to how much 'stuff' any person ought to own? Is there a threshold beyond which inequality becomes unfair? Is it appropriate for people to claim to 'deserve' their success? In short, distributive justice concerns who should get what and how much.

We will begin with John Rawls's seminal argument that economic inequalities are only legitimate insofar as they maximise the positions of the least advantaged members of society, and insofar as those inequalities do not restrict liberty.

We will then consider two critiques of Rawls. From Rawls's left, G.A. Cohen criticises Rawls for allowing too much inequality, and argues that the just society will be more egalitarian – akin to a 'camping trip' where hierarchies do not exist and where people share resources collectively. From Rawls's right, libertarians F.A. Hayek, Robert Nozick, and Charles Murray argue that it is unjust for the government to engage in redistribution. So long as people do not commit fraud or steal, they are entitled to the fruits of their labour: wide inequality is just insofar as it is the product of free choice.

To close, we will ask whether it is appropriate to talk about distribution at all. Iris Marion Young condemns the 'distributive paradigm' as distorting, and urges us to pursue a more relational 'politics of difference.'

Lecturer Asst Prof Eric Cheng

Mode of Delivery Lecture / Seminar

School of Social Sciences

3 June 2026 (Wed) 9:30 am – 1:00 pm

Module Code SSS/2

Module Title Crash Course to Singapore Politics

Description The module will be an extremely brief introduction to Singapore politics, covering the basic facets of Singapore's political system. This includes the parliamentary system, electoral system, the reasons for PAP's longevity, and Singapore's core values and principles.

The module will be an interactive seminar-style, as student participation will be vital.

Lecturer Assoc Prof Walid Jumblatt Abdullah

Mode of Delivery Seminar

College of Computing and Data Science**3 June 2026 (Wed) 2:00 pm – 5:30 pm****Module Code** CCDS/1**Module Title** Python Project for Beginners**Description** In the guided project, students are first introduced to simple Python concepts. Students will learn concepts such as variables, conditional statements, loops, and functions while building their Python project.**Lecturer** Dr Josephine Chong
Dr Vidya Sudarshan**Mode of Delivery** Tutorial**School of Chemistry, Chemical Engineering and
Biotechnology****3 June 2026 (Wed) 2:00 pm – 5:30 pm****Module Code** CCEB/2**Module Title** Introduction to Chemical Process Simulation in Aspen HYSYS**Description** We all learn about the chemistry of reactions (rate equations, rate constant, order of reaction, equilibrium, etc.) in A-level Chemistry. Have you ever wondered where do chemical reactions fall in the scheme of things in a chemical plant? Do you know that the life of a Chemical Engineer can also be exciting? Chemical engineering is not just about experiments, but also about playing with simulation software.

In this module, we shall look into various parts of a chemical plant. We shall employ the Aspen HYSYS modelling platform - a user-friendly and exciting tool - to simulate and understand the operation of different parts of chemical plants.

This module shall incorporate a combination of lectures and hands-on simulation sessions. The broad aim of this module is to give students a light appreciation of some core chemical engineering fundamentals with the aid of typically used simulation tools.

Lecturer Dr Mukta Bansal**Mode of Delivery** Lecture / Tutorial / Laboratory

School of Physical and Mathematical Sciences

4 June 2026 (Thu) 9:30 am – 1:00 pm

Module Code SPMS/1

Module Title Exploring Quantum Mechanics and its weirdness

Description In this module, we will construct the basic framework of Quantum Mechanics based on the outcomes of the Stern-Gerlach experiment. The mathematics involved will be matrix algebra.

After we have constructed its mathematical framework, we will apply the framework to explore some bizarre aspects of Quantum Mechanics, such as entanglement.

Lecturer Dr Leek Meng Lee

Mode of Delivery Lecture

School of Electrical and Electronics Engineering

4 June 2026 (Thu) 2:00 pm – 5:30 pm

Module Code EEE/1

Module Title Introduction to Aerial Robotics

Description This module introduces how drones fly and how they are used in the real world, covering basic principles of lift, stability and control, how onboard sensors (camera, GPS, IMU) enable navigation, and how simple autonomy and safety rules are implemented in practice.

Students will see recent research highlights from universities (such as drone swarms, inspection and human-drone interaction) and take part in short hands-on activities, including a drone demonstration, basic simulator practice and a small team mission-design exercise.

Lecturer Dr Yuan Shenghai
Mr Yang Yizhuo
Mr Bai Ruofei

Mode of Delivery Lecture / Laboratory

School of Social Sciences

4 June 2026 (Thu) 2:00 pm – 5:30 pm

Module Code SSS/3

Module Title Foundational Thanatology: Understanding Death, Dying, Grief, and a Live Fully Embraced

Description This workshop will consider foundational content from the field of Thanatology, the multidisciplinary study of death, dying, grief, and bereavement, and will be tempered with core ideas from Positive Psychology and the art of living well.

We will consider key theories and discuss issues such as societal attitudes towards death and the end of life, cultural and institutional systems in place to facilitate this human condition, local initiatives on living and leaving well, as well as the psychosociospiritual impacts of grief and loss.

The workshop will entail a mini-lecture, facilitated discussions, personal reflection and introspection, and opportunities for learners to consider the practical value of what was taught.

Lecturer Asst Prof Paul Victor Patinadan
Prof Andy Ho Hau Yan

Mode of Delivery Lecture / Tutorial

School of Mechanical and Aerospace Engineering		5 June 2026 (Fri) 9:30 am – 1:00 pm
Module Code	MAE/1	
Module Title	The Art and Science of Project Management	
Description	<p>Ever planned a group project, organised a school event, or tried to balance multiple deadlines? That's Project Management in action! Whether it's planning a party, launching a YouTube channel, or building an app, knowing how to manage time, cost, and teamwork is a game-changer.</p> <p>In this fun and interactive module, you'll learn the secrets behind managing projects like a pro!</p> <p>What You'll Do:</p> <ul style="list-style-type: none"> • Tackle real-world challenges—plan a big event, create a business idea, or design your dream project. • Master the basics—initiate, plan, execute, monitor, and control projects like a true leader. • Work in teams and solve problems creatively—just like professionals do in tech, business, and entertainment! <p>By the end of this module, you'll be equipped with skills to handle school projects, personal goals, and even future career ambitions with confidence. Who knows? You might just be the next great project leader!</p>	
Lecturer	Dr Felix Lena Stephanie	
Mode of Delivery	Lecture / Tutorial	

Nanyang Business School		5 June 2026 (Fri) 9:30 am – 1:00 pm
Module Code	NBS/3	
Module Title	The Future of Finance: The Path to a Thriving Career in FinTech	
Description	<p>The financial industry has undergone a significant transformation due to advancements in technology.</p> <p>In this module, we will give a quick review of different types of technologies and their disruptive or empowering effects on financial services.</p> <ol style="list-style-type: none"> 1. The basics of blockchain technology and decentralised finance. 2. The basics of artificial intelligence and its application in finance. 3. The Bachelor of Applied Computing in Finance program. 	
Lecturer	Dr Ernie Teo	
Mode of Delivery	Seminar	

School of Materials Science and Engineering		5 June 2026 (Fri) 2:00 pm – 5:30 pm
Module Code	MSE/2	
Module Title	Light Switches in Molecules: The Magic of Photochromism	
Description	<p>This module explores the science and applications of photochromic molecules embedded in polymeric matrices, focusing on their ability to undergo reversible colour changes when exposed to specific light wavelengths.</p> <p>Students will explore the principles of photochromism, learn to create designs on polymer samples using UV light, and understand the practical uses of these materials in everyday life.</p> <p>Topics Covered:</p> <ul style="list-style-type: none">• Fundamentals of photochromism and molecular transformations.• Interaction of photochromic molecules with polymeric matrices.• Real-world applications, including lenses and responsive designs.• Prototyping and designing functional objects with photochromic properties. <p>Activities:</p> <ul style="list-style-type: none">• Hands-on experiments to fabricate samples with light-induced colour changes. <p>By the end of this laboratory session, students will gain practical experience and an understanding of the potential of photochromic materials in engineering and design.</p>	
Lecturer	Dr Rui Goncalves	
Mode of Delivery	Laboratory	

School of Social Sciences		5 June 2026 (Fri) 2:00 pm – 5:30 pm
Module Code	SSS/4	
Module Title	Exploring Human Economic Behaviours Through Experiments	
Description	<p>This module aims to acquaint pre-tertiary students with the experimental methodology in behavioural economics. Throughout the 3.5-hour class, students will delve into the ways economists leverage experiments to enhance their insights into human economic and strategic decision-making.</p> <p>In addition to lectures, the module incorporates interactive laboratory sessions, allowing students to actively engage as research participants.</p> <p>This hands-on experience not only offers practical exposure but also provides an opportunity for students to earn rewards through their participation in the experiments.</p>	
Lecturer	Dr He Tai-Sen	
Mode of Delivery	Lecture / Laboratory	

Nanyang Business School

11 June 2026 (Thu) 9:30 am – 5:30 pm

Module Code NBS/2

Module Title Investing for Impact

Description Traditional investing is primarily motivated by maximising financial returns while minimising risk. But what if financial capital could make a positive contribution to environmental and social issues as well? This is the premise behind “impact investing” and the topic of this full-day module.

The morning session begins with a review of common sustainability issues and how companies are expected to measure and disclose data on these issues. After building this foundation, we review the ways in which investors incorporate sustainability information into their investment strategies.

After lunch, the module dives deep into impact, including how it is defined and measured. Finally, using case studies from both public and private markets, we explore how investors can mobilise capital to generate positive, measurable environmental and/or social impacts alongside a financial return.

Lecturer Assoc Prof Matthew Dearth

Mode of Delivery Seminar