Information Engineering and Media (IEM) is where the techniques of science meet the intricacies of the arts. Here you will be equipped with the necessary engineering skills and capabilities and meet challenges in the thriving infocomm media landscape.

The Undergraduate Experience
As an IEM student, you will embark on a holistic curriculum spanning engineering, art, and media courses to prepare you for a seamless entry into the thriving infocomm media industry.

Curriculum Overview
Our engineering courses include programming, computing, communications, networking, and digital audio/video processing. This constitutes 60% of the curriculum. In addition, you will also gain broad insights and the creative aspects of the media industry. The 20% of the curriculum comprises courses such as digital art and design, animation and game design and radio/TV/movie production.

The Integrated Programme
The Integrated Programme is an exclusive fast-track programme that allows high-calibre students to complete both the Bachelor and Master degrees at an accelerated pace of 4.5 years. It offers incredible flexibility and suits those who wish to deepen their knowledge in a specific, engineering field.

The Double Degree Programme
Combining the best of both worlds from the School of Electrical and Electronic Engineering and the School of Humanities and Social Sciences, this dual degree programme combines the rigorous logic of engineering with the quick wit of economics. This integrated curriculum aims to equip students with a diverse and extensive range of knowledgeable skills and skills in both fields and enables them to navigate the evolving landscape of the global marketplace.

The Second Major Programme
This programme equips students with in-depth knowledge and skills in Engineering and Business, giving them an attractive competitive advantage, increasing their market value and giving them access to a wider range of career options and opportunities.

Join Others Like Yourself
Do you believe in making a difference to the world we live in, armed with the skills and passion that you have? Do you have technical competency you would like to develop, coupled with a thirst to learn more about the creative side of things? Come join us here at the Information Engineering and Media (IEM) degree programme, where you will master the skills required to understand the technology, as well as gain the creativity to create more versatile tools for yourself and others around you.

Are you ready?
“Building a Fire for Lasting Opportunities”

BEng (IEM) & MSc Integrated Programme (by invitation only)
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For more details, visit: http://iemonline.ntu.edu.sg/P

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Top students are encouraged to apply for the Bachelor of Engineering (IEM) and Bachelor of Arts (Economics) double degree programme. The duration of 4.5 to 5.0 years establishes a solid foundation of skills and a pace is enabling graduates navigate the evolving landscape of the global marketplace.

BEng (IEM) with a Second Major in Business
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OVERSEAS EXCHANGE PROGRAMME

Breaks your horizons with the various programmes available for students to explore new lands. You can get the opportunity to study, conduct research, or work in another country. Below are some of our students’ experiences.

De On the World in Sweden

On a sailing experience of 47 days, I experienced a lot of new things and was able to meet people from different countries. Living in an environment like that was a whole different experience. I learned how to prepare meals, wash dishes, and other usual comforts in Singapore. I hope to participate in another exchange and sailing trip in the future.

Jade Wei Wei Yu

Alumni IEM Batch 2008

Security Processing at OCBC Bank

Trip with other Exchange Students

I had a very good exchange experience. I shared ideas and personal growth with other students and was able to understand different cultures and lifestyles. I was also able to make new friends from other parts of the world. Overall, it was a great experience and I would definitely participate in another exchange trip in the future.

Yonsei University

Tiffany Kristy Zhou Lili

Visualisation & Animations Media

Participating in the GEM Explorer overseas exchange programme has been the best experience of my life. I got to explore new cultures, make new friends, and experience new things every day with passion.

Sweet, yummy, delicious! Apart from the delectable food, another highlight of our experience was the late night cooking sessions and bonding over the kitchen.

Yonsei University

Tiffany Kristy Zhou Lili

Visualisation & Animations Media

The many international friendships I formed have become part of my unforgettable memories. I have learned and experienced new things from other parts of the world and I can’t wait to visit their homes.

IEM has equipped me with a diversity of skills that have been very relevant to my career. My work requires me to use my technical knowledge, as well as my ability to think creatively and with communication skills that I have acquired during my studies. IEM taught me a lot and it is truly a refreshing and enriching experience that I will never forget in a lifetime.

Ayesha Shakya

Yonsei University

Visualisation & Animations Media

The IEM curriculum is designed to build and enhance your capabilities in the technical and creative streams through engineering, information technology and communications as well as media and production courses.

The BEng curriculum is recognised for its depth in technology and broad coverage in marketing and production. It is designed to equip you with the skills to work in the modern media industry and to make a difference.

The EAB has been very beneficial to my career progression. Not only have the courses equipped me with technical knowledge and skills applicable in the working world.

IEM has demonstrated the value of the BEng (IEM) degree and is recognised in all countries. For more information on admission requirements and financial aid, please visit www.ntu.edu.sg/Academics/Pages/MinorProgramme.aspx

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YEARS 1, 2, 3 & 4

Curriculum Overview

YEAR 1

• Introduction to Sustainability
• Basic Media Writing
• Computing
• Mathematics I
• Ethics and Moral Reasoning
• Signals and Systems
• Software Engineering

YEAR 2

• Engineering Design I
• Engineering Mathematics I
• Electrical & Electronic Engineering
• Digital Signal Processing and Applications
• Virtual & Augmented Reality
• Image Processing
• Digital Video Processing
• Audio Signal Processing

YEAR 3

• Telecommunication Systems
• Cellular Comm. System Design
• AI & Data Mining
• Computer Architecture

YEAR 4

• Specialisations & Electives
• Free Elective 4

Specialisations

• Electrical & Electronic Engineering
• Communications & Networking
• Artificial Intelligence
• Cybersecurity & Information Assurance
• Internet of Things

Electives

• Technical with Art, Practicals & Projects
• Technical Information & Communication
• Media Design & Media Production

Minor Programmes

Applications


Minor Programmes Application Coordination: IEM 01631

Admissions Information: IEM 01632

Accredited by the Engineering Accreditation Board (EAB), the BEng (IEM) degree is recognised in all countries that are signatories to the Bologna, such as the UK, USA, and Australia.