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The Vice-Chancellor’s Message

The University of South Australia is very proud to offer an Engineering Management Postgraduate Degree in partnership with our colleagues at Kaplan. The Master of Engineering (Engineering Management) programme closely aligns learning with professional practice to give you a head-start as you advance your career.

We are proud to be working with Kaplan.

The University of South Australia is a globally connected and engaged university. Our teaching is industry-informed and our research is inventive and adventurous.

While studying, you will engage with academic staff from the University who will teach at the Kaplan campus for specialised workshops, as well as provide online support and learning resources.

Throughout your programme, you will be at the forefront of innovation and technology, and will join a vibrant hub of forward-thinking professionals, academics and researchers as you take the next step in your professional engineering management career.

Upon graduating you will join our alumni network, which has a strong presence in Singapore. I wish you all the best for your studies and look forward to seeing you graduate.
Award Winning Private Education Provider In Singapore

Kaplan in Singapore is part of Kaplan Inc., one of the world’s most diverse education providers and is the largest subsidiary of Graham Holdings, formerly The Washington Post Company. In Singapore, Kaplan serves more than 30,000 learners from across 35 countries worldwide. With over 480 academic programmes for higher learning and professional certification courses for skills development, Kaplan provides opportunities for individuals to pursue lifelong learning.

JobsCentral Learning Training & Education Development (T.E.D.) Awards

2018 Best Private Education Institution
- Accountancy
- Banking & Finance
- Business Management
- Communications & Media
- Computer Science & IT
- Law
- Sales & Marketing
- Social Sciences

2017 Best Private Education Institution
- Accountancy
- Business Management
- Law
- Marketing
- Psychology

2016 Best Private Education Institution
- Business Management
- Communications & Media
- Computer Science & IT
- Marketing

BERG Icons of Learning 2017
- Winner of Best Private Education Institution in Singapore

EC-Council Global Awards
- ATC Circle of Excellence Award (Asia Pacific)
- Instructor Circle of Excellence Award (Asia Pacific) for our trainer, Belly Rachdianto
  - 2017
- Academia Circle of Excellence Award (Asia Pacific)
  - 2017

AsiaOne People’s Choice Awards
Top 3 Best Private Schools in Singapore
- 2013
- 2014
- 2015
- 2016

JobsCentral Learning and Rankings Survey
Preferred Private Education Institution
- 2010/2011
- 2011/2012
- 2012/2013
- 2013/2014

Registered with the Committee for Private Education (CPE), part of SkillsFuture Singapore (SSG)

Kaplan Higher Education Academy
Cert No. EDU-2-2023
Validity: 20/07/2019–19/07/2023
UEN: 199409389H
Validity: 20/05/2018–19/05/2022

Kaplan Higher Education Institute
Cert No. EDU-2-2125
Validity: 20/07/2019–19/07/2023
UEN: 198600044N
Validity: 17/08/2018–16/08/2022

1 Awarded to Kaplan in Singapore by JobsCentral Learning T.E.D. Awards.
2 Awarded to Kaplan Higher Education Academy.
3 Awarded to Kaplan Higher Education Institute.
4 Awarded to Kaplan in Singapore by BERG Icons of Learning 2017.
Kaplan Higher Education Academy & Kaplan Higher Education Institute

Today, thousands of students are enrolled in Kaplan Higher Education Academy and Kaplan Higher Education Institute in Singapore, pursuing full-time and part-time programmes respectively, that range from Diplomas to Bachelor’s and Master’s Degrees.

Through strategic collaborations with prestigious universities from Australia, Ireland and the UK, Kaplan offers career-oriented academic programmes designed to provide students with skills necessary to qualify them for employment and to meet the demands of the industry.

Disciplines available:

- Accounting, Banking & Finance
- Engineering
- Information Technology
- Business & Management
- Hospitality & Tourism Management
- Law & Criminology
- Communication & Media
- Education & Social Sciences
- Nursing & Health Services

Together, Kaplan Higher Education Academy and Kaplan Higher Education Institute form one of the largest private education institutions in Singapore, spanning more than 140,000 sqft across Kaplan City Campus @ Wilkie Edge and @ PoMo. The campuses are located in the heart of the city, all within walking distances from 6 MRT stations across major train lines. All our campuses are strategically located to provide students with convenience and conducive study environments, including state-of-the-art classrooms and computer laboratories, WIFI access, student lounges, a well-resourced library and food & beverage outlets on campus.

1 Refers to Degree programmes at Kaplan in Singapore.
2 Terms and conditions apply. Subject to bank's approval.
Ranked number one in Australia for quality education^ and with 100% of assessed research rated at or above world-class*, the University of South Australia is young, innovative and offers students the chance to gain real-world experience.

Focused on life beyond the classroom, the University offers a practical approach to teaching and learning. Degrees are designed with a strong professional emphasis and in partnership with the industry, giving students opportunities to gain practical skills and graduate career-ready.

The University collaborates with over 2,500 companies worldwide to provide students valuable networking and work opportunities including placements, internships and projects. Its graduates are the new professionals, global citizens at ease with the world and ready to create and respond to change.

[^2019 THE University Impact Rankings
 * 2018 Excellence in Research for Australia (ERA), 4-digit Fields of Research]
Engineering Degrees from the University of South Australia offer students a range of professional programmes that prepare them for rewarding careers in mechanical, mechatronic, civil and electrical engineering. The School of Engineering engages in leading-edge teaching, research training and fundamental applied research. It has a long standing commitment to outcomes-based research with focus on sustainability, energy and resource saving techniques, scientific and technological innovation for Australian manufacturing, and the generation, processing, transfer, conversion and control of energy and information. Students learn from highly acclaimed academic staff in a supportive and encouraging environment. Strong theoretical teaching and experience-based learning are combined to produce graduates who are prepared to meet the challenges of modern enterprise and solve complex world problems.
Professor Julie Mills commenced as Pro Vice Chancellor of the Division of Information Technology, Engineering and the Environment in April 2019. Prior to this, she was Head of the School of Natural and Built Environments (January 2015 – April 2019) and has also held a range of leadership positions including Associate Head of School, Programme Director of Civil Engineering and Head of School of Geoscience, Minerals and Civil Engineering. Julie is also a Fellow of Engineers Australia.

Before joining UniSA, Julie worked in the industry as a structural engineer and project manager on projects ranging from office and industrial buildings, power stations and shopping centres, to residential buildings. Since female engineers were very rare during this time, she broke new ground with regard to maternity leave, part-time work and job sharing. These experiences resulted in Julie’s extensive involvement in activism and research related to Women in Engineering. She was co-founder of the South Australian Women in Engineering group and Chair of the National Women in Engineering committee of Engineers Australia from 2004-6.

Julie’s diverse research interests include engineering education, gender studies and structural engineering. She has received several national competitive grants and supervised PhD students across these areas. Her current structural engineering research is focussed on the use of recycled materials as partial aggregate replacement in concrete, particularly the use of crumbed rubber from used tyres as partial replacement for natural sands and the potential application of this rubberised concrete in residential construction. She has authored numerous journal publications and co-authored two books. Julie is known nationally and internationally for her expertise in project-based learning and gender-inclusive curriculum. Her teaching has been rewarded with several national and university awards, the highlight being the National Teaching Excellence Award from the Australasian Association for Engineering Education.

Professor Duncan Campbell joined the University of South Australia as Head of School - Engineering in 2017. He was formerly a Professor in Robotics and Autonomous Systems at the Queensland University of Technology (QUT), and Director of the Australian Research Centre for Aerospace Automation (ARCAA). Duncan has 30 years of research leadership in control and automation with many industry collaborations. He is a thought leader in how cyber-physical-human systems and the digital transformation of production, product design and life cycle management can transform the industry and workforce. Duncan further considers how autonomous vehicles and systems can be integrated into everyday operations.

Duncan has served on the Board of the Australian Association for Unmanned Systems (AAUS), was Chair of the Australian and New Zealand regional group of the global CDIO collaboration in engineering education, President of the Australasian Association for Engineering Education (AAEE), and IEEE Queensland Section Chair of the Control Systems/Robotics and Automation Society Joint Chapter. Duncan formerly held positions at La Trobe University, Griffith University and Queensland University of Technology, along with many collaborations with international universities including sabbatical visits at both Massachusetts Institute of Technology (MIT) and Chalmers University of Technology in Sweden. The most long-standing collaboration is with IMT Atlantique (formerly Télécom Bretagne) in France. Apart from research collaboration on unmanned aircraft systems and advanced reconfigurable computing architectures, the collaboration has hosted 13 years of student and researcher mobility.

Associate Professor Sang-Heon Lee joined University of South Australia (UniSA) in 2000 as a research associate, after he completed his Master of Engineering Science Degree in Mechatronics at the University of New South Wales in 1995 and his PhD in Systems Engineering at the Australian National University in 1999. He is now Portfolio Leader of transnational programmes and Programme Director for Master of Engineering (Engineering Management) in the School of Engineering, UniSA. A. Prof. Lee is passionate about student engagement and learning, particularly for international student education in both onshore and transnational programmes. He has developed and managed 5 different transnational programmes with more than 5,000 students graduating under his guidance, and has published over 100 refereed international journals and conferences. His current research interests include machine vision systems, image processing, artificial intelligence and machine learning, supply chain management and intelligent manufacturing systems.
Graduates’ Testimonials

The general structure of all the modules was really enjoyable as we were constantly brainstorming and discussing different case studies. Learning the theory and academic study behind what happens day-to-day at work was really interesting, particularly Project Planning and Quality Management.

After I had completed the programme, I noticed an improvement in my perspective of the world and gained the confidence to move forward with my future career. The skills and experiences that I acquired throughout the programme have enabled me to develop better Management Skills. I am very proud of how I have applied my University studies in the work place to advance projects to the tendering stage.

I would highly recommend studying the Master of Engineering. It is hard work, but a great investment for your career and future. I would say “go for it”.

May Moe Thu
University of South Australia (2019)
On-campus Student

The Master of Engineering programme has provided me with a better understanding of the operations in an organisation. I have also learnt practical skills such as resource and project management, which usually takes a long time to learn on the job. Being able to demonstrate this knowledge at work has improved my career progression and allowed me to take on new responsibilities.

I found the courses to be well designed and delivered with practical examples and relevant assignments. The lecturers are encouraging and knowledgeable with years of academic and industry experience.

Shimul Noor
University of South Australia (2019)
On-campus Student

I am a strong believer of lifelong learning, so I was glad to take up the Master of Engineering programme to demonstrate my commitment to further my studies. The programme has helped me to further develop my skills and experience at work as well as making me feel much more confident and competent. Subsequently, I was promoted to a managerial role six months after graduating.

The numerous quizzes, tests and assignments designed to practically assist students to understand the courses and prepare for examinations were very beneficial.

I would encourage people who have the passion and enthusiasm to learn new knowledge and skills to study the Master of Engineering programme. You will be able to apply knowledge gained from the programme to your job and demonstrate how you can contribute with your newfound skills and knowledge. The best investment is to invest in yourself with the Master of Engineering programme. I am glad that I did!

Teng Lai Ngan
University of South Australia (2019)
On-campus Student
About the Master of Engineering (Engineering Management)

The Master of Engineering (Engineering Management) programme provides engineering management skills for future leaders in the industrial engineering sectors, equipping them with the skills and knowledge they need to strive in the ever-competitive global market.

The programme teaches essential principles and advanced practical skills in the areas of engineering management, covering operation management, project management, total quality management, enterprise resource planning, supply chain management, engineering economic analysis and production management. In addition, the programme provides students with opportunities to develop and apply those skills while integrating knowledge, to complete a practical industry project in their own topic of interest.

Specifically designed to provide a further education pathway for senior engineers who hold a Bachelor Degree qualification, relevant Graduate Certificate or Graduate Diploma, and are seeking further enhancement of their skills and knowledge in engineering management.

Why study the Master of Engineering (Engineering Management)

This Master's Degree closely aligns learning to professional practice. You will apply the theory and skills you develop to a practical industry project in your own area of interest, or to a minor thesis related to a research institution affiliated with the School of Engineering.

You will gain advanced knowledge and skills in operations management, total quality management, supply chain management, enterprise resource planning, lean six sigma and project management with engineering research methodologies.

Incorporating strong theoretical teaching, experience-based learning and contemporary facilities, we offer the ideal academic blend for graduates to meet the challenges of modern enterprise. Learning is supported by world-class engineering research and industry experience to help advance your expertise and career opportunities.

Programme Objectives

- Build an advanced understanding of principles, current practice, and technologies within relevant engineering disciplines
- Develop a strategic approach to the management of engineering organisations
- Develop intellectual and professional independence through information literacy and research skills in doing project work
- Integrate knowledge, research and problem-solving skills to complete an industry based research project
- Enhance your ability to integrate and apply the developed knowledge and skills to identify, evaluate, justify and solve engineering and technology-related problems
- Enhance your ability to work independently and in teams
- Demonstrate an understanding of engineering in an international global environment with specific understanding of relevant cultural, social and ethical issues
- Use appropriate communication, teamwork, and leadership skills
There are a wide range of career options for highly qualified engineers and project managers, with employment opportunities in engineering consulting firms, construction companies, and local, state and federal governments. You could consider:

- **Energy Manager**: monitoring and reducing energy usage; understanding where and how energy is used; highlight energy reduction across business, projects and work sites
- **Engineering Operations Manager**: supervising and leading teams of engineers, scientists and technicians who work on projects; overseeing production and quality control; directing operations, testing and maintenance; planning and scheduling, client consulting, budgetary responsibilities
- **Quality Assurance Manager**: working with management and staff to establish procedures and quality standards and to monitor these against agreed targets; writing management and technical reports; determining training needs; promoting change and improvement in performance and quality
- **Business Development Engineer**: developing and maintaining excellent client relationships; working with new and existing clients to create new business and identify new markets; proposing business ventures, providing project details, writing business proposals, meeting business revenue targets
- **Project Manager**: developing skills to identify project needs, initiation of project, scheduling, budgeting, resource management and project monitoring and control

### Learning Cycle

Students will attend a combination of lectures, tutorials and workshops in the programme and there are no weekend classes. The submission of coursework for units and examinations will take place at the end of each term. Examinations are normally scheduled to take place on a Saturday. This programme may be completed in 15 months.

The learning cycle is for reference purposes only. The University of South Australia and Kaplan reserve the rights to change, amend or modify all or part of the learning cycle, which includes the schedule of the lessons, at anytime without prior notice.

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<td>Engineering Research Practice</td>
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<tr>
<td>MFET 5011</td>
<td>Engineering Economic Analysis</td>
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<tr>
<td>MFET 5037</td>
<td>Enterprise Resource Planning</td>
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<tr>
<td>MFET 5034</td>
<td>Minor Thesis 1 (Eng)</td>
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<tr>
<td>MFET 5024</td>
<td>Operations Management Systems</td>
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<tr>
<td>MFET 5043</td>
<td>Supply Chain Management G</td>
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<td>MFET 5035</td>
<td>Minor Thesis 2 (Eng)</td>
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<tr>
<td>MFET 5053</td>
<td>Lean Six Sigma</td>
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<tr>
<td>MFET 5022</td>
<td>Total Quality Management</td>
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<tr>
<td>MFET 5040</td>
<td>Project Planning and Control G</td>
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### Assessments

The assessment includes but is not limited to any combination of class participation, written assignments, projects or examinations. Assessment methods may vary according to individual module requirements.
Unit Outline

Master of Engineering (Engineering Management)

ENGINEERING RESEARCH PRACTICE
The focus of this module is to provide students the skills to conduct their final project in the Minor Thesis 1 and Minor Thesis 2 modules. It will cover how students could identify the topic of the project of their interests within their current workplace, how to conduct literature reviews, avoiding plagiarism, comprehending ethics issues and intellectual property protection, as well as thesis writing skills.

ENGINEERING ECONOMIC ANALYSIS
Develop knowledge and skills in engineering economic analysis through the application of major tools for project investment, evaluation and decision making in engineering management. Understand the principles of financial accounting and planning, analyse different product costs in engineering and manufacturing, apply appropriate techniques for measuring the worth of project investments, and conduct effective decision analysis in the presence of uncertainties, risks, or multiple attributes.

ENTERPRISE RESOURCE PLANNING
This module will introduce you to a comprehensive coverage of ERP topics and the corresponding SAP ERP modules. Topics include Introduction of ERP, ERP Implementation, Sales and Distribution (SD), Production Planning and Execution (PP), Materials Management (MM), Controlling (CO), Warehouse Management (WM) and Enterprise Asset Management (EAM).

SUPPLY CHAIN MANAGEMENT
Provides knowledge and analysis of the major concepts of supply chain structure and the strategies and tools for planning, modelling, simulation, analysis, design and development of supply chain systems. Develop the ability to analyse and design a supply chain system and its various key components, to produce the most desirable influence on the performance of a supply chain and overall system performance.

OPERATIONS MANAGEMENT SYSTEMS
Students are provided with knowledge and skills in operations management, primarily in manufacturing companies. On completion of this module, students should be able to understand the basic principles in operations management, develop a strategic framework for competitiveness, apply appropriate techniques in the planning and management of operations covering process selection and facility layout selection processes, work design and measurements, aggregate schedule and master scheduling and principles of Just-In-Time and lean operations.

MINOR THESIS 1 (ENGINEERING)
Students have to demonstrate their capability in solving real-world problems in this module. Each student has to define a research engineering project, prepare a project proposal, carry out the research under the supervision of both academic and industrial supervisors, and write and submit 50% of a high quality thesis at the end of this course.
Unit Outline

MINOR THESIS 2 (ENGINEERING)
This is a continuation of Minor Thesis 1 (Engineering). Each student is required to complete the engineering research project, submit the project thesis for examination, and to present the project outcomes to academic examiners at the end of the module.

LEAN SIX SIGMA
Presents the use of Six Sigma through analysing its concepts, tools and processes and how they can be applied in improvement and design projects. Integrates Lean Six Sigma to demonstrate how these combined techniques deliver robust solutions to industrial challenges. Lean Six Sigma is contextualised within a case study and exposes students to recent research into Lean Six Sigma in supply chain, operations and engineering management.

TOTAL QUALITY MANAGEMENT
The module will provide an insight into issues of global competitiveness and the role of management leadership, quality planning, company culture, quality tools and systems, teamwork and communications, all integrated to form the overall organisational response to successfully face today’s business challenges for the manufacturing industry and services.

PROJECT PLANNING AND CONTROL G
This module introduces students to the major tools in project planning, management and control. It aims to provide students with the necessary knowledge and skills to be able to manage the implementation of industrial projects in practice. It covers project initiation process, project screening and evaluation using inputs from manufacturing strategy and cost evaluations. Organisational structure and work breakdown structure, scheduling and planning, budgeting, resource management, project control and monitoring, and project termination. The procedures and concepts introduced in this module are particularly appropriate for industry projects. As part of the module’s contents, efforts will be made to identify how the techniques can be adapted for smaller projects.
Students who successfully complete the programme will be awarded the prestigious Master of Engineering (Engineering Management) from the University of South Australia. The Degree will be the same as that awarded to on-campus students of the University.

Upon completion of the programme, graduates are eligible to use the following post nominals to indicate their qualification:

- Master of Engineering (Engineering Management)- MEng
Singapore Alumni Chapter

The University of South Australia, Singapore Alumni Chapter was formally established eleven years ago to support the University in achieving its mission and encourage graduates to be actively involved in its life and growth. Built on a strong foundation of graduates, the chapter offers continuing access to a range of activities for professional, personal and career development, enabling alumni to stay connected to the networks and the resources of the University.

The Chapter also serves as a platform for local alumni to network and create opportunities for business, professional and social development. A series of events and activities are held throughout the year, culminating in the Annual Reunion Dinner attended by alumni, special guests and senior members of the University.

The University of South Australia supports a number of discipline interest groups, country-specific networks and Alumni Chapters that offer a variety of professional and casual networking opportunities.

Career Fair

The annual Kaplan Career Fair is the biggest employment event held on campus. The Fair offers an opportunity for students to meet employers face-to-face, learn about career paths and job opportunities available to you throughout your programme and beyond. Students can enhance their employability and hone resume writing and interview skills through career coaching workshops.
Application & Fees Schedule

Fees Schedule

Please refer to the insert for the information on:
- Tuition Fee
- Refund Policy
- Non-tuition Fee
- EduTrust Certification

For more information, please contact our programme consultant or email to info.sg@kaplan.com

Entry Requirements & Application

Applicants to the Master of Engineering (Engineering Management) programme are required to have one of the following:

A Bachelor Degree in Engineering, Science or Technology from a recognised higher education institution

OR

A Graduate Certificate or Graduate Diploma in Engineering from a recognised higher education institution

English Language: IELTS of 6.5 or equivalent

Work Experience

As this is an accelerated programme, students must have 3 years of relevant work experience.

Admission to the Programme

Potential candidates for the Master of Engineering (Engineering Management) must demonstrate a high motivation to undertake an intensive programme. A blending of diverse business backgrounds creates special challenges and opportunities for participants to benefit from the experience and perspective of others.

The final decision for admission rests with the University.

Study Loans

Study loans are available with most banks and financial institutions. Interested candidates may contact:

Maybank: 1800 629 2265 www.maybank.com.sg
OCBC Bank: 1800 363 3333 www.ocbc.com.sg

Only applicable for local students.

Closing Dates

Deadlines for applications can be confirmed with the course consultant. Potential students are advised to apply at least 2 weeks before the commencement of each intake. Finalised start dates and timetables are dependent on approval by the University. This approval is based on a minimum class size.