# ENGINEERING & THE BUILT ENVIRONMEN

M A L A Y A

**University of** 

Sunderland

**Articulation pathway** for SEGi-Sunderland Engineering graduates to University Malaya Engineering Masters' programme

Research and innovation focused

Graduate with additional certificates and affiliations

Strong industrial collaboration

SEGi **University &** Colleges

In collaboration with















Quality education accredited and assured by the Malaysian Ministry of Education and other organisations



Internal processes in compliance with international standards

ISO 9001:2015 Certified



Cert no: MY14/05009

Cert no: MY14/01588

# SEGIUNIVERSITY & COLLEGES

Established for more than 46 years, SEGi has equipped graduates from diverse backgrounds with exceptional foundations for career achievement and personal success.

SEGI COLLEGE

KOLEJ

SEGi first opened its doors as Systematic College in 1977 in the heart of Kuala Lumpur's commercial district, offering professional qualifications. Since then, SEGi has experienced significant growth by adapting and catering to an increasing demand for higher academic and professional qualifications in Malaysia.

Today, SEGi is one of the largest private higher education providers in Malaysia and serves more than 18,000 students through its five major campuses located in Kota Damansara, Kuala Lumpur, Subang Jaya, Penang and Kuching. With programmes tailored to meet both industry and student needs, SEGi graduates have easily found employment and many have gone on to become leaders of their respective industries.

# EXPLORE THE WORLD OF ENGINEERING





The QS Stars<sup>™</sup> rating system has been operated by the QS Intelligence Unit, the independent compiler of the QS World University Rankings<sup>®</sup> since 2004. The system evaluates universities across various important performance indicators as set against pre-established international standards. By covering a broader range of criteria than any world ranking exercise, QS Stars<sup>™</sup> shines a light on both the excellence and the diversity of the rated institution.









Employability





Academic Development





Bachelor of Medicine and Bachelor of Surgery (MBBS)





Inclusiveness

#### University of Greenwich (UoG), UK



Modestly founded in 1890 as Woolwich Polytechnic, the University of Greenwich (UoG) has risen in the ranks since it gained university status in 1992. A leader in the educational arena, the university has three campuses in South East London and Kent, and is a strong proponent of progressive learning, as is proven by its modern hi-tech facilities. Its 1,200 programmes include Law, Nursing, Business, and Engineering.

Acknowledged the world over as a leading provider of higher education according to the 2017 Teaching Excellence Framework (TEF), UoG is also the proud recipient of The Queen's Anniversary Prize for Higher and Further Education 2015, an award recognising the innovative research and development carried out by Greenwich's Natural Resources Institute within the Faculty of Engineering and Science.

- QS World Ranking 701-750
- Times Higher Education World Ranking 601-800
- #1 Transnational University in UK (Over 17,000 students in oversea campuses all around the world)
- Over 50% of Graduates received First Class Honours in the last 5 years
- Awarded SILVER STATUS by Teaching Excellence Framework (TEF)



UNIVERSITI M A L A Y A

#### University of Sunderland (UoS), UK

Established in 1901 as Sunderland Technical College, the University of Sunderland (UoS) is greatly praised as a prescient and innovative University with exemplary standards of teaching, research and support. Located in Sunderland in the North East of England, it gained its university status in 1992 and has since gained a reputation as a research-active university.

The University of Sunderland prides itself on holistic academic programmes as integral to its commitment of excellence to its students and to producing well-rounded graduates. The Guardian ranks its Hospitality, Event Management and Tourism programme as the 4th best in the country, while Nursing is ranked 5th best. Other highly ranked majors in the Guardian league tables are Business, Management and Marketing, Accounting and Finance, Mechanical Engineering, and Fashion and Textiles. Also, it was named University of the Year for Social Inclusion by The Times and Sunday Times Good University Guide 2021.

- QS 5 Stars (2019) in Teaching, Employability, Internationalisation, Inclusiveness & Outstanding Facilities
- Awarded SILVER STATUS by Teaching Excellence Framework (TEF)
- · Recognised by the UK Government and the British Council for innovative international activity
- UK's top 5 providers of transnational education
- · Shortlisted for the Times Higher Education University of the Year Award

#### University Malaya (UM), Malaysia



The University of Malaya, as it is known today, was officially recognised as a national university on 1 January 1962. Its initial objective to provide tertiary education to the people of Malaysia has successfully produced leaders and intellectuals in a range of disciplines. In line with the myriad of educational transformations that Malaysia has been undergoing, UM has continually stepped up its efforts to meet its vision of becoming an internationally renowned institution of higher learning in research, innovation, publication, and teaching.

- Ranked 59th among the world's top 1,000 universities in the Quacquarelli Symonds World University Rankings (QS-WUR)
- 91 st in the Academic Reputation indicator which measures the opinions of over 94,000 faculty across the world
- Shortlisted for the 1st Most Sustainable University in Asia & 6th in the World out of 113 institutions



# Bringing the world to you PARTNER UNIVERSITIES









### University of Central Lancashire (UCLan)

The University of Central Lancashire is one of the largest universities in the UK, hosting about 25,000 students. Located in Preston, a city in Lancashire, northern England, the public university was founded as the Institution for the Diffusion of Knowledge in 1828 and attained university status in 1992.

Imbued with a celestial-sounding motto – "Ex solo ad solem", which translates as "From the Earth to the Sun", the university's academic portfolio includes over 400 undergraduate programmes and 200 postgraduate courses.

Hailed for its high student satisfaction in the recent International Student Barometer survey, UCLan's impressive reputation as a regional economy powerhouse testifies over 1,000 students and graduates who have started a business or embarked on self-employment.

- **Top 7% of universities worldwide** in the Centre for World University Rankings 2021-22.
- Leading UK university for entrepreneurship (based on the number of start-up businesses they have incubated that are still active after three years of trading) in the HEBCIS 2016-17 survey
- Top university in the North of England for producing start-up businesses; **ranked 5th** overall in the UK (Tide, 2021)
- Ranked 108th in the Times University Guide 2022
- Ranked 104th in the Guardian University Guide 2023

# **STUDY ROUTE**



#### **Credit Transfer**

Your previous studies and qualifications may earn you credits towards your diploma or degree. The award of credits is given on the basis of subject mapping and grades achieved. The maximum transferable credits you may earn for a previous academic qualification could be 50% of the total credits for the Bachelor's degree. Work experience, MOOCs and other training certifications may earn you credit transfers of up to 30%. All credit transfers are subject to approval by the Senate or Academic Board.

#### MC Micro-credential

We break it down to build you up. SEGi's Micro-credentials are unbundled from accredited qualifications, offering the modern learners a tempting, tantalising buffetstyle learning model. While traditional diplomas or degrees are well-structured and solid, SEGi's Micro-credentials offer learners the choice of ultimate flexibility and customisation, empowering learners to select only what they want to consume, experience and learn. Through our innovative curriculum framework, these unbundled courses delivered through micro-credentials can then be easily rebundled into accredited and recognised qualifications.

# **PROGRAMME MATRIX**

Programme	Awarding Institution	Entry Requirements	Campus
Bachelor of Civil Engineering with Honours KD (R2/526/6/0070](06/26](MQA/FA9354)	SEGi University & University of Central Lancashire, UK (Double Degree)	<ul> <li>STPM - 2 principal passes including Mathematics and one relevant Science subject</li> <li>A-Level - 2 principal passes including Mathematics and one relevant Science subject</li> <li>UEC - 5 Bs MUST include Mathematics and one relevant Science subject</li> <li>Foundation Studies - CGPA at least 2.00 in relevant field from institute of higher education recognised by the Malaysian Government</li> <li>Diploma or other relevant field with minimum of CGPA 2.0 from higher education institute recognised by the Malaysian Government</li> <li>Other - Equivalent qualification recognised by Malaysian Government</li> </ul>	Kota Damansara
Bachelor of Mechanical Engineering with Honours KD (K2/521/6/0146)(10/27)(MGA/FA12419)		<ul> <li>STPM - 2 principal passes including Mathematics and one relevant Science subject</li> <li>A-Level - 2 principal passes including Mathematics and one relevant Science subject</li> <li>UEC - 5 Bs MUST include Mathematics and one relevant Science subject</li> <li>Foundation Studies - CGPA at least 2.00 in relevant field from institute of higher education recognised by the Malaysian Government</li> <li>Diploma or other relevant field with minimum of CGPA 2.00 from higher education institute recognised by the Malaysian Government</li> <li>Other - Equivalent qualification recognised by Malaysia Government</li> </ul>	
Bachelor of Electrical and Electronics Engineering with Honours KD (82/523/6/0060)(10/28)(MQA/FA1882)		<ul> <li>STPM - 2 principal passes including Mathematics and one relevant Science subject</li> <li>A-Level - 2 principal passes including Mathematics and one relevant Science subject</li> <li>UEC - 5 Bs MUST include Mathematics and one relevant Science subject</li> <li>Foundation Studies - CGPA at least 2.00 in relevant field from institute of higher education recognised by the Malaysian Government</li> <li>Diploma or other relevant field with minimum of CGPA 2.0 from higher education institute recognised by the Malaysian Government</li> <li>Other - Equivalent qualification recognised by Malaysian Government</li> </ul>	
Bachelor of Chemical Engineering with Honours KD (R2/524/6/0011)[06/29][MQA/FA1275]		<ul> <li>STPM - 2 principal passes including Mathematics and one relevant Science subject</li> <li>A-Level - 2 principal passes including Mathematics and one relevant Science subject</li> <li>UEC - 5 Bs MUST include Mathematics and one relevant Science subject</li> <li>Foundation Studies - CGPA at least 2.00 in relevant field from institute of higher education recognised by the Malaysian Government</li> <li>Diploma or other relevant field with minimum of CGPA 2.00 from higher education institute recognised by the Malaysian Government</li> <li>Other - Equivalent qualification recognised by Malaysian Government</li> </ul>	

# **PROGRAMME MATRIX**

Programme	Awarding Institution	Entry Requirements	Campus
Bachelor of Science (Hons) Quantity Surveying KD (R2/526/6/0028)[03/30](MQA/FA1239)	SEGi University	<ul> <li>STPM - 3 principal passes including Mathematics subject</li> <li>A-Level - 3 principal passes including Mathematics subject</li> <li>UEC - 5 Bs MUST include Mathematics subject</li> <li>Foundation Studies - CGPA at least 2.50 in relevant field</li> <li>Diploma - min. CGPA 2.00 for first year entry and 2.67 for second year direct entry</li> <li>Other - Equivalent qualification recognised by Malaysia Government</li> <li>Additional Requirements</li> <li>Local students MUST also have Credit in Mathematics in SPM</li> </ul>	Kota Damansara
Bachelor of Science (Hons) Architecture KD (N/581/6/0092)(05/23)(MQA/PA8425)		<ul> <li>STPM - 2 principal passes AND Credit in Bahasa Malaysia &amp; Mathematics in SPM</li> <li>A-Level - 2 principal passes AND Credit in Mathematics in SPM</li> <li>UEC - 5 Bs MUST include Mathematics subject</li> <li>Foundation Studies - min. CGPA 2.00 AND Credit in Mathematics in SPM or equivalent</li> <li>Diploma or other relevant field with minimum of CGPA 2.00 from higher education institute recognised by the Malaysian Government</li> <li>Other - Equivalent qualification recognised by Malaysia Government</li> <li>Additional Requirements</li> <li>Passed in Art/ Technical Drawing subject in SPM or equivalent OR Passed portfolio assessment interview for those who failed or did not take Art subject</li> </ul>	
Bachelor of Arts (Honours) in Interior Architecture KD (R/581/6/0027)(05/25)(MQA/FA1340)		<ul> <li>STPM - 2 principal passes</li> <li>A-Level - 2 principal passes</li> <li>UEC - 5 Bs</li> <li>Foundation Studies - CGPA at least 2.00 in relevant field from institute of higher education recognised by the Malaysian Government</li> <li>Diploma or other relevant field with minimum of CGPA 2.00 from higher education institute recognised by the Malaysian Government</li> <li>Other - Equivalent qualification recognised by Malaysia Government</li> <li>Additional Requirements</li> <li>Passed in Art/ Technical Drawing subject in SPM or equivalent OR Passed portfolio assessment interview for those who failed or did not take Art subject</li> </ul>	

# **PROGRAMME MATRIX**

Programme	Awarding Institution	Entry Requirements	Campus
BEng (Hons) Automotive Engineering (3+0) sj (r2/0715/6/0114) (05/28) (MQA/FA2376)	University of Sunderland, UK	<ul> <li>UEC with 5 credits</li> <li>STPM with Grade C in 2 subjects</li> <li>A-Level with passes in 2 subjects</li> <li>Matriculation / Foundation or equivalent</li> <li>SAM / AUSMAT with min ATAR 60</li> <li>Related SKM Level 5</li> <li>Related Diploma</li> <li>MQA-APEL T6</li> </ul> Additional Requirements Credit in Maths and Science at SPM / O-Level or equivalent	Subang Jaya
BEng (Hons) Mechanical Engineering (3+0) SJ (R3/521/6/0013) (05/27) (A 7814) PG (R2/521/6/0044) (12/27) (MGA/FA2642) BEng (Hons) Electronics and Electrical Engineering (3+0)			Subang Jaya Penang
SJ (R3/523/6/0290) (05/27) (A7813) PG (R2/523/6/0097) (12/27) (FA2482)			
Diploma in Electrical and Electronics Engineering SJ (R2/520/4/0091) (11/27) (MGA/FA 2829) PG (R2/523/4/0103) (01/28) (MGA/FA 2301)	SEGi College	<ul> <li>SPM / O-Level or equivalent with 3 credits</li> <li>UEC with 3 credits</li> <li>Related SKM Level 3</li> <li>Related Certificate or equivalent</li> <li>MQA-APEL T4</li> </ul>	Subang Jaya Penang
Diploma in Mechanical Engineering SJ (R3/521/4/0014) (03/27) (A 7749)		Additional Requirements Credit in Maths and Science at SPM / O-Level or equivalent	- Subang Jaya
Diploma in Interior Architecture SJ (R3-TVET/0212/4/0001)(11/27)(A7946)		<ul> <li>SPM / O-Level or equivalent with 3 credits</li> <li>UEC with 3 credits</li> <li>Related SKM Level 3</li> <li>Related Certificate or equivalent</li> <li>MQA-APEL T4</li> </ul>	
Foundation in Science KD (R2/010/3/0356)(07/25)(MQA/A4432) SJ (R2/000/3/0021) (04/23) (A7755)	SEGi	<ul> <li>SPM/O-Level - min. 5 credits including Mathematics and 2 Science subjects</li> <li>UEC - min. B in 3 subjects including Mathematics &amp; 2 Science subjects</li> <li>Additional Requirements</li> <li>Credit in Maths and 2 Sciences at SPM / O-Level or equivalent</li> </ul>	Kota Damansara Subang Jaya
Foundation in Arts si (R2/010/3/0541) (07/26) (MQA /FA 0452) kD (R2/010/3/0406)(07/26)(MQA/FA0193)		<ul> <li>SPM/O-Level or equivalent – min. 5 credits</li> <li>UEC – min. B in 3 subjects</li> </ul>	Kota Damansara Subang Jaya

# DESIGNED & DELIVERED BY ENGINEERS FOR ENGINEERS

- Taught by professional engineers registered with BEM
- Lecturers with consultancy & research experience
- Dual award option with UCLAN

# **BACHELOR OF CIVIL ENGINEERING WITH HONOURS**

KD (R2/526/6/0070)(06/26)(MQA/FA9354)

### **Programme Modules**

#### Year 1

- Engineering Mathematics I
- Statics and Dynamics
- Construction Materials
- Engineering Drawing
- Soil Mechanics I
- Programme Methodology & Problem Solving
- Engineering Mathematics II
- Fluid Mechanics
- Mechanics of Materials
- Engineering Surveying

#### Year 2

- Construction Technology
- **Engineering Statistics**
- Structural Analysis I
- Hydraulics
- Soil Mechanics II
- Computational and Numerical Analysis
- Construction Project Management
- Hydrology
- Estimating & Costing of Buildings
- Building Information Modelling (BIM)
- Entrepreneurship

#### Year 3

- Design of Reinforced Concrete Structures I
- Highway Engineering
- Structural Analysis II
- Geotechnics
- Design of Steel and Timber Structures
- Design of Reinforced Concrete Structures II
- Water Resources & Supply Engineering
- Engineering Applications and Analysis
- **Engineers & Society**
- **Conceptual Design**
- Industrial Training (12 weeks)

#### Year 4

- Environmental Management & Technology
- Safety & Risk Engineering
- Foundation Design
- Integrated Project
- Project and Research Methods
- Traffic and Transportation Engineering
- Hydraulic Structures (Elective)
- Design of Earth Retaining Structures (Elective)
- Advanced Reinforced Concrete Design (Elective)
- Concrete Technology (Elective)
- Design of Steel Structures II (Elective)

#### MPU

- Falsafah dan Isu Semasa
- Penghayatan Etika & Peradaban (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Effective Listening
- Bahasa Kebangsaan A
- (Local students without credit in BM in SPM)
- Co-curriculum: Sustainability Thinking







# **Central Lancashire**

### SUSTAINABLE GOALS

- 6. Clean Water And Sanitation
- 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production 13. Climate Action

#### 9 PILLARS OF TECHNOLOGI-CAL ADVANCEMENT

- A. Advanced Robotics
- C. Horizontal & Vertical Integration
- D. Industrial Internet of Things
- H. Supply Chain



### **Career Opportunities**

As civil engineers, your career opportunities are vast and varied, depending on your area of specialisation and interest. Your potential employers include local and international consulting firms, construction companies and research institutions, as well as all levels in government.

# BE AT THE FOREFRONT OF IR4.0 AND BEYOND

Lecturers with consultancy & research experience

- World-class facilities
- Dual award option with UCLAN

# BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS

KD (R2/521/6/0146)(10/27)(MQA/FA12419)

### **Programme Modules**

#### Year 1

- Engineering Mathematics 1
- Fundamental Engineering Mechanics
- Engineering Drawing
- Engineering Materials
- Electrical and Electronic Circuits and Applications
- Engineering Mathematics 2
- Programming in C++
- Advanced Engineering Drawing
- Engineering Mechanics
- Thermodynamics

#### Year 2

- Engineering Statistics
- Manufacturing Processing & Technology
- Fluid Mechanics
- Solid Mechanics
- 3D Engineering Design and Modelling
- Computational and Numerical Analysis
- Measurement and Instrumentation
- Design of Machine Elements
- Heat Transfer
- 3D Engineering Design Analysis

#### Year 3

- Manufacturing Systems Design
- Advanced Fluid Mechanics
- Advanced Solid Mechanics
- Integrated Design Project I
- Vibrations
- Engineers and Society
- Advanced Thermodynamics
- Advanced Engineering Materials
- Electrical Machines
- Integrated Design Project II
- Entrepreneurship
- Industrial Training (12 weeks)

#### Year 4

- Final Year Project
- Project Management, Planning and Control
- Safety and Risk Engineering
- Finite Element Analysis
- 3D Printing Technology (Elective)
- Thermal Management in Product Design (Elective)
  - Computational Fluid Dynamics (Elective)
- Control and System Engineering
- Environmental Management and Technology
- PLC & SCADA (Elective)
- Heat, Ventilation & Air Conditioning (HVAC) (Elective)
- Advanced Manufacturing Technology (Elective)

#### MPU

- Falsafah dan Isu Semasa
- Penghayatan Etika & Peradaban (Local students)
  - Bahasa Melayu Komunikasi 2 (International students)
- Effective Listening
- Bahasa Kebangsaan A
- (Local students without credit in BM in SPM)
- Co-curriculum: Sustainability Thinking



Double Degree



### SUSTAINABLE GOALS

- 6. Clean Water And Sanitation
- 7. Affordable And Clean Energy
- 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- Sustainable Cities And Communities
   Responsible Consumption And Production
- 13. Climate Action

#### 9 PILLARS OF TECHNOLOGI-CAL ADVANCEMENT

- A. Advanced Robotics
- B. Simulation & Augmented Reality
- C. Horizontal & Vertical Integration
- D. Industrial Internet of Things G. Additive Manufacturing
- I. Big Data Analytics



#### **Career Opportunities**

As graduates of the Mechanical Engineering, you will have the necessary knowledge and skills to play a major role in design, consultancy, management, and manufacturing in developing sustainable energy solutions and fighting climate change. Mechanical engineers are highly demanded in industries such as aerospace, automotive, renewable energy, and more.

# BACHELOR OF ELECTRICAL & ELECTRONICS ENGINEERING WITH HONOURS

KD (R2/523/6/0060)(10/28)(MQA/FA1882)

### **Programme Modules**

#### Year 1

- Engineering Mathematics I
- Circuits and Signals I
- Digital Electronics I
- Engineering Drawing
- Laboratory Investigations I
- Communication System
- Engineering Mathematics II
- Circuits and Signals II
- Analogue Electronics I
- Digital Electronics II
- Entrepreneurship Development
- Laboratory Investigations II

#### Year 2

- Engineering Statistics
- Programming in C ++
- Analogue Electronics II
- Electromagnetic Fields and Waves
- Measurement and Instrumentation
- Laboratory Investigations III
- Computational and Numerical Analysis
- Control Systems
- Power Electronics
- Microprocessor
- Environmental Management & Technology
- Laboratory Investigations IV

#### Year 3

- Computer Architecture
- Engineers and Society
- Electrical Power Generation
- Digital Signal Processing
- Electrical Machines & Drives
- Integrated Design Project I
- Embedded System
- Power System Analysis
- Project Management, Planning and Control
- Design of Electrical and Protection System
- Integrated Design Project II
- Industrial Training (12 weeks)

#### Year 4

- Electrical Energy Utilisation
- Electronic Drives & Application
- Safety & Risk Engineering
- Energy Conversion (Elective)
- Advanced Microprocessor (Elective)
- Final Year Project
  - High Voltage Engineering
- Electronics System Analysis and Design
- PLC & SCADA (Elective)
- Electrical Installation and Practices (Elective)

#### MPU

- Falsafah dan Isu Semasa
- Penghayatan Etika & Peradaban (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Effective Listening
- Bahasa Kebangsaan A
- (Local students without credit in BM in SPM)
- Co-curriculum: Sustainability Thinking
- Personal Health Management



Double Degree



### SUSTAINABLE GOALS

- 6. Clean Water And Sanitation
- 7. Affordable And Clean Energy
- 8. Decent Work And Economic Growth 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action

#### 9 PILLARS OF TECHNOLOGI-CAL ADVANCEMENT

- A. Advanced Robotics C. Horizontal & Vertical Integration
- D. Industrial Internet of Things
- G. Additive Manufacturina
- I. Big Data Analytics



#### **Career Opportunities**

As graduates of the Bachelor of Electrical & Electronics Engineering with Honours programme, you will have a wide choice of careers in sectors including IoT, robotics & Automation, Control & Instrumentation, Electric Power utilities, and Renewable Energy industry.

# DEGREE WITH SPECIALIZATION FOR EXPERTS OF THE FUTURE

 UCLAN is ranked 104th in the Guardian University Guide 2023
 Dual award option with UCLAN
 4 Electives to choose from for specialisation

# **BACHELOR OF** CHEMICAL ENGINEERING WITH HONOURS

KD (R2/524/6/0011)(06/29)(MQA/FA1275)

### **Programme Modules**

#### Year 1

- Mass and Energy Balances
- Physical and Organic Chemistry
- Engineering Mathematics I
- Engineering Drawing
- Material Science
- Chemical Engineering Laboratory I
- Fluid Mechanics
- Thermodynamics
- Strength of Materials
- Engineering Mathematics II •
- Project Year I •
- Chemical Engineering Laboratory II •

#### Year 2

- Heat and Mass Transfer
- Separation Processes I
- Computational and Numerical Analysis
- Computer Aided Chemical Engineering
- Electrical Technology •
- Chemical Engineering Laboratory III •
- . Chemical Engineering Thermodynamics
- Particle Technology
- Separation Processes II
- **Engineering Statistics**
- Chemical Engineering Laboratory IV
- Project Year II

#### Year 3

- Process Control and Instrumentation
- Separation Processes III
- Chemical Reaction Engineering
- Environmental Management and Technology
- Chemical Engineering Laboratory V
- **Biochemical Engineering Principles**
- Chemical Process Safety
- Project Management and Economics
- Transport Phenomena
- Engineers and Society •
- Project Year III •
- Industrial Training (12 weeks)

#### Year 4

- Process and Plant Design
- Design Project I
- Research Methodology
- Entrepreneurship
- Fuel and Energy Utilization
- Safety & Risk Engineering
- **Research Project**
- Design Project II
- Water and Wastewater Engineering (Elective)
- Bio-separation: Recovery Processes (Elective)
- Solid Waste Engineering (Elective)
- Bioreactor Engineering Design (Elective)

#### MPU

- Penghayatan Etika dan Peradaban (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Falsafah dan Isu Semasa
- Effective Listening
- Bahasa Kebangsaan A
- (Local students without credit in BM in SPM)
- Pengurusan Ko-Kurikulum
- Personal Health Management





### SUSTAINABLE GOALS

- 6. Clean Water And Sanitation
- 7. Affordable And Clean Energy 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action

### 9 PILLARS OF TECHNOLOGI-CAL ADVANCEMENT

- C. Horizontal & Vertical Integration
- D. Industrial Internet of Things
- F. Cloud
- G. Additive Manufacturing H. Supply Chain
- I. Big Data Analytics



AY NOTHING UNTIL YOU GRADUATE"

#### **Career Opportunities**

Chemical engineering offers a broad range of career opportunities in a variety of sectors: Oil & Gas, Chemical Industries, Food & Beverages, Environmental & Sustainable Development, Energy Management, Manufacturing, Pharmaceutical/healthcare and Semiconductor industries.

# SUSTAINABLE INNOVATIONS FOR A BETTER TOMORROW THROUGH CHEMICAL ENGINEERING

Incorporation of SDGs & ESG focused principles in chemical engineering syllabus, which includes SDG 6, 7, 8, 9, 11, 12 & 13. Comprehensive exposure to industrial and IR4.0 driven projects, guided by external industry professional engineers Programme fully accredited by BEM

Double Degree

# **EXCELLENCE** & QUALITY RECOGNIZED **BY THE INDUSTRY**

- Fully accredited by the Board of Quantity Surveyors Malaysia (BQSM) Royal Institution of Chartered Surveyors UK (RICS) & Pacific Association of Quantity Surveyors (PAQS)
- Focused on critical analytical skills & value engineering
- Taught by lecturers with industry experience

# **BACHELOR OF SCIENCE (HONS)** QUANTITY SURVEYING

KD (R2/526/6/0028)(03/30)(MQA/FA1239)

### **Programme Modules**

#### Year 1

- Construction Materials
- Building Construction I
- Building Services I
- Basic Drawing and AutoCAD
- Legal Studies I
- Basic Architectural and Engineering Design
- Introduction to Measurement of Building Works
- **Building Construction II**
- **Building Services II**
- Legal Studies II
- Principles of Economics
- Geomatic Engineering

#### Year 2

- Measurement of Building Works I
- Tendering and Estimating
- Quantity Surveying Practice I
- Legal Studies III
- Construction Economics I
- Measurement of Building Works II
- Quantity Surveying Practice II
- Information Communication Technology (ICT)
- Civil and Infrastructure Construction Works

### Year 3

- Measurement of Civil Engineering Works
- Construction and Project Management
- Quantity Surveying Practice III
- Data Analysis & Statistics
- Quantification & Computerisation
- Construction Economics II
- Value Engineering and Management
- Integrated Project
- Financial & Commercial Management
- Dissertation
- Industrial Training (6 Months To Be Completed Before Final Semester)

#### MPU

- Falsafah dan Isu Semasa
- Penghayatan Etika dan Peradaban (Local Students)
- Bahasa Melayu Komunikasi 2 (International Students)
- Business and Professional Ethics
- Bahasa Kebangsaan A
- Co-Curiculum: Sustainability Thinking
- Principles of Entrepreneurship



### SUSTAINABLE GOALS

- 1. No Poverty
- 4. Quality Education
- 6. Clean Water And Sanitation
- 7. Affordable And Clean Energy
- 8. Decent Work And Economic Growth 9. Industry, Innovation And Infrastructure
- 10. Reduced Inequalities
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action
- 14. Life Below Water
- 15. Life On Land
- 16. Peace, Justice And Strong Institutions
- 17. Partnerships For The Goals

#### 9 PILLARS OF TECHNOLOGI-**CAL ADVANCEMENT**

- A. Advanced Robotics
- B. Simulation & Augmented Reality C. Horizontal & Vertical Integration
- F. Cloud
- H. Supply Chain
- I. Big Data Analytics



### **Career Opportunities**

Quantity Surveyor, Contract and Cost Administrator, Property and Commercial Executive, Procurement Advisor & Contract Executive/Project Executive are some of the possible employment prospects for QS graduates.

# HIGHLY FOCUSED ON PRATICAL & SUSTAINABLE ARCHITECTURE

- Recognised by Board of Architects, Malaysia
- Taught by lecturers with industry experience
- Subjects for the future: Sustainability & Green Technology

# BACHELOR OF SCIENCE (HONS) ARCHITECTURE

KD (R/581/6/0092)(11/26)(MQA/FA8425)

### **Programme Modules**

#### Year 1

- Design Studio 1
- Architectural Graphics
- Building Materials
- Architecture History 1
- Environmental Science 1
- Design Studio 2
- Architectural Communication
- Architecture History 2
- Building Construction 1Environmental Science 2

#### Year 2

- Design Studio 3
- Building Construction 2
- Basic CAD
- Building Services 1
- Structure 1
- Advanced CAD
- Design Studio 4
- Asian Architecture
- Structure 2
- Working Drawing

#### Year 3

- Design Studio 5
- Building Services 2
- Building Information Modelling
- Measured Drawing
- Industrial Training
- Design Studio 6
- Professional Studies
- Construction Project Management
- Sustainable Building Design

#### MPU

- Falsafah dan Isu Semasa
- Penghayatan Etika & Peradaban (Local students)
- Bahasa Melayu Komunikasi 2 (International Students)
- Principles of Entrepreneurship
- Bahasa Kebangsaan A
- Business Ethics
- Co-Curriculum : Sustainability Thinking



### SUSTAINABLE GOALS

- 3. Good Health And Well-Being
- 7. Affordable And Clean Energy
- 9. Industry, Innovation And Infrastructure
- 13 Climate Action
- 14. Life Below Water
- 15. Life On Land

#### 9 PILLARS OF TECHNOLOGI-CAL ADVANCEMENT

B. Simulation & Augmented Reality C. Horizontal & Vertical Integration



#### **Career Opportunities**

Assistant Architect, Technical Assistant, CAD Operator, Construction Supervisor, 3D Visualizer, Graphic Artist, Creative Designer.

# BACHELOR OF ARTS (HONOURS) IN INTERIOR ARCHITECTURE

KD (R/581/6/0027)(05/25)(MQA/FA1340)

### **Programme Modules**

#### Year 1

- Theory Practice and Design
- Architecture Principles and Communication
- Building Construction 1
- Building Services 1
- Software Application for Design
- Residential Design
- Architecture History 1
- Architecture Graphic
- Building Services 2
- Interior Material and Furnishing
- Building Construction 2

#### Year 2

- Commercial Design
- Architecture History 2
- AutoCAD in Interior Design
- Environmental Psychology
- Furniture Design Workshop
- Environmental Management & Technology
- Advance Interior Design 1
- Lighting Design
- Construction Contract Law
- Specifications and Contract Documentation
- Advance Computer Modelling

#### Year 3 (18 months)

- Advance Interior Design 2
- Project and Construction Management
- Professional Practice for Interior Design
- Research Methods
- Business Ethic
- Entrepreneurship
- Design Project
- Thesis
- Industrial Training (6 months - to be completed before the Final semester)

#### MPU

- Penghayatan Etika dan Peradaban (Local student)
- Bahasa Melayu Komunikasi 2 (International student)
- Falsafah dan Isu Semasa
- Effective Listening
- Bahasa Kebangsaan A
- Personal Health Management
- Pengurusan Ko Kurikulum

### LEMBAGA ARKITEK MALAYSIA

### SUSTAINABLE GOALS

- 3. Good Health And Well-Being
- 4. Quality Education
- 5. Gender Equality
- 7. Affordable And Clean Energy
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production

#### 9 PILLARS OF TECHNOLOGI-CAL ADVANCEMENT

B. Simulation & Augmented Reality

#### **Career Opportunities**

A degree in interior architecture and design will equip you with the specific creative and technical skills you'll need to succeed in the field. Career opportunities are vast and varies from Technical Assistant, Junior Designer, Interior Designer, Interior Architect, Interior and Spatial Designer, Furniture Designer, Set & Exhibition Designer to Lighting and Colour Consultant and Project Manager.

# INTERIOR ARCHITECTURE DEGREE FOR A SUSTAINABLE FUTURE

- Taught by lecturers with industry experience
- Recognised by Board of Architects, Malaysia
- Subjects for the future: Sustainability & Green Technology

## **B.ENG (HONS) AUTOMOTIVE ENGINEERING (3+0)**

SJ (R2/0715/6/0114) (05/28) (MQA/FA2376)

### **Programme Modules**

#### Year 1

- Applied Mechanics
- Manufacturing and Materials
- Engineering Mathematics
- Introduction to Automotive Engineering
- Design, Drawing and Practical Skills
- Energy Conversion
- Electronics and Electrical Principles
- Engineers and Society
- Penghayatan Etika dan Peradaban / Falsafah dan Isu Semasa (International students)
- Falsafah dan Isu Semasa (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Penghayatan Etika dan Peradaban (Local students)

#### Year 2

- Design Methods and Application
- Computer Aided Engineering
- Automation for Manufacturing
- Steering and Suspension System
- Vehicle Drive Train and Chassis System
- Engineering Mechanics
- Thermofluids and Engines
- Design and 3D Modelling
- Design Thinking / Bahasa Kebangsaan A\*
- Malaysia Society 5.0
- Research Writing

#### Year 3

- Automotive Dynamics and Control
- Automotive Design and Material Selection
- Project
- Community Engagement
- Internship
- Professional Engineering Management
- Manufacturing System Design



#### **Career Opportunities**

This programme prepares you for a career in research, design, development, advanced engineering and production of various types of heavy or light vehicles. As graduates of this programme, you can create the latest design for vehicles, utilising knowledge of engines and transmissions, vehicle dynamics, analysis of vehicle structure and electronics.

FASTEST PATHWAY TO AN AUTOMOTIVE ENGINEERING DEGREE

Fast growing industry in Malaysia
 Taught by lecturers with industry experience
 Complete a UK Degree in Malaysia

\* For Malaysian students who do not have credit in SPM BM

# FASTEST PATHWAY TO AN MECHANICAL ENGINEERING DEGREE

Abundant career and entrepreneurial opportunities
 Taught by lecturers with industry experience
 Complete a UK Degree in Malaysia

# B.ENG (HONS) MECHANICAL ENGINEERING (3+0)

SJ (R3/521/6/0013) (05/27) (A 7814) • PG (R2/521/6/0044) (12/27) (MQA/FA2642)

### **Programme Modules**

#### Year 1

- Applied Mechanics
- Manufacturing and Materials
- Engineering Mathematics
- Programming Methodology and Problem Solving
- Design, Drawing and Practical Skills
- Energy Conversion
- Electronics and Electrical Principles
- Engineers and Society
- Penghayatan Etika dan Peradaban / Falsafah dan Isu Semasa (International students)
- Falsafah dan Isu Semasa (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Penghayatan Etika dan Peradaban (Local students)

#### Year 2

- Design Methods and Application
- Computer Aided Engineering
- Automation for Manufacturing
- Numerical Analysis
- Manufacturing Processes
- Engineering Mechanics
- Thermofluids and Engines
- Design and 3D Modelling
- Design Thinking / Bahasa Kebangsaan A\*
- Malaysia Society 5.0
- Research Writing

#### Year 3

- Engineering Dynamics and Thermofluids
- Mechanical Design and Materials Selection
- Project
- Community Engagement
- Internship
- Professional Engineering Management
- Manufacturing System Design

### University of Sunderland

#### \* For Malaysian students who do not have credit in SPM BM

#### **Career Opportunities**

As graduates of the BEng (Hons) Mechanical Engineering, you will have the necessary skills and knowledge to play a major role in design, management and manufacturing in a wide range of industries.

# FASTEST PATHWAY TO AN E&E ENGINEERING DEGREE

- Subjects designed for IR4.0 and beyond
- Taught by lecturers with industry experience
- Complete a UK Degree in Malaysia

# **B.ENG (HONS) ELECTRONICS AND ELECTRICAL ENGINEERING (3+0)**

SJ (R3/523/6/0290) (05/27) (A7813) • PG (R2/523/6/0097) (12/27) (FA2482)

#### **Programme Modules**

#### Year 1

- Applied Mechanics
- Manufacturing and Materials
- Engineering Mathematics
- Programming Methodology and Problem Solving
- Design, Drawing and Practical Skills
- Energy Conversion
- Electronics & Electrical Principles
- Engineers and Society
- Penghayatan Etika dan Peradaban / Falsafah dan Isu Semasa (International students)
- Falsafah dan Isu Semasa (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Penghayatan Etika dan Peradaban (Local students)

#### Year 2

- Control and Instrumentation
- Mathematics, Statistics and Simulation
- Microprocessors and PLCs
- Electromagnetic and Magnetism Theory
- Manufacturing Processes
- Electronics
- Electrical Power Systems and Machines
- Communication System
- Design Thinking / Bahasa Kebangsaan A\*
- Malaysia Society 5.0
- Research Writing

#### Year 3

- Electrical Power
- Electronic Systems Design
- Project
- Community Engagement
- Internship
- Professional Engineering Management
- Manufacturing System Design



\* For Malaysian students who do not have credit in SPM BM

### **Career Opportunities**

As graduates of the BEng (Hons) Electronics and Electrical programme, you will have a wide choice of career in diverse sectors such as: Automotive industry, Aerospace, Power generation and Communications.

# DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

SJ (R3/520/4/0091) (11/27) (MQA/FA 2829) • PG (R2/523/4/0103) (01/28) (MQA/FA2301

### **Programme Modules**

#### Year 1

- Engineering Mathematics 1
- Foundation Physics
- Engineering Drawing
- Principles of Electronics and Electrical Engineering
- Applied Digital Skills
   Academic English
- Falsafah dan Isu Semasa / Penghayatan Etika dan Peradaban (Local students)
- Bahasa Melayu Komunikasi 1 (International students)
- Growth Mindset / Bahasa Kebangsaan A\*
- Programming Methodology and Problem Solving
- Engineering Mathematics 2
- Digital Electronics
- Circuit Theory and Electro-Magnetic Field
- Analogue Electronics
- Instrumentation and Measurement
- Microprocessors and Microcontrollers

#### Year 2

- Applied Mathematics
- Co-curriculum Management
- Control System
- Introduction to Robotics and Industrial Simulation
- Electrical Machines
- Microelectronics
- Elective
- Industry Revolution 4.0 in Malaysia
- Final Year Project 1
- Communication System
- Power System
- Industrial Management
- Final Year Project 2

#### Year 3

Internship

\* For Malaysian students who do not have credit in SPM BM

#### **Career Opportunities**

As graduates of the Diploma in Electrical and Electronic Engineering, you are able to pursue a variety of job roles. Possible job titles relevant to this qualification include: Electrical Engineering Technical Officer, Technologist, Design Specialist, Assistant Engineer.

# BUILDING A **STRONG FOUNDATION** TO AN E&E DEGREE

Taught by lecturers with industry experience

E&E labs and simulation equipment

# **DIPLOMA IN MECHANICAL ENGINEERING**

SJ (R3/521/4/0014) (03/27) (A 7749)

### **Programme Modules**

#### Year 1

- Engineering Mathematics 1
- Foundation Physics
- **Engineering Drawing** •
- Principles of Electronics and Electrical • Engineering
- **Applied Digital Skills** ٠
- Academic English ٠
- Falsafah dan Isu Semasa / Penghayatan Etika dan Peradaban (Local students)
- Bahasa Melayu Komunikasi 1 (International students)
- Growth Mindset / Bahasa Kebangsaan A\*
- Programming Methodology and Problem •
- Solving
- **Engineering Mathematics 2**
- **Engineering Statics** •
- Material Engineering Thermodynamics
- Mechanics of Fluids 1

#### Year 2

- Co-curriculum Management
- Mechanics of Material 1
- Manufacturing Technology
- Applied Thermodynamics
- Mechanics of Fluids 2
- Elective .
- Industry Revolution 4.0 in Malaysia
- Final Year Project 1 •
- ٠ Mechanics of Material 2
- Engineering Dynamics •
- Heat Transfer •
- Industrial Management
- Machine Design
- Final Year Project 2
- **3D Design Process** •

#### Year 3

• Internship

\* For Malaysian students who do not have credit in SPM BM

#### **Career Opportunities**

Possible job titles relevant to this qualification include: CAD Application Engineer, Trainee Engineer, Trainee Design Engineer, Mechanical Engineer, Design Engineer, Draughts Person and Structural Engineer.

# **BUILDING A STRONG FOUNDATION TO A MECHANICAL ENGINEERING DEGREE**

Taught by lecturers with industry experience

World-class facilities

## **DIPLOMA IN INTERIOR ARCHITECTURE**

SJ (R3-TVET/0212/4/0001) (11/27) (A7946)

### **Programme Modules**

#### Year 1

- 2 and 3 Dimensional Design
- Colour Studies
- Fundamental Photography
- Digital Graphic
- General Language Training
- Architecture Drafting
- Material & Finishes
- Academic English
- Interior Architecture 1
- Building Construction
- Workshop Practice
- History of Architecture
- Penghayatan Etika dan Peradaban (local students) / Bahasa Melayu Komunikasi 1 (International students)

#### Year 2

- Interior Architecture 2
- Lighting Design
- Design Methods
- AutoCAD Studies
- Growth Mindset / Bahasa Kebangsaan A\*
- Computer 3D Modeling
- Industrial Revolution 4.0 in Malaysia
- Interior Architecture 3
- Furniture Design
- Portfolio Preparation
- Co-curriculum: Sustainable Thinking

#### Year 3

- Industrial Training
- Interior Architecture 4
- \* For Malaysian students who do not have credit in SPM BM

#### in collaboration with





#### **Career Opportunities**

Interior architect, interior designer, interior consultant, retail & commercial designer, residential designer, lighting & furniture designer.

# **DESIGNED FOR VERSATILE SPACE** DESIGNERS **OF THE FUTURE**

Strong industry partnerships & linkages Award winning alumni & lecturers Practical & hands-on learning



# **DISCOVER YOUR PASSION IN** NFORMATION **TECHNOLOGY** WHILE KEEPING YOUR OPTIONS OPEN

Fastest pathway into a wide variety of Degree Programmes Build a strong foundation in Science

### FOUNDATION IN SCIENCE

KD (R2/010/3/0356)(07/25)(MQA/A4432); MQA/PA14176 N-DL/010/3/0024

#### **Programme Modules**

#### Semester 1

- Chemistry 1
- Mathematics 1
- Elective 1\* •
- Elective 2\* •

General

٠

•

•

Biology 1

Physics 1

Biology 2

Physics 2

• Physics 3

### Chemistry 2

- Mathematics 2
- Elective 3\*

#### Semester 3

- Chemistry 3
- Mathematics 3
- Academic English
- **Computer Application**
- Elective 5\*

#### Engineering

- Physics 1
- **Public Speaking**
- Physics 2
- Information Technology
- Physics 3

- \* Electives are subject to change without prior notice.
- Students intending to articulate into the Health Sciences degree programmes will have a choice to take either General or Health Sciences Pathway.
- Students intending to articulate into Engineering degree programmes will have a choice to take either General or Engineering Pathway.

### FOUNDATION IN SCIENCE

SJ (R3/000/3/0021) (04/28) (A7755)

#### **Programme Modules**

- Chemistry I
- Mathematics I
- Physics I
- Biology I
- English l
- Chemistry II
- Mathematics II
- Physics II
- Basic Information and
- Communication Technologies (ICT)
- English II
- Chemistry III

- **Engineering Mathematics**
- Physics III
- Biology II ٠
- Biochemistry
- Thinking Skills

#### Why study this programme?

This qualification is specially designed for students with SPM, O-Level or equivalent qualifications. Upon successful completion of this programme, students may enrol in a range of health sciences or degree programmes engineering.

- Biology 1
- Public Speaking
- Biology 2
- Information Technology
- Introduction to Patient Care
- Elective 4\*

# Semester 2





### Elective (by Specialisation)\* **Health Sciences**

# FOUNDATION IN ARTS

KD (R2/010/3/0406)(07/26)(MQA/FA0193); MQA/PA4175 N-DL/010/3/0025

#### **Programme Modules**

#### Semester 1

- General Language Training
- Computer Application
- Introduction to Business
- Mathematics
- Statistics\*

#### Semester 2

- Academic English
- Elective 1
- Elective 2
- Elective 3
- Elective 4

#### Semester 3

- Public Speaking
- Critical Thinking Skills
- Principles of Economics
- Elective 5

### Electives

#### **Business & Accounting**

- Introduction to Financial Accounting
- Fundamental of Management
- Intercultural Communication
- Information Technology
- Introduction to Marketing

### Communication Studies/English &

- PRInterpersonal Communication
- Intercultural Communication
- Fundamental Photography
- Information Technology
- Introduction to Marketing

#### Information Technology

- Programming Methodology
- Interpersonal Communication
- Fundamental of Management
- Intercultural Communication
- Information Technology

## 

### **Programme Modules**

#### Year 1

- Thinking Skills
- English l
- MathematicsBasic Information and
- Communication Technologies (ICT) • Introduction to Psychology
- Essentials of Economics
- English II
- Introduction to Law
- Introduction to Sociology

- Co-curriculum
- Introduction to Management
- Writing and Research Skills
- Electives (Choose any two):
  - Introduction to Finance - Introduction to Visual Arts
  - Introduction to Mass Media
  - and Communication
  - Introduction to Legal Skills

#### Quantity Survey/Hospitality/ Education/Psychology

- Information Technology
- Interpersonal Communication
- Fundamentals of Management
- Introduction to Marketing
- Intercultural Communication

#### Creative Design/ Architecture/Interior Architecture

- Colour & Form
- Drawing Fundamentals
- Fundamental Photography
- Intercultural Communication
- Interpersonal Communication

\*ODL Mode

#### Why study this programme?

This qualification is specially designed for students with SPM, O-Level or equivalent qualifications and who would like to pursue a bachelor's degree at the university. Upon successful completion of the Foundation in Arts programme, students may further their studies in a wide range of degree programmes depending on units completed during their studies. Students may be eligible to apply for advanced standing.

# A FOUNDATION WITH THE WIDEST PATHWAYS

- Fastest pathway into a wide variety of Degree Programmes
- 4 electives to choose from

### **SEGI UNIVERSITY & COLLEGES'** IT & ENGINEERING PROGRAMMES ARE ALIGNED WITH THE 9 PILLARS OF INDUSTRIAL REVOLUTION 4.0





### 9 PILLARS OF TECHNOLOGICAL ADVANCEMENT



Cybersecurity

Operation in networks and open systems

High level of networking between intelligent machines, products and systems



Horizontal Vertical Integration

Cross-company data integration based on data transfer standards

Precondition for a fully automated value chain (from supplier to customer, from management to shop floor)



Autonomous Robot

Autonomous, cooperating industrial robots

Numerous integrated sensors and standardised interfaces



#### Simulation & Augmented Reality

Augmented realty for maintenance, logistics and all kinds of SOP Simulation of value networks and Optimisation based on real-time data from intelligent systems



Additive Manufacturing

3D printing, particularly for spare parts and prototypes

Decentralised 3D facilities to reduce transport distances and inventory



#### Big Data Analytics

Full evaluation of available data (e.g. from ERP, SCM, MES, CRM, and machine data)

Real-time decision-making support and optimisation



#### Industrial Internet of Things

Network of machines and products

Multidirectional communication between networked objects



Supply Chain

The use of advanced robotics, and the application of advanced analytics of big data in supply chain management

Place sensors in everything, create networks everywhere, analyse everything to significantly improve performance and customer satisfaction



Management of huge data volumes in open systems

Real-time communication for production systems



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