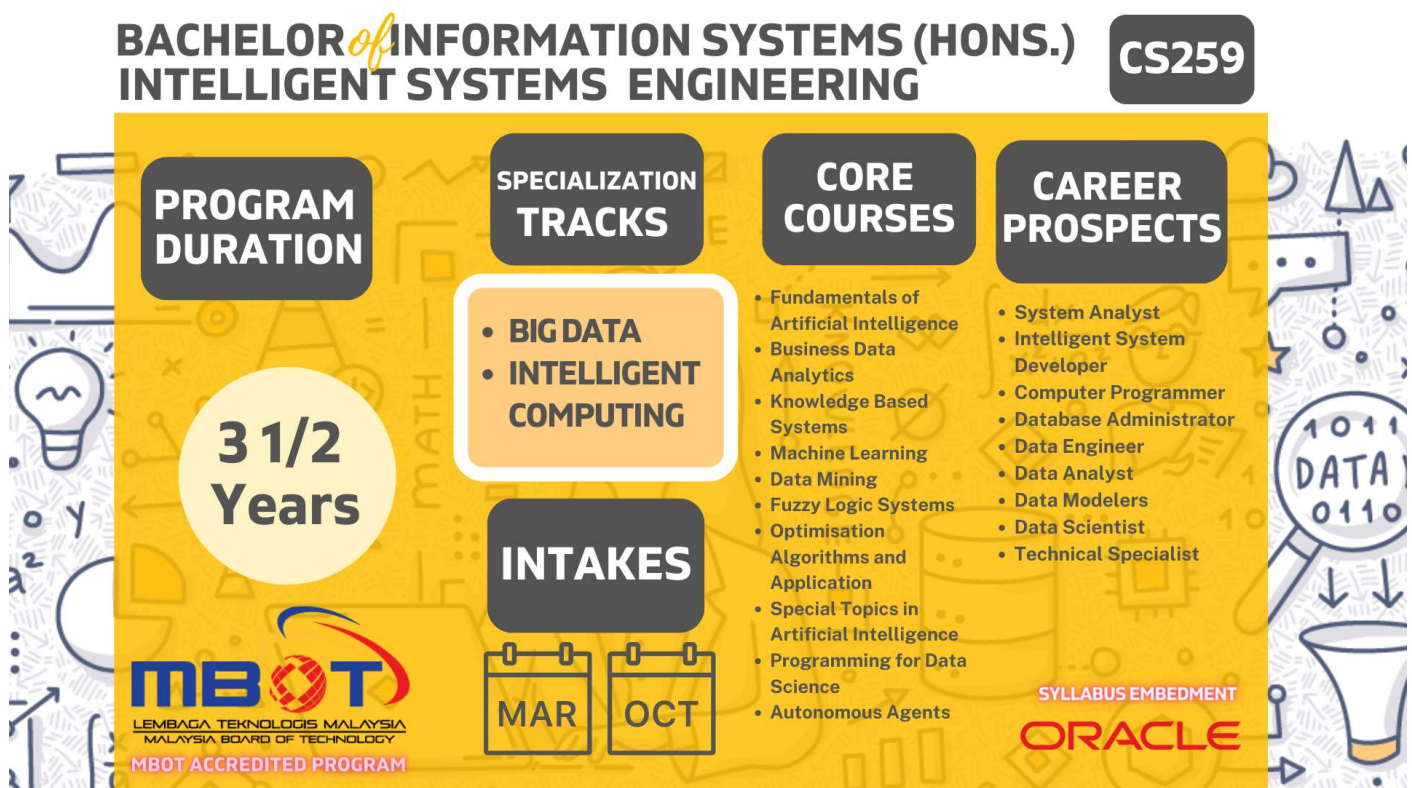


# CS259 BACHELOR OF INFORMATION SYSTEMS (HONS.) INTELLIGENT SYSTEMS ENGINEERING / SARJANA MUDA SISTEM MAKLUMAT (KEPUJIAN) KEJURUTERAAN SISTEM PINTAR

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## Infographic



## Programme Description / Penerangan Program

This programme offers two specialization tracks; Big Data and Intelligent Computing track to nurture responsible innovative Intelligent Application Specialist who will elevate ubiquitous technology in fulfilling the National Digital Transformation.

The programme provides advanced teaching facilities such as smart classrooms and Big Data laboratories which able to develop and sharpen the skills to qualify the students to pursue a variety of digital industry careers.

This programme embraces various discipline in Big Data and Intelligent Computing to produce experts in ICT main field such as Business Intelligence and Analytics, Enterprise Resource Planning, Database and Software Application and Development.

# Entry Requirements/ Syarat Kemasukan

<b>FAKULTI SAINS KOMPUTER DAN MATEMATIK</b> Memenuhi Syarat Am Universiti serta Syarat Khas Program			
Bil.	Nama Program   Kod UiTM / Kod UPU   Tempoh Pengajian   Syarat Am Universiti	Lepasan	
		Min CGPA / PNGK / MUET	Syarat Khas Program
	<b>Sarjana Muda Sistem Maklumat (Kepujian) Kejuruteraan Sistem Pintar CS259 / UE6481006 (3 ½ Tahun / 7 Semester)</b>  <b>Terbuka kepada keturunan Melayu, Anak Negeri Sabah, Anak Negeri Sarawak dan Orang Asli sahaja.</b>  <b>Syarat Am Universiti</b> <ul style="list-style-type: none"> <li>Lulus SPM / setaraf dengan baik.</li> <li>Lulus Sejarah (mula diguna pakai SPM 2013).</li> <li>Kepujian dalam Bahasa Melayu / Malaysia di peringkat SPM / setaraf.</li> <li>Mendapat sekurang - kurangnya Gred C (NGMP 2.00) dalam Pengajian Am dan sekurang - kurangnya PNGK 2.00.</li> <li>Lulus Matrikulasi KPM / Asasi Sains UM / Asasi UiTM dengan mendapat sekurang-kurangnya PNGK 2.00.</li> <li>Lulus Diploma dari IPT yang diiktiraf oleh Kerajaan Malaysia.</li> <li><i>Malaysian University English Test</i> (MUET) Band 1.</li> </ul>	<b>LEPASAN DIPLOMA UiTM</b>	
		<b>2.50 / Band 2</b>	Diploma Sains Komputer / Diploma Sains Kuantitatif / Diploma Sains Matematik / Diploma Statistik / Diploma Sains Aktuari.  <b>ATAU</b>  Diploma dalam bidang Sains dan Teknologi.
		<b>2.00 / Band 2</b>	Diploma Sains Komputer / Diploma Sains Kuantitatif / Diploma Sains Matematik / Diploma Statistik / Diploma Sains Aktuari dengan SATU (1) tahun pengalaman bekerja dalam bidang pengkomputeran.  <b>ATAU</b>  Diploma dalam bidang Sains dan Teknologi dengan kepujian Matematik di peringkat SPM / Setaraf dengan SATU (1) tahun pengalaman bekerja dalam bidang pengkomputeran.  <b>Nota:</b> Calon lulus saringan di peringkat fakulti.
		<b>LEPASAN DIPLOMA INSTITUSI PENGAJIAN TINGGI YANG DIIKTIRAF OLEH KERAJAAN MALAYSIA</b>	
		<b>2.50 / Band 2</b>	Diploma dalam bidang Pengkomputeran  <b>ATAU</b>  Diploma dalam bidang Sains dan Teknologi dengan kepujian dalam Matematik di peringkat SPM / Setaraf.  <b>Nota:</b> Calon lulus saringan di peringkat fakulti.
		<b>LEPASAN ASASI UiTM / ASASI SAINS UM / MATRIKULASI KPM / ASASI PINTAR UKM</b>	
		<b>2.00 / Band 2</b>	Lulus dengan minimum PNGK 2.00.  <b>DAN</b>  Lulus SPM / setaraf dengan mendapat kepujian dalam mata pelajaran berikut:  a. Matematik Tambahan; atau b. Matematik dan salah satu mata pelajaran Fizik / Kimia / Biologi / Fundamentals of Programming / Programming and Development Tools / Information and Communication Technology / Sains Tambahan / Sains / Sains Komputer / Grafik Komunikasi Teknikal / Reka Cipta / Pengajian Kejuruteraan Awam / Pengajian Kej. Mekanikal / Pengajian Kej. Elektrik & Elektronik / Lukisan Kejuruteraan / Reka Bentuk Grafik / Produksi Multimedia



<b>FAKULTI SAINS KOMPUTER DAN MATEMATIK</b> Memenuhi Syarat Am Universiti serta Syarat Khas Program			
Bil.	Nama Program   Kod UiTM / Kod UPU   Tempoh Pengajian   Syarat Am Universiti	Lepasan	
		Min CGPA / PNGK / MUET	Syarat Khas Program
		<b>LEPASAN STPM / SETARAF</b>	
		<b>2.00 / Band 2</b>	Lulus dalam aliran Sains dengan minimum Gred C (NGMP 2.00) dalam SATU (1) mata pelajaran Matematik dan SATU (1) mata pelajaran Sains / ICT.  <b>DAN</b>  Lulus SPM / setaraf dengan mendapat kepujian dalam mata pelajaran berikut:  a. Matematik Tambahan; atau b. Matematik dan salah satu mata pelajaran Fizik / Kimia / Biologi / Fundamentals of Programming / Programming and Development Tools / Information and Communication Technology / Sains Tambahan / Sains / Sains Komputer / Grafik Komunikasi Teknikal / Reka Cipta / Pengajian Kejuruteraan Awam / Pengajian Kej. Mekanikal / Pengajian Kej. Elektrik & Elektronik / Lukisan Kejuruteraan / Reka Bentuk Grafik / Produksi Multimedia.
			<b>ACCREDITATION OF PRIOR EXPERIENTIAL LEARNING (APEL)</b>
		<b>Band 2</b>	<ul style="list-style-type: none"> <li>▪ Lulus Penilaian APEL (ujian Aptitud dan Portfolio) oleh MQA.</li> <li>▪ Umur tidak kurang daripada 21 tahun pada tahun permohonan.</li> <li>▪ Pengalaman bekerja dalam bidang Sains dan Teknologi sekurang - kurangnya tujuh (7) tahun.</li> <li>▪ Lulus temu duga peringkat Fakulti.</li> </ul>

Further information, please contact:

Dr Nor Shahida Mohamad Yusop

Koordinator Sistem Maklumat

Tel: 03-5521 1154

## Course Detail / Perincian Kursus

### Semester 1 Year 1

Fundamentals of Computer Science, Fundamentals of Computer Problem Solving, Islamic and Asian Civilization, Co-Curriculum I, Calculus I, Applied Probability and Statistics, Introduction to Management

### Semester 2 Year 1

Object Oriented Programming, Introduction to Multimedia, Curriculum II, Fundamentals of Information Systems Development, Introduction to Data Communication and Networking, Discrete Mathematics, Intermediate, Financial Accounting and Reporting

### **Semester 3 Year 2**

English for Critical Academic Writing, Co-Curriculum III, Fundamentals of Artificial Intelligence, Database Management Systems, Third Language I, Hubungan Etnik, Foundation of Information Systems, Knowledge Based Systems.

### **Semester 4 Year 2**

English for Professional Interaction, Artificial Neural Network, Data Mining, Fuzzy Logic Systems, Elective I, Elective II, Third Language II.

### **Semester 5 Year 3**

Project Formulation, Business Data Analytics, Evolutionary Algorithm, Elective III, Elective IV, Third Language III, English Exit Test

### **Semester 6 Year 3**

Project, Technology Entrepreneurship, Computing Project Management, Social, Ethical & Professional Issues, Special Topic in Artificial Intelligence.

### **Semester 7 Year 4**

Industrial Training

### **Elective Course (Intelligent System Track)**

Intelligent Agents, Artificial Intelligence Programming Paradigm, Intelligent Systems Development, Introduction to Internet of Things, Secure Internet Working Technologies, Human Computer Interaction.

### **Elective Course (Big Data Track)**

**Programming for Data Science, Data Representation & Report Techniques, Statistics for Business and Social Sciences, Introduction to Internet of Things, Secure Internet Working Technologies, Human Computer Interaction.**

## **Job Opportunities / Peluang Pekerjaan**

Students will be developed into highly competent application developer who is able to apply intelligent system techniques, knowledge and practical skills in providing services for digital industries especially in Big Data Analytics and Software Development.

Graduates from this programme also have been accepted at some of the country's best universities to pursue their studies or other professional degree programmes.

The programme embraced and facilitated The Fourth Industrial Revolution elements which produce a competitive graduate to supports the evolution of current technologies.

## **Accreditation/ Akreditasi**

Universiti Teknologi MARA (UiTM) Shah Alam (<https://www2.mqa.gov.my/mqr/english/epaparIPTAAA.cfm?IdAkrKP=17676>)

## **Locations / Lokasi**

This program is offered at UiTM Shah Alam & Kedah (Sungai Petani).

