SENTRAL COLLEGE PENANG

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COMPUTING & INFORMATION TECHNOLOGY

Certificate in Business Information Technology Diploma in Computer Systems Technology BSc. (Hons) Software Engineering 3+0

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COMPUTING & INFORMATION TECHNOLOGY



Technological progress is the driving force behind economic growth, citizen engagement and job creation. Information and Communication Technology (ICT) in particular is reshaping many aspects of the world's economy and society atlarge. Businesses can harness the transformative power of ICT to provide more efficient services, catalyst economic growth and strengthen social network.

SENTRAL College Penang is committed to continuously improve the delivery of ICT to equip students to be literate lifelong learners and global citizens of the 21st century.

"TECHNOLOGY" THE NEXT GENERATION OF BIG BUSINESS.







University of Salford United Kingdom

The University of Salford, Manchester has over 100 years of history and experience from its humble beginning in the 19th Century during the great Industrial Revolution. The University College Salford and the University of Salford finally merged into a single institution in 1996 – precisely 100 years after the formation of the original Royal Technical Institute. Today the University has a thriving global presence and a turnover of £189m. With a total of 7 schools, 20,000 students and 2,500 staff the University serves the needs of industry, commerce and education.





TOP-NOTCH CAMPUS FACILITIES



ONLINE COMPUTER ROOMS

As technology continues to expand, the College offers well-equipped networked computer laboratories on the IT floor for all its IT related subjects.

The smaller labs accommodate 20 terminals at minimum while larger labs accommodate up to 42 terminals.



EQUIPED STUDENTS TO BE LITERATE LIFELONG LEARNERS



OPEN-LAB

The College aims to provide a service that fully supports its students in their studies.

The Open Lab at Level 11 is freely accessible to students to conduct their research, write assignments and discuss and complete projects.



JABIL

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The Library offers a wide selection of resources and learning materials for all students and staff for reference and borrowing. Located at Level 11, it provides a conducive ambience for learning. The private discussion room within the Library

plan and write their assignments.

offers a place for students to discuss,





SENTRAL FITNESS CENTRE

The College is committed to produce wholesome graduates who excel academically as well as be fit physically. The gymnasium at Level 8 gives the students an opportunity to make healthy lifestyle choices for achieving their maximum potential.



THEATRE ROOM

The Theatre Room 1 at Level 9 seats 38 in comfort while Theatre Room 2 at Level 11 has 30 seats. Each Theater Room is equipped with LCD projector, motorize screen, sound system, dimmer switch and power outlet at every seat.

CERTIFICATE IN BUSINESS INFORMATION TECHNOLOGY

Awarded by SENTRAL COLLEGE PENANG

JPT/BPP(K)1000-600/P712 JId.4(1) (FA 2666) 03/28

Gain a new set of insights and competencies in the dynamic world of IT and business!

The development and rapidly-changing business world require multi-talented professionals in its management and information systems departments. In the wake of globalization, organisations are fast automating their business processes and systems. In meeting those demands, the Certificate equips you with the fundamental knowledge on IT and Business as well as IT in Business; essentially leading the way to nurture you into an array of innovative professions in the Business and IT industries.

This certificate equips you with a good foundation in IT and relevant knowledge and skills in business studies. Its broad curriculum covers updated IT knowledge which is tested through practical assessments in class. This certificate is a good stepping stone for one to pursue his/her diploma studies and eventually move on to degree.

PROGRAMME STRUCTURE

- Bahasa Kebangsaan A/B
- Pendidikan Moral/ Pengajian Islam
- Pengajian Malaysia
- Basic English
- Mathematics
- Computer Applications Skills
- Basic Economics
- Basic Statistics
- Personal Development and Leadership
- Fundamentals of Business and Management
- Introduction to Computer Systems
- Business Accounting
- Communication Skills
- Marketing Essentials
- Desktop Publishing
- Introduction to Management Accounting
- Website Development
- Introduction to Organizational Behaviour
- Introduction to Database
- Introduction to Programming
- Community Service

ENTRY REQUIREMENTS

- Passed SPM/SPMV/O-Level with a minimum of 1 credit and a pass in Mathematics; or
- Passed UEC with at least grade 'B' in 1 subject OR possess Sijil Kemahiran Malaysia (SKM) Level 2 in a related field and a pass in Mathematics; or
- Other relevant equivalent qualifications recognised by the Malaysian Government.
- Note:

Students without a pass in Mathematics at SPM level or equivalent can be admitted but are required to take and pass the reinforcement Mathematics with unconditional offer.

STUDY PATHWAY/ CAREER OPPORTUNITIES

Graduates can progress into any related Diploma programmes such as the Diploma in Business Studies, Diploma in Computer Systems Technology and Diploma in Accounting offered at SENTRAL. They can also pursue any related Diploma programmes offered by Malaysian, Australian and UK universities or colleges.

For those who are keen to embark on their careers, they can consider joining the following functions or field of work:

- Finance and Banking
- Hotel and Hospitality
- Administration / management
- Production / operations
- Supply Chain / Warehousing
- Retailing / Merchandising
- IT Technical Support / Technician
- Marketing and Promotions
- Legal Administration

DURATION

1 Year 5 Months

INTAKES

January
 April
 June
 August
 October

DIPLOMA IN COMPUTER SYSTEMS TECHNOLOGY

Awarded by SENTRAL COLLEGE PENANG

JPT/BPP(K)1000-600/P712 JId.3(22) (FA 2665) 03/28

With the growth in today's business world and handling of data, it has become more vital for one to possess sound knowledge of IT. This Diploma not only provides you an extensive competence in the world of computer science and IT, but it also develops your critical thinking, problem solving and communication skills, hence enhancing your ability to provide effective and efficient Computing and IT services and solutions to various organisations across varied industries.

The versatility of skills acquired from the Diploma has enabled our students to move onto careers in the world of IT. Our history and track record will testify that our graduates have either gained employment in reputable organizations and MNCs or have used this qualification as advanced entry into the second year of relevant Bachelor's degree programme.

PROGRAMME STRUCTURE

- Academic English
- Bahasa Kebangsaan A
- Professional Ethics
- Introduction to Programming
- Computer Applications
- Computer System Fundamentals
- Introduction to Operating Systems
- Statistics and Probability
- Discrete Mathematics
- Cybersecurity Fundamentals
- Database Management System
- Bahasa Melayu Komunikasi 1 (International Student)
- Falsafah & Isu Semasa
- Calculus and Algebra
- Introduction to Networking
- Community Service
- Kursus Integriti dan Antirasuah (KIAR)
- Data Structures & Algorithms
- Object Oriented Programming
- System Analysis & Design
- Human Computer Interaction
- Enterprise Application Development
- Web Development
- Final Year Project
- Advanced Networking
- Ethics in Computing

 Introduction to Mobile Programming VIndustrial Training

DURATION

2 Years 4 Months

ENTRY REQUIREMENTS

- Passed SPM/SPMV/O-Level with a minimum of 3 credits including Mathematics; or
- Passed UEC with at least grade 'B' in 3 subjects including Mathematics OR possess Sijil Kemahiran Malaysia (SKM) Level 3 in a related field and a credit in Mathematics; or
- Other relevant equivalent qualifications recognised by the Malaysian Government.

Note: Students with a pass in Mathematics at SPM level or equivalent can be admitted but are required to take and pass the reinforcement Mathematics with unconditional offer.

ELECTIVE MODULES

Elective 1 - Introduction to E-Commerce Elective 2 - Introduction to

Mobile Programming

• June

- January
 - August October

STUDY PATHWAY/ CAREER OPPORTUNITIES

Graduates can progress into the second year of a 3+0 degree programme currently offered at SENTRAL or any other relevant degree programme in Malaysian, Australian or UK universities.

Employment opportunities are abundant in government or private organizations in the following fields or area:

- Enterprise Application Programmer IT Officer
- Enterprise Web Developer
- Technical Support Assistant
- Database Administrator
 System Administrator
- Network Engineer
- Project Manager

- **INTAKES**
- April

BSC. (HONS) SOFTWARE ENGINEERING 3+0



Awarded by UNIVERSITY OF SALFORD

JPT/BPP(K)1000-600P712 JId.5(12) (PA 15233) 5/29

Software systems are at the centre and heart of our daily lives. This includes commerce, industry, healthcare and communications. With organizations of all sizes seeking talented professionals to create software systems that are usable, robust and maintainable, there is no better time than now to study software engineering at SENTRAL College Penang.

The BSc (Hons) Software Engineering 3+0 programme is designed to develop in-depth knowledge and understanding of software specification, design, implementation and deployment using software development methodologies. It will equip students with advanced computing knowledge and a hands-on ethos, so the graduates are ready to build a successful and lucrative career in programming and software development. This degree is awarded by the University of Salford, which received a Royal Charter in 1967 from Her Majesty the Queen. The University is fully recognized by the British government.

PROGRAMME STRUCTURE

YEAR 1

- MPU
- Computer System Internals and Linux
- Database Systems
- Programming 1
- Academic English
- Computer Applications
- Mathematics for Computing
- MPU
- Professional Development & Practices
- Web Development and HCI
- Programming 2

YEAR 2

• MPU

- Career Development
- Client Server Systems
- Design Patterns
- Data Structures and Algorithms
- MPU
- Digital Marketing Innovation
- Elective 1
- Networking and Security
- Software Projects with Agile Techniques
- Software Evolution

YEAR 3

- MPU
- Dependable Software Engineering
- Information Security Management
- Project for SE
- Elective 2
- Business Management
- Software Quality Management
- Elective 3
- Industrial Training

ELECTIVE PAPERS

- Introduction to Big Data
- Internet of Things
- Cloud Computing

MPU SUBJECTS

- Penghayatan Etika dan Peradaban
- Falsafah dan Isu Semasa
- Youth Development
- Environmental Management
- Socio-Economic Engagement

INTAKES

June
 August

ENTRY REQUIREMENTS

- Passed STPM or equivalent to a minimum grade of 'C' (GPA 2.00) in any of the 2 subjects; or
- Passed the Matriculation program or Foundation or equivalent to a minimum CGPA of 2.00; or
- Diploma in Computing fields (Level 4, MQF) or its equivalent with a minimum CGPA of 2.50; or
- Any Diploma in Science and Technology (Level 4, MQF) with a minimum CGPA of 2.75;
 AND a credit in:
- AND a creait in:
- Additional Mathematics at SPM level or its equivalent; or
- Mathematics and any one of the Science, Technology or Engineering subjects at SPM level or its equivalent. Candidates need to take and pass the reinforcement Mathematics equivalent to Additional Mathematics at the SPM level.

CAREER OPPORTUNITIES

- Software/Application Engineer
- Software Project Engineer
- Systems Analyst, Systems Engineer
- Software Quality Engineer
- Software Configuration Engineer
- Software Architect
- Software Process Engineer

- Software Test Engineer
- Software Maintainer
- Academician
- Researcher
- Software Designer
- Web Developer
- Mobile Developer

SENTRAL'S MERIT SCHOLARSHIP

The scholarship awarded is based on academic merits. The students submit the scholarship form with supporting documents to confirm their academic achievements. This scholarship is applicable to selected programmes at SENTRAL College Penang.

Diploma Programmes:

| SPM | Entitlement | |
|---|-------------------------|--|
| 9A's / Above | 100% Tuition Fee Waiver | |
| 8A's | 50% Tuition Fee Waiver | |
| 7A's | 40% Tuition Fee Waiver | |
| 6A's | 30% Tuition Fee Waiver | |
| 5A's | 15% Tuition Fee Waiver | |
| 4A's | 15% Tuition Fee Waiver | |
| *Terms and conditions apply/ Subject to change without prior notice | | |

Degree Programmes:

| Diploma/ STPM | A-Levels/ UEC | Entitlement |
|---|---------------|------------------------|
| CGPA ≥ 3.50 | 2A's | 30% Tuition Fee Waiver |
| CGPA ≥ 3.00 | 1A | 20% Tuition Fee Waiver |
| *Terms and conditions apply/ Subject to change without prior notice | | |

Recognition of Distinction:







PRIVATE EDUCATIONAL INSTITU



Member of StudyPENANG:

A College Certified by:



ECAAS

Contact Us

SENTRAL COLLEGE PENANG DK197(P) Menara SENTRAL, 3 Penang Street, 10200 Penang.

sentral.edu.mySENTRAL College Penang

Opening Hours

Monday - Friday: 9:00 a.m. - 7:00 p.m. Saturday: 9:00 a.m. - 5:00 p.m. Sunday : 10:00 a.m. - 4:00 p.m. *Closed on Public Holidays



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