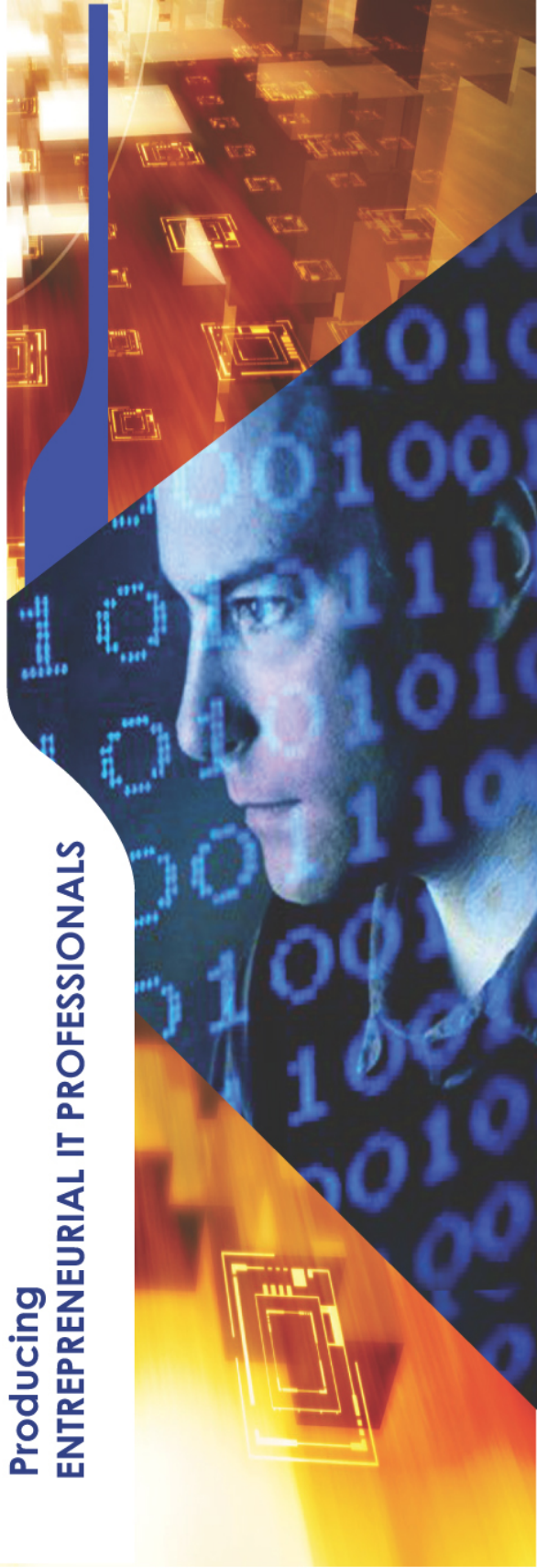




BINARY UNIVERSITY
of
MANAGEMENT & ENTREPRENEURSHIP

School Of Technology Management

**Producing
ENTREPRENEURIAL IT PROFESSIONALS**





School of Technology Management

Established in 1984, Binary University is rated as a 5-STAR University (excellent) by the Ministry of Higher Education (MOHE), the highest rating accorded to any public or private university in Malaysia. The University's School of Technology Management is a pioneer in offering cutting-edge IT programmes since the early 80's when it was then known as the School of Computing. The school was the first institution in Malaysia to forge strategic alliances with some of the world's leading IT firms to offer industry-relevant IT skills in all its academic programmes. Its strategic alliances with IBM, Oracle, Sun Microsystem, Lotus, Microsoft and SAP led to the university's graduates being sought after by many MNCs globally.

5 Reasons why students choose STM

- STM is the **ONLY** IT faculty that equips students with industry specializations, thus transforming them into Industry Specialist Professional IT graduates or ISPs.
- STM offers the latest IT technologies as part of its curriculum. This includes open source technology, cloud computing, mobile application development, security management and web application programming among others.
- A good proportion of our lecturers are industry practitioners, thus students get to learn the latest happenings in the ICT Sector.
- STM graduates enjoy one of the highest graduate employability in the nation. Our graduate employability rate of 96% (Source: Tracer Study, MOHE) is a testimony of the high demand of our graduates.
- STM graduates work in some of the top-notch IT firms locally and internationally which includes the following :

SHELL

HP

PETRONAS

DIGI

ASTRO

CELCOM

P1

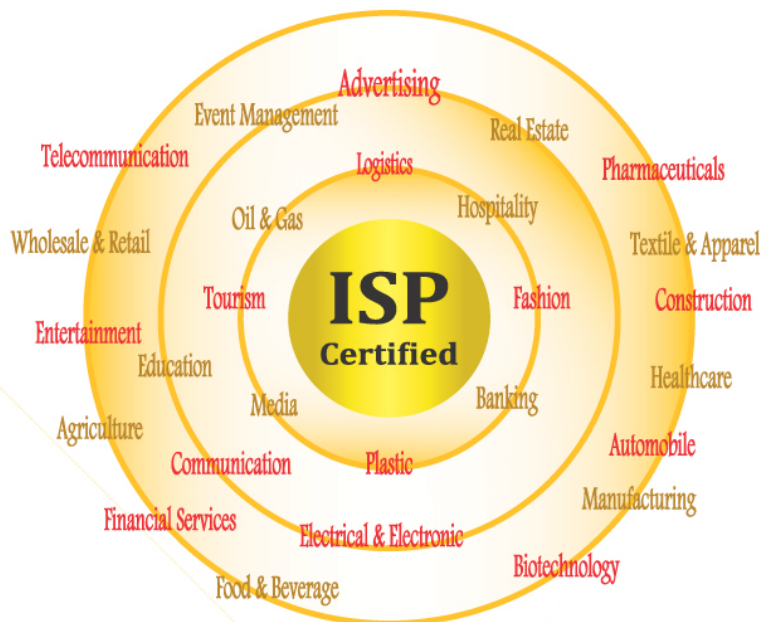
RedTone

ORACLE

IBM

Producing ISP Certified IT graduates.

Binary University is the ONLY university in the world that transforms IT graduates to become Industry Specialist Professionals or ISPs. By becoming an ISP, Binary graduates have a major competitive advantage over all other IT graduates who normally only do a functional sub-specialization in software engineering, security or apps development whereas our graduates will have industry-specific knowledge and skills that provide them insights into industry-specific opportunities.



Excellent Graduate Employability

STM graduates are found all over the world today because our focus has always been to produce highly marketable and globally- relevant IT graduates. In addition to ISP, we equip our graduates with a comprehensive range of entrepreneurial skills, thus helping them to become entrepreneurial IT Professionals. That's why our graduate employability rate is 96%, among the highest in the nation and speaks volume of the combined power of ISP and the entrepreneurial spirit.



BSc (Hons) Computer Science

The use of computing technology has never been so widespread worldwide. Computer science which is at the heart of computing is at an exciting stage in its evolution as a discipline and as a technology. Its recent developments include cloud computing, mobile application development, enterprise application development, artificial intelligence as well as games technology. The use of computer automation in almost every sphere of life have one common feature: they depend on well-designed computing solutions that solve complex problems which are error-free, fast and reliable.

Programme Aim

The BSc (Hons) Computer Science will equip students with a solid broad-based knowledge of computer science and practical-oriented skills in the latest IT technologies. The programme aims to produce ISP Certified IT graduates who possess in depth industry-specific knowledge and skills to help solve industry-specific business problems and help people lead a better quality of life. Graduates will possess a wide range of skills that would enable them to analyze, model and solve technically-based problems using their expertise in open source technology, cloud computing, artificial intelligence, database as well as security programming and application development.

Upon completion of this programme, you will be able:

- To understand how information technology affects society, business and the individual, both from a technical, ethical and legal point of view.
- To have an in-depth understanding of the appropriate theory, practices, languages and tools that may be deployed for the specification, design, implementation and evaluation of computer-based systems.
- To be able to work as an effective member of an IT development team.
- To develop a range of cognitive abilities and skills relevant to the task of designing, developing and evaluating programmed solutions to business problems.

Specializations

This BSc (Hons) degree offers specializations in Software Engineering, Cloud Computing, Database Management, Security Management, Networking and Application Development.



Career Opportunities

Excellent career opportunities awaits graduates from our BSc (Hons) degree as the degree equips one with industry-specific skills. Among the types of jobs available are

- * *Systems Analyst*
- * *Software Engineer*
- * *Cyber Security Specialist*
- * *Database Administrator*
- * *IT Project Manager*
- * *Network Security Administrator*
- * *Mobile Application Developer*
- * *Cloud Computing Professional*

Entry Qualification

- * Students must have a minimum of 2 principal passes in STPM, 2 'A' level, or a recognized Foundation or equivalent qualifications such as CMP, SAM, TEE etc.



Diploma in Information Technology

Technology has a large impact on all types of businesses and it is often extremely difficult for Small Medium Enterprises or SMEs which form the backbone of all developing economies of the world to keep abreast of technological changes. SMEs need affordable experts and this is the gap that the DIT graduates fit in.

Course Aims

The Diploma in Information Technology (DIT) is a cutting-edge programme that will equip students with a sound academic foundation and the latest computing technologies. Students would be equipped with skills in Java, C++, .net technology, object oriented programming languages, system development tools, database, network administration and systems architecture among others. Upon completion of this course, graduates will be able

- * To demonstrate a clear understanding of computing systems.
- * To design databases and write effective computer programs
- * To administer networks as well as maintain system security.
- * To use, configure, troubleshoot and maintain a current microcomputer operating system.
- * To have a good understanding of technologies and protocols used on the Internet, and know how to effectively use Internet tools.
- * To identify problems, formulate systems' requirements, design new systems and find solutions based on a systems approach.
- * To communicate effectively and work independently as well as in teams.
- * To be a multi-skilled graduate with good technical, management, leadership and entrepreneurial skills.

Academic Pathway



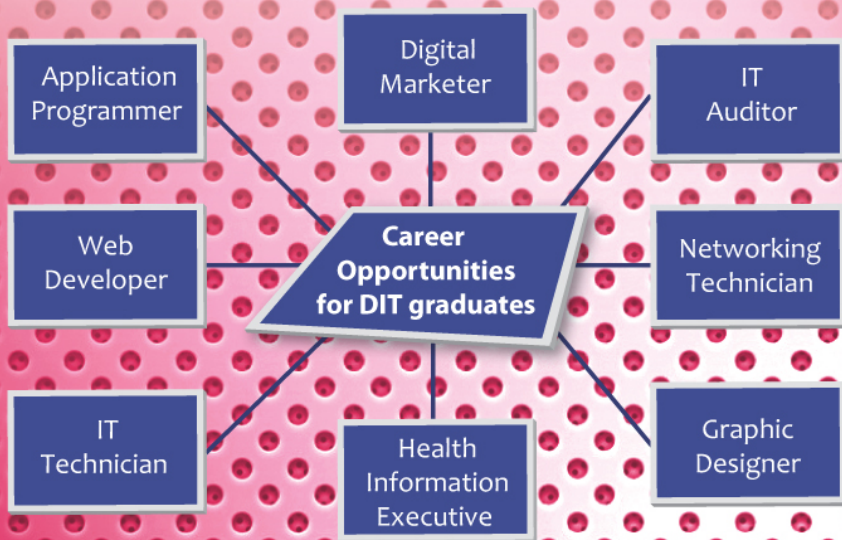
Entry Qualification

- * Students must have a minimum of 3 credits in the SPM or 'O' Levels to embark on the Diploma in Information Technology.

Career Opportunities

DIT graduates can work in a wide range of entry-level IT jobs that can help them to build a successful career in the ever expanding ICT sector. These include

- * *Application Programmer*
- * *Web Developer*
- * *IT Technician*
- * *Digital Marketer*
- * *IT Auditor*
- * *Networking Technician*
- * *Graphic Designer*
- * *Health Information Executive*





BSc (Hons) Management of Technology

If you have completed a diploma in engineering, science or in any other technical field but wish to occupy higher paying management positions, the BSc (Hons) Management of Technology is the right programme for you. If you ask around, many technical graduates will agree that they are actually suffering in silence in their workplace. After arming themselves with an engineering, biotechnology, IT or a science based qualification, they come to realize their jobs are really not a glamorous one as top management who often have lesser technical expertise have the last say in most business decisions. And there goes their technical qualification and job frustration sets in.

Technical graduates now have a golden opportunity to change all that through Binary University. Upon completion of a diploma in engineering, IT, biotechnology or any of the natural sciences, you can now upgrade to a degree that equips you with the management and entrepreneurial skills necessary for you to fast track your career to become a top-class manager or CEO of the future.

Course Aim

The BSc (Hons) in Management of Technology aims to produce Technical Managers who are able to combine their technical know-how with management expertise, leadership qualities and entrepreneurial skills. Upon completion of this degree, graduates will be able

- * To master management, leadership and entrepreneurship skills in order for them to fit into the job market as technical managers and prepare themselves to become CEOs of the future.
- * To understand financial reports and interpret statistical data.
- * To organize and effectively lead a team.
- * To analyze and correct problems in the firm's operations.
- * To execute effective marketing and financial strategies based on the dynamics of the marketplace.
- * To be innovative and creative in making strategic business decisions.

Career Opportunities

This is a programme for those who are aiming for high income jobs with opportunities to work globally. Career prospects are excellent as graduates can “walk and talk” both the languages of the “techies” and the “corporate high flyers”. Graduates can expect to occupy positions which are at the interface between these two groups of professionals. With experience, one can expect to move on to senior management positions including that of a General Manager or the CEO (Chief Executive Officer) of an organization. Among the types of jobs graduates can occupy include

- * Chief Operating Officer (COO)
- * IT Manager
- * General Manager
- * Floor Manager
- * Deputy Chief Planner
- * Chief Executive Officer (CEO)
- * Chief Information Officer (CIO)
- * Corporate Communication Manager
- * Project Manager
- * Production Director
- * Company Director
- * Vice President (Operations)

Entry Qualification and Pathway

- * Polytechnic, university and vocational graduates with a recognized diploma in any technical area may apply to pursue this course.

DIP in Mechanical Engineering
 DIP in Electrical Engineering
 DIP in Civil Engineering
 DIP in Biotechnology
 DIP in Automotive Engineering
 DIP in Architecture
 DIP in Quantity Surveying

BSc (Hons)
 MOT
 Year 2

BSc (Hons)
 MOT
 Year 3

The BINARY “Entrepreneurism” Formula

The best universities in the world can open doors to good jobs. Beyond that point, you are entirely on your own to face the ruthless real world of business.

“At Binary’s STM, we do not just produce ordinary technical managers or IT professionals. We produce entrepreneurial technical managers and entrepreneurial IT professionals using a comprehensive entrepreneurial ecosystem that can transform you to become a highly valuable professional to even the most demanding employers.”

The reality is you will spend two-thirds of your life in a ruthless business world. To be a survivor, you need survival skills. That is why at Binary University, we offer you the Entrepreneurism Pillar; a formula that will arm you with an extensive range of entrepreneurial skills thus transforming you to become innovative, creative, competitive and, resilient.



Other IT -related Courses

The following are postgraduate degrees and executive development programmes offered through the Binary Graduate School or the Binary Executive Education Centre.

- * *PhD (IT)*
- * *MSc Information Technology Management*
- * *MSc Computer Science by research*
- * *Advanced Certificate in Technopreneurship*
- * *Advanced Certificate in Technology Management*





BINARY UNIVERSITY'S NEW CAMPUS