

Bachelor of Science in Computing 电脑学学士学位课程

Specialization 专业范畴	Enterprise Information Systems or Computer Education 企业信息系统或计算机教育
Normal Duration 学制	4 years 4 年

Teaching Language and Mode 授课语言及组别	English/Day time session 英文/日间
Credits Required for Graduation 完成课程所需总学分	150 credits 150 学分



Programme Aims 课程目标

The design of the Bachelor of Science in Computing Programme aims at providing a sound practical knowledge of computing fundamentals and a thorough understanding of the analytical, design, and planning skills associated with the computing profession, and the knowledge of computer education in secondary schools, in order to provide students with the means to compete successfully in the job market as well as to develop their academic competences in pursuing further studies. To broaden the participation of students in their communication with the global IT community, the Programme promotes internship during study, joint student projects with organizations, student activities, and overseas exchanges. Regular seminars, competitions, social gatherings are also held to enhance peer learning among students and further study opportunities.

电脑学学士学位课程旨在提供扎实的电脑学基础知识，让学生能掌握计算机专业分析、提高设计与规划的能力，以及中学计算机教育知识，从而能在就业市场具备充分的竞争力，并为学生今后的学术深造作好充足的准备。为确保学生能紧贴全球 IT 业界的发展，电脑学课程提供在学实习计划、安排学生参与机构的项目、组织学生活动，及开展与国内外的学术交流。电脑学课程亦定期举办学术讲座、研讨会、竞赛、学术交流等活动，以提高学生之间的学习互动，并为他们创造更多继续深造的机会。



Specializations 专业范畴

Students will be given an opportunity to work in a related organization through internship during their study, and apply their acquired IT knowledge and skills for resolving technical challenges through their internship. Student has to choose one of the following specialization areas:

- Computer Education (New)
Aims at providing students with the general and advanced knowledge of computer education and its practicing environment in secondary education. Graduates who have completed this specialization possess the academic qualification for becoming a secondary school teacher of Mainland China. This specialization includes “Introduction to Education”, “Educational Psychology and Counselling”, “Curriculum and Teaching Methods (IT in Secondary Education)”, “Teaching Practice I (IT in Secondary Education)”, and “Teaching Practice II (IT in Secondary Education)”.
- Enterprise Information Systems
Aims at providing students with an in-depth understanding of the information technology related to enterprise information systems, with an emphasis on business processes. This specialization includes “Performance Evaluation”, “Data Warehousing and Data Mining”, “Statistics II”, “Enterprise System and Application Development”, and “Strategic Planning for Information Systems”.

在学期间学生将可到相关机构实习，让他们培养解决技术问题的能力，并得以充分地应用学到的信息技术知识。学生可选择以下任一专业范畴：

- 计算机教育(新增)
学生将全面学习先进的计算机教育技术及在中学计算机教育的应用。本专业的毕业生具有内地初中及高中教师资格的学历条件。本专业范畴科目包括「教育学」、「教育心理与辅导」、「课程与教学法(信息科技中学教育)」、「教学实习 I(信息科技中学教育)」及「教学实习 II(信息科技中学教育)」。
- 企业信息系统
学生将深入学习信息科技和相应的信息系统构建，重点是在商业领域的应用。本专业范畴科目包括「效能评价」、「数据仓库及数据采集」、「统计学 II」、「企业系统应用开发」及「信息系统策略性规划」。



Core Areas of Study 主要学习范畴

Core Subjects

- Computer Systems
- Data Management
- Multimedia
- IS planning, Design and Control
- Mathematics
- Networking
- Programming and Information System Development
- Final Year Project
- English
- Computer Education
- Internship

Specialization Subjects

Student has to choose one of the following specialization areas:

- Enterprise Information Systems
- Computer Education

Elective Subjects

- Advanced Computing courses
- General Studies courses

核心科目

- 计算机系统
- 数据管理
- 多媒体
- 信息计划、设计及管理
- 数学
- 网络
- 编程及信息系统开发
- 毕业报告
- 英文
- 计算机教育
- 实习

专业范畴科目

学生可选择以下任一专业范畴:

- 企业信息系统
- 计算机教育

选修科目

- 进阶计算机专业科目
- 通识科目



International Academic Recognition 国际学术认可

The Computing Programme has successfully achieved higher education academic accreditation granted by the Institution of Engineering and Technology (IET) in 2011 and 2016. Qualified graduate of the Programme partially fulfils the Chartered Engineer (CEng) educational requirement internationally.

Renowned universities abroad such as Queen Mary University of London, UK, and Victoria University, Australia have articulation agreements with the Macao Polytechnic Institute. Graduates of the Computing Programme in MPI can transfer to these universities for further studies. In 2009, the Memorandum of Understanding between the Institute and the University of California, Los Angeles (UCLA) Henry Samueli School of Engineering and Applied Science, was renewed, with a new item for better student exchange programme. The abovementioned agreements should provide our students with more opportunities for further studies abroad.

电脑学课程于二〇一一年及二〇一六年成功通过英国工程技术学会 (IET) 的高等教育学术评审，学生毕业成绩达标后，即具备国际认可工程专业的部分学历资格。

国外著名大学，如英国伦敦大学玛丽皇后学院和澳大利亚维多利亚大学等，已与澳门理工学院签署合作协议。澳门理工学院电脑学课程的毕业生可以到这些大学深造。于二〇〇九年，澳门理工学院与美国加州大学洛杉矶分校亨利·萨缪尔工程及应用科学学院签订了有关更新的合作备忘录，并加入了加强学生交流的条款，为电脑学课程学生提供更多海外升学的机会。

Scholarships 奖、助学金

To attract the registration of Mainland China's best students, MPI also offers the following three types of scholarship: 1) Full Scholarships (including tuition fees, hostel fees, and monthly living subsidy; total amount MOP 69,620.00); 2) Cash Scholarships of MOP 30,000.00; 3) Annual tuition fees waived.

为吸引内地的优秀学生就读本院，学院设有三类奖学金计划。第一类为全额奖学金（包括免学费，免住宿费，另付每月基本生活费），第二类为澳门币 30,000 元的奖学金，第三类为豁免全年学费。获得此三类奖学金的学生如符合条件，可连续四年获得奖助。

Graduate Destinations 毕业生去向

The Bachelor of Science in Computing Programme prepares students who will be equipped to work in the industry as system engineers and programmers, network and system administrators, and computer teachers of secondary schools. For graduates who pursue further studies, they are accepted by renowned universities from all over the world, such as the University of California, Los Angeles (UCLA), the University of London, the University of Melbourne, and the University of Hong Kong, etc.

电脑学学士学位课程为有志投身于业界成为系统工程师、程序员、网络和系统管理员及中学计算机教师等职位的学生作好专业准备。选择继续升学的毕业生广受世界知名大学欢迎，例如：美国加州大学洛杉矶分校、英国伦敦大学、澳洲墨尔本大学、香港大学等。



Teaching Faculty 教学人员	Professor Im Sio Kei, Marcus (President)	严肇基教授 (院长)
	Professor Tse Tan Sim, Rita (Director)	谢丹婵教授 (校长)
	Professor Yip Lee Wah	叶李华教授
	Professor Cheong Ngai, Phillip	张毅教授
	Visiting Professor Laurie Cuthbert	Laurie Cuthbert教授
	Visiting Professor Mario Gerla	Mario Gerla教授
	Visiting Scholar Dr Alan Pearmain	Alan Pearmain博士
	Dr. Lam Chan Tong	林灿堂博士
	Dr. Yung Yau Kong Edmund	容佑江博士
	Dr. Ng Koon Kei, Benjamin	吴冠祺博士
	Dr. Yapeng Wang	王雅鹏博士
	Dr. Xu Yang	杨旭博士
	Dr. Yue Liu	刘玥博士
	Dr. Tang Su Kit, Jacky	邓树杰博士
	Dr. Ines Lau	刘曼玲博士
	Dr. Ke Wei	柯韦博士
	Dr. Choi Ka Cheng	蔡嘉静博士
	Ho Ka Chong, Wilson	何家忠
	Lei Iat Seng, Philip	李日升
	Chan Mei Pou, Calana	陈美宝
Siu Ka Meng, Andrew	萧嘉明	



澳門理工學院
Instituto Politécnico de Macau
Macao Polytechnic Institute

Enquiries 查询

Academic Unit 学术单位 School of Public Administration
Tel. 电话 (853) 8599 3278
Fax 传真 (853) 2871 9227
Email 电邮 esap@ipm.edu.mo
Address 地址 Rua de Luís Gonzaga Gomes
Website 网址 cp.ipm.edu.mo