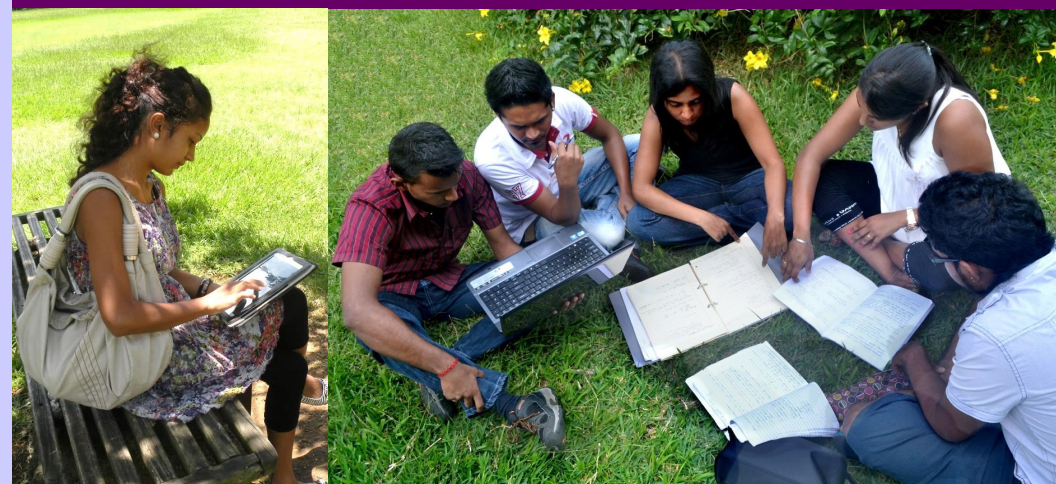




UNIVERSITY OF MAURITIUS

“Our courses can open doors to rewarding and challenging careers in major Information Technology Companies in Mauritius”

FACULTY OF INFORMATION, COMMUNICATION & DIGITAL TECHNOLOGIES



Faculty of Information, Communication and Digital Technologies (FoICDT) has been set-up to essentially respond to the significant human resource needs, in terms of quantity and quality, of the country to make the Information and Communication Technology (ICT) sector the main pillar of the economy. One of the core tasks of the FoICDT is to provide high quality ICT education and training of international standards. A larger pool of highly qualified IT manpower in different field of specialization will help to promote new national and multinational IT companies in Mauritius and increase its global competitiveness.

Departments & Courses

Department of Information Communication Technologies

Course: BSc (Hons) Computer Science

Duration	3 YEARS
Entry Requirements	At least 2 GCE A Level passes, including (i) Mathematics AND (ii) Computing or a Science Subject
Career Prospects	System Programmer, System Administrator, Network Designer or Administrator, Network/IT, Security Analyst, Technical Consultant, Researcher

Department of Digital Technologies

Course: BSc (Hons) Applied Computing

Duration	3 YEARS
Entry Requirements	2 GCE A Level, including either Mathematics or Computing
Career Prospects	Software/application developer, Web/multimedia/ mobile applications developer, database developer, computing specialist in technology, IT Consultancy, IT entrepreneurs and IT innovators

BSc (Hons) Mobile and Smart Technologies

Duration	3 YEARS
Entry Requirements	2 GCE A Level
Career Prospects	Mobile and Web Application developers, developers of smart devices using sensors and IoT, networking and cloud Consultant, IT entrepreneurs, IT innovators

BSc (Hons) Animation and Visual Effects

Duration	3 YEARS
Entry Requirements	2 GCE 'A' level passes in any subject
Career Prospects	Video and Film producer, Animator, 3D Modeler, Editor, Compositor in Media Agencies, Advertising Agencies consultant,

Department of Software & Information Systems

Course: BSc (Hons) Software Engineering

Duration	3 YEARS
Entry Requirements	At least 2 GCE 'A' level Passes including Mathematics
Career Prospects	Software engineers, Software development specialist (Testing, Quality assurance, Maintenance), Software team leaders and Project Managers, through to executive-level positions

Course: BSc (Hons) Information Systems

Duration	3 YEARS
Entry Requirements	At least 2 GCE 'A' level Passes and Credit in Mathematics at SC/'O' level
Career Prospects	Information systems analyst, IT business analyst, Programmer analyst, IS consultant, IS project manager etc.

Course: BSc (Hons) Data Science

Duration	4 YEARS
Entry Requirements	<ul style="list-style-type: none"> Strong academic skills in high school, especially in mathematics and science. High school leaving certificate enabling access to a university. Swiss high-school maturity certificate, European high-school certificate, or equivalent.
Career Prospects	Data modeler; Data Scientist; Information Engineer; Data Analyst; Big Data Engineer; Statistician, Business intelligence reporting professional, Program/Project Manager

Course Summary

Duration	3 YEARS (5 YEARS MAXIMUM)
Entry Requirements	At least 2 GCE A Level passes including (i) Mathematics AND (ii) Computing or a Science Subject
Some Core Modules	Computer Programming, Computer Architecture, Algorithms, Computer Graphics, Operating Systems, Database Design, Web-Centric Computing, Computer Graphics, Computer Network and System Administration, Project on fun topics like IoT devices.
Career Prospects	System Programmer, System Administrator, Network Designer or Administrator, Network/IT, Security Analyst, Technical Consultant, Researcher, Technological lead

Contact Us

University of Mauritius
Faculty of Information Communication and Digital Technologies
Department of Information and Communication Technologies
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University Web site: <https://www.uom.ac.mu/>
Faculty Web site: <https://www.uom.ac.mu/foicdt/>
Department Web site:
<https://www.uom.ac.mu/foicdt/index.php/information-and-communication-technologies-department>
For more information about the courses offered, please go to:
<https://uom.ac.mu/FOICDT/index.php/programmes/undergraduate>



University
of
Mauritius



COMPUTER SCIENCE

DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT)

ICT has an impact on nearly every aspect of our lives and as a matter of fact we are living in a constantly evolving digital world. It is one of the economic development pillars to gain national competitive advantages. The department of ICT aims at providing an innovative and creative future for its graduates and postgraduates to serve the growing needs in ICT towards the transformation of society.

About the Department

ICT is concerned with the definition, representation, processing and communication of information using computer and networking technologies. ICTD has shown great commitment to supporting, improving and transforming the way ICT is used, in response to the growing need for ICT professionals in government, industry and academic institutions. The programmes on offer will help open the doors for students who want to build a successful career as ICT professionals. Additionally the department continues to support the university's effort to identify itself as an institution that fosters excellence in teaching, research and consultancy.

The programmes in ICTD will:

- provide students with the opportunity to explore the spectrum of disciplines that underpins Information and Communication Technology
- equip students with the required array of knowledge and skills needed to take on appropriate professional positions in industry
- allow students to achieve entrepreneurial ambition and/ or pursue research careers in ICT
- go for higher studies in both local and foreign institutions

Additionally, postgraduate programmes such as **MSc Network Security and Management**, will help students gain the competitive edge required in this rapidly converging information and communication world to move ahead in their careers, whether in industry or academia.

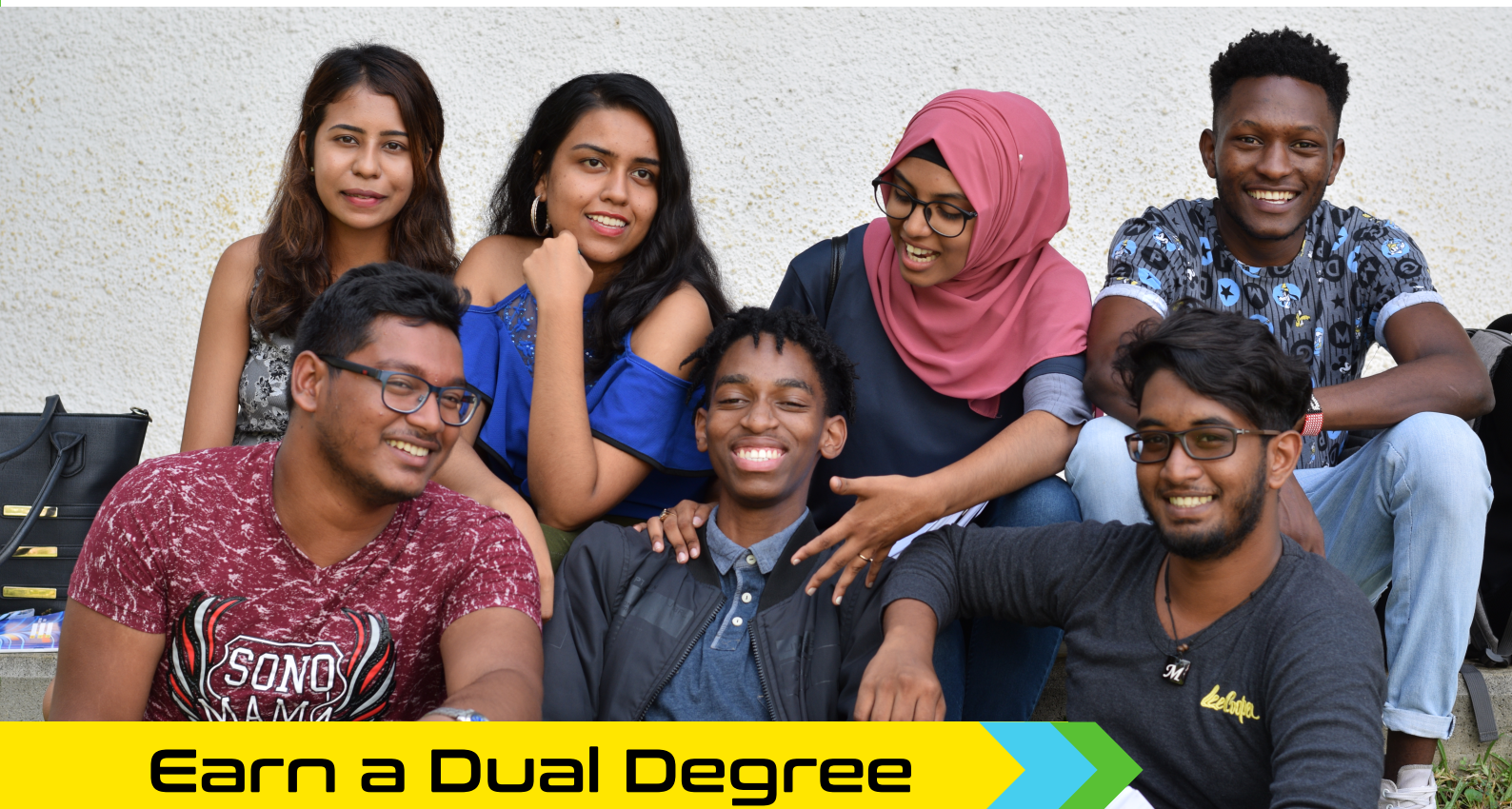
BSc (Hons) Computer Science

Computer science is a fast expanding research and application field that nurtures knowledge and skills for developing innovative ways to harness the power of computing to address problems in almost every discipline and industry sector.

Computer science involves both the theoretical and practical disciplines. The theoretical disciplines include the theory of computation, formal specifications of systems, algorithm complexity and principles behind programming languages. The practical aspects involve understanding the concepts, designing and implementing software at various layers of computer systems. Broadly, these consist of the systems layer and the application layer, but each of these is further subdivided. The systems layer consists of operating systems, networks, middleware and support for concurrent, distributed and parallel processing. The application layer consists of tools supporting software development as well as the actual development of software for various disciplines.

The programme of study is oriented towards training students in the scientific design and technical application of computer systems in the different areas specified above. The curriculum content is designed with ICT industry collaboration to prepare future graduates to join the workforce equipped with up-to-date knowledge and problem solving skills. The programme is in line with international recommendations of computing curricula for Undergraduate Degree programmes in Computer Science.

Please turn over to see summary table about course



Earn a Dual Degree

BSc (Hons) Data Science

This programme is run by the University of Mauritius (UoM) and CY Cergy Paris Universite. At the end of the three-year course, a dual degree from both Universities will be awarded to successful students. The programme is taught by Professors from both Institutions and students are given access access to all the resources such as Libraries, Online Tutoring and Alumni Services.

Duration and Fees

Duration	3 Years	
Fees	Mauritian Students	2,000 Euro per Year + Administrative Fee: Rs 10,000 per Year
	International Students	4,000 Euro per Year

How to apply?

Apply online at: <https://apply.uom.ac.mu/DSPApplication>



Scan Me!

Contacts

Study at the University of Mauritius:

➤ iao@uom.ac.mu

For further information, visit the website:

<https://tinyurl.com/yc6458rx>

Head of Department

➤ Associate Professor Dr R. Sungkur
r.sungkur@uom.ac.mu | 403 7757

Course Summary

Duration

Three (3) Years

Some Core Modules

Computer Programming, Software Verification and Validation, Network Technologies, Software Engineering Principles, Data Structures and Algorithm, Software Project Management, Interactive System Design, Web Application Development, Software Security, Artificial Intelligence, Communication and business skills for IT , Mobile technology, Database Systems, Object Oriented Programming, Agile Principles and Practices, Software Security.

Entry Requirements

At least 2 GCE 'A' level Passes including Mathematics

Career Prospects

Software engineers, Software development specialist (Testing, Quality assurance, Maintenance), Software team leaders and Project Managers, through to executive-level positions

Contact Us

University of Mauritius
Faculty of Information Communication and Digital Technologies
Department of Software and Information Systems
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Web: <http://www.uom.ac.mu/foicdt/index.php/departments/software-and-information-systems>

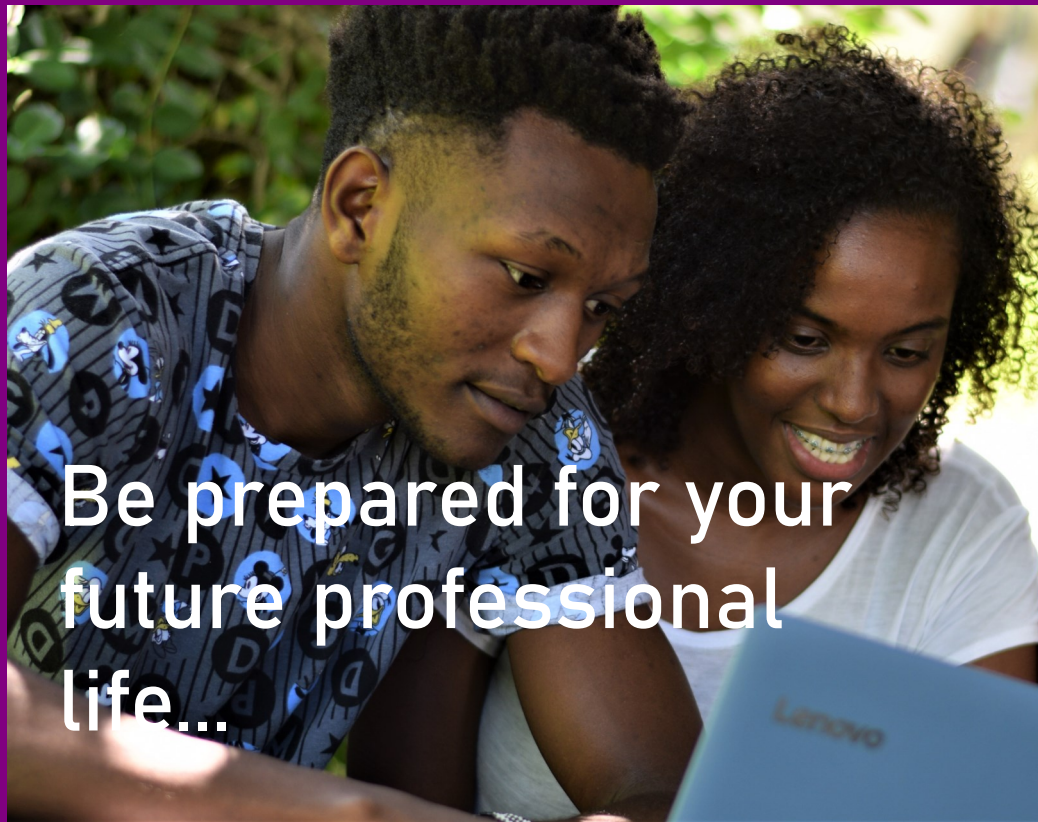
For more information about the courses offered, please go to:
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BSc (Hons) Software Engineering



UNIVERSITY OF MAURITIUS
FACULTY OF INFORMATION, COMMUNICATION AND DIGITAL TECHNOLOGIES
DEPARTMENT OF SOFTWARE AND INFORMATION SYSTEMS



Be prepared for your
future professional
life...

DEPARTMENT OF SOFTWARE & INFORMATION SYSTEMS

If you are passionate about Business Systems, Enterprise Applications, Software Development, Information Management, Knowledge Management, Big Data, Information Systems and related topics, you have come to the right place. Our department has highly motivated and dynamic staff to make your experience at the university exceptional. We provide high quality teaching and support to our students, ensuring that they are able to maximise their potential, think outside the box and achieve great results.

DEVELOP
VERSATILITY,
AGILITY
& LIFE SKILLS

About the Department

The department aims to open up new horizons in informatics through academic research and development. Moreover, the department focusses in producing professionals in diverse areas such as information systems, software engineering, data science, big data analytics and intelligent systems.

The department:

- Offers undergraduate, and postgraduate programmes which are relevant to the industry in the areas related to software engineering and informatics.
- Engages in inter-disciplinary research and consultancy for international and national projects.
- Contributes to build innovative solutions for a smart society.
- Participates in the development of national policies related to software engineering and informatics.
- Promotes an innovative research culture through synergistic partnership with industry and all relevant stakeholders focusing on leading edge computing technologies.
- Generates revenue through training, consultancy and research.

As a department, we are proud of our achievements and we hope you are excited to find out more. We are looking forward to hearing from you, to meet you and for you to eventually join our department.

BSc (Hons) Software Engineering

The programme of study concentrates more on the skills needed for a career in the software industry by focusing on the process of building software to a specification. The course will cover all the fundamental topics that any IT students should know to be able to become a professional in the IT sector. Software Engineering is a field that deals with high-level designs and solutions that guide the development of specific software projects or product. The programme of study concentrates more on technical skills that a software engineer should possess covering aspects like design, implementation and project management. It also brings in real-world concepts like completing work started by other teams, and also working collaboratively with other teams – all of which are things that are common practice in industry. The Programme provides for 10 weeks Industrial Training to help the students develop the professional skill sets required to work in the Information Technology Industry

Course Summary

Duration

Three (3) Years

Entry Requirements

At least 2 GCE 'A' level Passes and Credit in Mathematics at SC/'O' level

Some Core Modules

Programming, Information Systems Innovations and Web Technologies, E-Business and Digital Marketing,, Analytical techniques for Information Systems, Enterprise Application Development, Databases and Information Management, System Analysis and Design, Enterprise Systems, Software Project Management, Business Intelligence and Big Data Analytics, Information Retrieval and Knowledge Engineering, Information Systems Security

Career Prospects

Information systems analyst, IT business analyst, Programmer analyst, IS consultant, IS project manager etc.

Contact Us

University of Mauritius

Faculty of Information Communication and Digital Technologies

Department of Software and Information Systems

Head of Department: Associate Professor Dr R. Sungkur

Phone: 4037757

Email: r.sungkur@uom.ac.mu

Web: <https://www.uom.ac.mu/foicdt/index.php/software-and-information-systems>

For more information about the courses offered, please go to:

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BSc (Hons) Information Systems



UNIVERSITY OF MAURITIUS

FACULTY OF INFORMATION, COMMUNICATION AND DIGITAL TECHNOLOGIES
DEPARTMENT OF SOFTWARE AND INFORMATION SYSTEMS



Be prepared for your
future professional

DEPARTMENT OF SOFTWARE & INFORMATION SYSTEMS

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- Participates in the development of national policies related to software engineering and informatics.
- Promotes an innovative research culture through synergistic partnership with industry and all relevant stakeholders focusing on leading edge

BSc (Hons) Information Systems

The field of Information systems (IS) focuses on technology enabled business development whereby IS professionals require both technical and organisational expertise for systems analysis and design, business process management, systems implementation, and IS project management. Information systems facilitate and influence business operations and innovation, thus contributing to create new business models and services. The programme of study will impart to prospective students the knowledge and analytical skills to develop and manage business information systems with adequate understanding of the required concepts, technology and the organisational environment. This course integrates business and information, as well as computing technology, to deal with analysis, design, implementation and management of information systems. The Programme provides for 10 weeks Industrial Training to help the students develop the professional skill sets required to work in the Information Technology Industry

Course Summary

Duration	3 YEARS
Entry Requirements	2 GCE A Level, including either Mathematics or Computing
Some Core Modules	Programming and Data Structures ~ Database Systems and Administration ~ Web Design and Development ~ Multimedia Authoring and Development ~ Software Modelling and Design
Career Prospects	Software/application developer, Web/multimedia/ mobile applications developer, database developer, computing specialist in technology, IT Consultancy, IT entrepreneurs and IT innovators etc.

Contact Us

University of Mauritius

Faculty of Information Communication and Digital Technologies

Department of Digital Technologies

Head of Department: Mr. A. Chiniah

Phone: 403 7863

Email: a.chiniah@uom.ac.mu

University Web site: <http://www.uom.ac.mu/>

Faculty Web site: <http://www.uom.ac.mu/foicdt/>

Department Web site: <https://www.uom.ac.mu/foicdt/index.php/digital-technologies-department>

For more information about the courses offered, please go to:
<https://www.uom.ac.mu/foicdt/index.php/dtprogrammes>



APPLIED COMPUTING

DEPARTMENT OF DIGITAL TECHNOLOGIES

Our mission at the Department of Digital Technologies is to provide excellent higher education and training within the different areas of applied information technology and digital technology. Central to our mission is to sustain the strong research culture within the department to remain at the forefront of technological advancement. Digital Technology is a rapidly growing field with a wide range of job opportunities in Mauritius and globally. Prospective students are those who enjoy problem solving using digital technologies. If you aspire to a successful professional career in IT, then join us at the department of Digital Technologies.

About the Department

The department of Digital Technologies offers both undergraduate and postgraduate studies focusing on information and digital technologies such as mobile technologies, web technologies, cloud computing technologies, internet of things, social computing, computer graphics, multimedia, virtual reality, game development, health informatics and bioinformatics. The department also offers professional training courses which current students, non-computing graduates as well as professionals take in order to increase their employability and to remain at frontline of technological innovations.

Our programmes are developed in close collaboration with leading international IT companies. We prepare graduates to adapt to the changing needs of the IT industry by developing a strong base of technical knowledge. In addition, all programmes offered by the department emphasize soft skills and team development as well as entrepreneurship. We want our graduates to be versatile and multi-talented which are important qualities for a successful professional career in the IT industry.

Academics at the Department of Digital Technologies are actively involved in research work in various areas of digital technologies such as mobile technologies, cloud computing, internet of things, sensor systems, health informatics and bioinformatics. Our academics are extremely committed to conducting high-quality research and developing a vibrant research culture among students. Our mission is to conduct both fundamental and cutting-edge applied research in order to generate new knowledge that meets the emerging needs of the Mauritian knowledge-based economy and society at large.

BSc (Hons) Applied Computing

This programme aims at producing graduates with practical knowledge and skills to develop, enhance and maintain computing applications by applying classic and leading edge computing concepts and technologies. The programme provides students with a solid grounding in areas such as programming, database systems, Internet technologies and use of IT in areas such as Health, Finance and Environment. Upon successful completion of the programme, students will be able to conduct application driven research work independently within academia or industry for applied computing problems; to apply theories, principles and concepts together with technologies to creatively design, develop, and verify computational solutions; and to take leadership roles with good knowledge of software development and applications in inter-and cross-disciplinary areas.

Please turn over to see summary table about course

Course Summary

Duration	3 YEARS
Entry Requirements	2 GCE A Level
Some Core Modules	Problem Solving Techniques (Programming), Front-End Web and HCI, Mobile Application Development, Network Fundamentals, Back-end and Web Services, Object Oriented Programming, Smart Technologies and Internet of Things
Career Prospects	Mobile and Web Application developers, developers of smart devices using sensors and IoT, networking and cloud Consultant, IT entrepreneurs, IT innovators, etc.

Contact Us

University of Mauritius

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Mobile & Smart Technologies

DEPARTMENT OF DIGITAL TECHNOLOGIES

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BSc (Hons) Mobile and Smart Technologies.

With greater availability of internet connectivity, modern software applications are increasingly being developed as mobile and web-enabled. The accessibility of mobile devices and the internet has drastically changed the way we communicate, work, do business, access and gather information. Increasingly smart technologies (IoT, Sensors, Smart TV, Smart Aircon, Smart Light, etc) are incorporated in our daily life in such a way that they become seamless but yet important. This programme aims at reducing this skill gap by producing graduates with the necessary competence to develop, enhance and maintain mobile, web applications and smart devices by applying state of the art and leading edge concepts and technologies to meet today's industry needs

Please turn over to see summary table about course

Course Summary

Duration	3 YEARS
Entry Requirements	2 GCE 'A' level passes in any subject
Some Core Modules	Drawing and Storyboarding, Lights & Photography, 3D Character Modelling and Animation, Dynamics and Visual Effects, Motion Graphics and Compositing, Digital Media Development, Film and Sound Editing techniques
Career Prospects	Video and Film producer, Animator, 3D Modeler, Editor, Compositor in Media Agencies, Advertising Agencies consultant, etc.

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Animation and Visual Effects

DEPARTMENT OF DIGITAL TECHNOLOGIES

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BSc (Hons) Animation and Visual Effects

Mauritius is looking forward to invest in the film industry. Such an industry will not only promote the Mauritian cinema locally and internationally but also be a magnet for outsourced film projects - especially in the realm of visual effects applications and animations - from production houses worldwide.

This programme of studies aims at producing graduates with practical knowledge and skills to develop full-fledged animation and visual effects (VFX) films for the industry by providing students with a solid grounding in areas such as Digital Graphics, 3D Animation and Visual Effects, Photography and Film Editing.

Please turn over to see summary table about course