

mt.ideaeducation.com



# B.Sc. in Computing

MQF Level 6 | 180 ECTS





ACADEMY



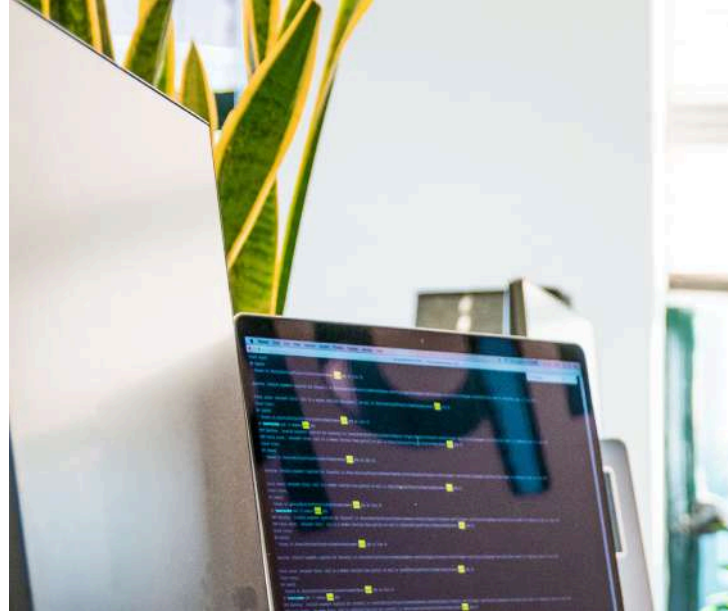
## ABOUT US

Founded in 2005 as IDEA Leadership and Management Institute, IDEA Academy has since evolved into one of Malta's leading higher education institutions accredited by the Malta Further and Higher Education Authority. We offer a selection of accredited, industry-led programmes in a wide variety of fields, from foundation programmes right up to doctorate.

Our mission is to provide quality, industry-driven education to adult students who are already practitioners and professionals. In doing so, we adopt a student-centric blended approach to learning that is flexible and allows one to balance between personal, professional, and student life.



**ALSO  
AVAILABLE  
ONLINE**



# B.Sc. in Computing

MQF Level 6 | 180 ECTS

## COURSE DESCRIPTION

The Bachelor of Science in Computing is a practical qualification that will prepare you for a successful career in IT and computing.

The programme will cover areas such as mathematics, programming, data analytics, software development, data structures, computer systems, website design and development, and database design and implementation, amongst many other topics.

In your second year of study, you will have the opportunity to tailor the programme to reflect your particular interests or career aspirations by specialising in one of three areas: digital marketing, blockchain or intelligent systems.

## TARGET AUDIENCE

---

This course is targeted at:

- individuals seeking academic and professional advancement in computing;
- mid-career break professionals looking for opportunities to return or change their career.

## CAREER PATHS

---

The possible positions for which this programme aims to prepare you for include, but are not limited to:

- database administrator
- IT technical support officer
- applications programmer
- systems programmer
- systems analyst
- programmer

## ENTRY REQUIREMENTS

---

Candidates who apply for this course must be in possession of the following:

- a qualification at EQF Level 4 in subjects related to Mathematics, Science or Computing (minimum two 'A' Levels or equivalent);

### AND

- a pass in English at EQF Level 3 ('O' Level or equivalent).

## STRUCTURE & ASSESSMENT

---

This is a part-time programme and will typically take 39 months to complete. The method of assessment is assignment-based.

### The course comprises:

- 6 lectures per module (twice a week);
- 3-hour lectures;
- 12 hours of guided learning, presentations, comprising synchronous online discussions, tutorials and/or videos;
- Self-study hours comprising research, reading and assignment work.



### Claudio Cauchi | Higher Diploma in Business Management

BB After many years – probably too many – I accepted the fact that I had to improve academically in order to get better career opportunities, as experience alone was not enough.

I knew that juggling family, work and study commitments would be a challenge and therefore finding the right institution that could understand these realities was crucial for me to ensure that I would succeed.

IDEA Academy has indeed ticked all the right boxes. The lecturers were all very knowledgeable and, more importantly, they provided everyday life examples that we could relate to. I also appreciated the Academy's administration. They were extremely supportive and were always willing to listen to our suggestions and address any queries in an efficient and timely manner.



#### Industry-driven courses

Our lecturers also have hands-on experience in the respective fields that they teach. This enables them to provide students with real life examples that may be applied to the workplace.



#### Fits perfectly to one's life

All our courses are held on a part-time basis, with lessons taking place once or twice a week, depending on the course chosen. This ensures that there is flexibility to one's personal and professional life.



### Kevin Camilleri | Higher Diploma in Business Management

BB The lecturers speak our language. You will not be an outsider in class, you are not merely a number – you are their valued student. They understand us and have first-hand experience in our field. Thank you IDEA Academy for this opportunity!



### RoseMary Portelli | Higher Diploma in Business Management

☞ Sometimes, uncomfortable things happen in life that serve to put us directly on the right path to the best thing that will ever happen to us. There I was one day, stuck in a traffic jam, when a huge billboard advertisement caught my attention.

My dream to further develop my knowledge through education in Business Management was right there in front of me. A billboard and a phone call later, plus ample doses of commitment and willingness, and my journey started there.

The lecturers are very qualified, passionate and respectful, full of advice and keen to teach. The course material is very comprehensive and informative. I can testify that IDEA Academy sets out high standards, helping us students to develop our overall character, as well as our academic achievements.



#### Payment plans and funding schemes

We offer the possibility for our students to pay in instalments or to design their own payment plan, completely interest-free. There are also schemes where one can get at least 70% of the course fees back.



#### Blended learning

A mix of lecture-led classroom activities and online learning allows students the flexibility to customise their learning experiences.



### Miriam Mifsud | Higher Diploma in HR Management

☞ After a long break from studying, I decided to leave my comfort zone and embark upon a new adventure. But I must say that as soon as the lectures started, I felt at home, and help was forthcoming both from the students – whom I now call my friends – as well as from my lecturers. I am proud to have made the right decision for both my personal goals and for my career.

This course served as a growth plan to new projects and to whatever the future has in store for me. Life is all about growing, and this course led me to new opportunities and to continue growing and learning new skills that I can employ in both my personal life and at the workplace.



## COURSE PROGRESSION MAP

The following progression map depicts your journey towards achieving the B.Sc. in Computing. The map illustrates the interim exit points that lead up to the full bachelor's degree (180 ECTS).

### Complete 5 compulsory modules

EQF 5  
30 ECTS

Certificate in  
Computing  
Duration: 6 months

### Complete 10 compulsory modules

EQF 5  
60 ECTS

Diploma in  
Computing  
Duration: 12 months

### Complete 15 compulsory modules + 1 area of specialisation

EQF 5  
120 ECTS

Higher Diploma in  
Computing  
Duration: 24 months

### Complete all compulsory modules + 1 area of specialisation + dissertation

EQF 6  
180 ECTS

B.Sc. in  
Computing  
Duration: 39 months

## COST

Reading for the entire Bachelor of Science (B.Sc.) in Computing as presented in this brochure costs €9,000.\*

The cost for the different exit points is as follows:

- Certificate in Computing: €2,000
- Diploma in Computing: €4,000
- Higher Diploma in Computing: €6,000

Upon successful completion of this course, students will be eligible for a 70% refund of the cost through the 'Get Qualified' scheme.\*\*

Due to the modular structure of the course, you may also opt to take individual modules as stand-alone. The entry requirements still apply.\*\*\*

\* Prices are applicable to students who already reside in Malta at the time of the application.

\*\* Terms and Conditions apply.

\*\*\* For the price of individual modules, please contact the IDEA Academy team.

## PROGRAMME OUTLINE

MODULE/UNIT TITLE	COMPULSORY OR ELECTIVE	ECTS
1. Academic Writing	Compulsory	6 ECTS
2. Mathematics 1	Compulsory	6 ECTS
3. Programming	Compulsory	6 ECTS
4. Website Design and Development	Compulsory	6 ECTS
5. Computer Systems Architectures	Compulsory	6 ECTS
6. Data Analytics	Compulsory	6 ECTS
7. Operating Systems	Compulsory	6 ECTS
8. Client/Server Computing Systems	Compulsory	6 ECTS
9. Computer Networks	Compulsory	6 ECTS
10. Software Development Lifecycles	Compulsory	6 ECTS
11. Mathematics 2	Compulsory	6 ECTS
12. Discrete Mathematics	Compulsory	6 ECTS
13. Artificial Intelligence	Compulsory	6 ECTS
14. Data Structures and Algorithms	Compulsory	6 ECTS
15. Database Design and Implementation	Compulsory	6 ECTS
16. Principles of Marketing	Digital Marketing Major - Specialisation	6 ECTS
17. Digital Marketing		6 ECTS
18. Marketing Analytics and Data Science		6 ECTS
19. Social Media Practice		6 ECTS
20. Optimising your Digital Presence		6 ECTS
21. Introduction to Blockchain Technology	Blockchain Major - Specialisation	6 ECTS
22. Essentials of Disruptive Technology and Innovation		6 ECTS
23. Introduction to Cryptocurrency		6 ECTS
24. Regulation and Cryptocurrency in the Modern World		6 ECTS
25. Cryptographic Security		6 ECTS
26. Business Intelligence	Intelligent Systems - Specialisation	6 ECTS
27. Knowledge Representation and Automated Reasoning		12 ECTS
28. Natural Language Processing		6 ECTS
29. Machine Learning		6 ECTS
30. Research Methods in Computer Science	Compulsory	6 ECTS
31. Security	Compulsory	6 ECTS
32. Advanced Programming	Compulsory	6 ECTS
33. The Internet of Things (IoT)	Compulsory	6 ECTS
34. Advanced Algorithms	Compulsory	6 ECTS
35. Database Management Systems	Compulsory	6 ECTS
36. Data Mining	Compulsory	6 ECTS
37. Dissertation	Compulsory	<b>18 ECTS</b>

You are required to complete all compulsory modules (132 ECTS), and only 1 selected area of specialisation (30 ECTS), as well as the dissertation (18 ECTS) to fulfil the requirements of this bachelor's degree.

**Total credits: 180**



# Change your life without disrupting your career.

Student-centric, industry-driven study programmes that equip you with the tools to help you stand out at your workplace.



[mt.ideaeducation.com](https://www.mt.ideaeducation.com)

IDEA Academy is licensed by the Malta Further and Higher Education Authority (MFHEA).  
Licence number: 2014-FHI-015

IDEA Group  
Level 2, The Business Centre,  
1, Triq Nikol Muscat, Mosta  
MST 1870  
Malta

+356 2145 6310  
[info@ideaeducation.com](mailto:info@ideaeducation.com)