

Degree courses

Management engineering

Bachelor's degree

www.liuc.it



GPU
12 %

MEMORY
56 %
8.7/16 GB

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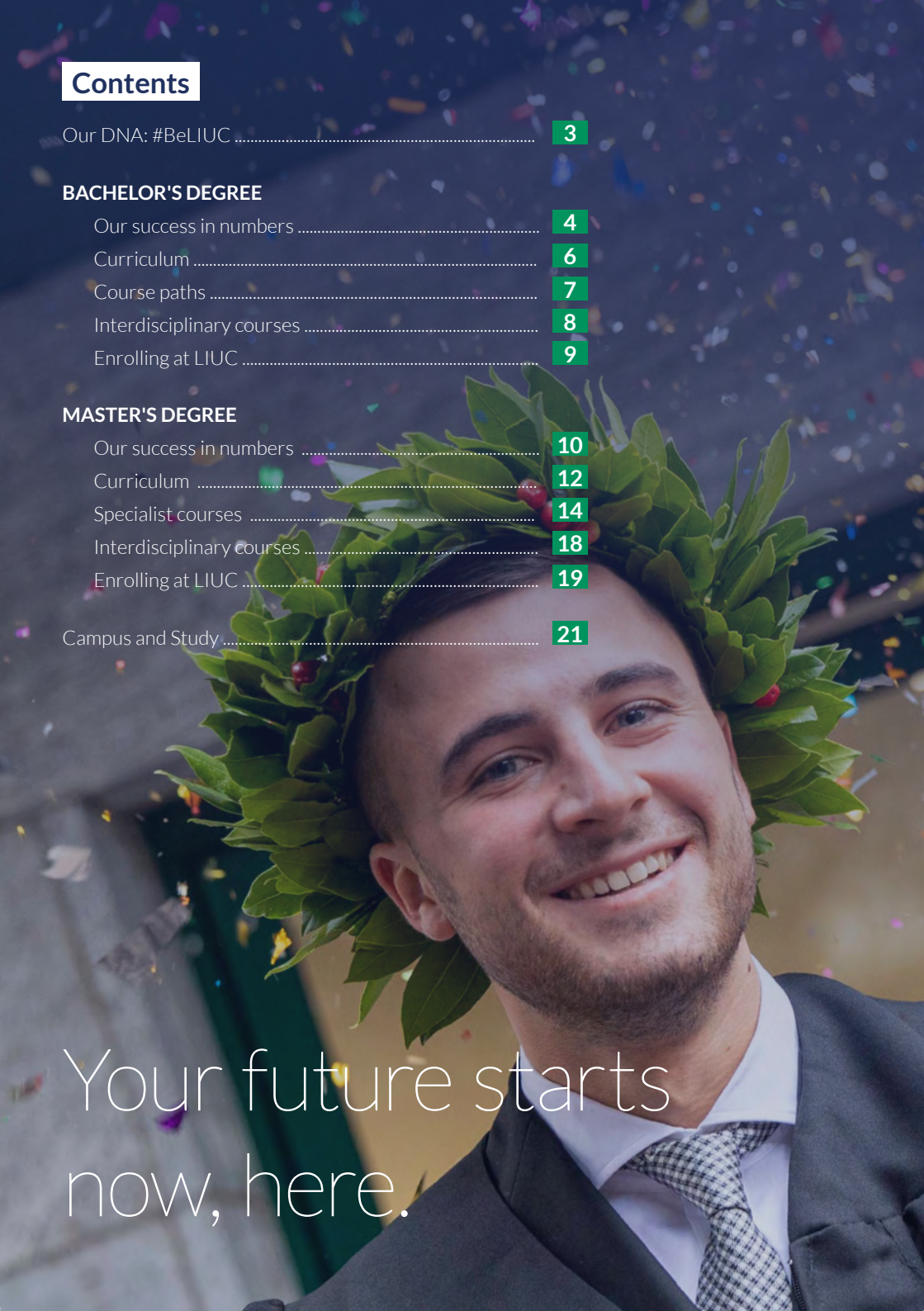
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Your future starts
now, here.





A unique and distinctive business school

LIUC stands out from its competitors thanks to the interrelationships and synergies between the degree courses in Economics, Management Engineering, PhD and Executive Education activities and thanks to its close ties with businesses, the economy and institutions;



People first

LIUC always puts the students first, ensuring attention and care in teaching, services, the campus, opportunities for international comparison and relations with stakeholders;



Ongoing academic growth

LIUC aims for constant academic growth, evidenced in its high standards in teaching, research and third mission activities at national and international level;



Innovation

LIUC constantly invests in innovation in teaching and in various areas of institutional commitment;



Sustainability

LIUC promotes sustainability and the values of inclusion, merit, employability, and equality.

BACHELOR'S DEGREE

BACHELOR'S DEGREE: MANAGEMENT ENGINEERING

LIUC in numbers



ASSESSMENT OF THE UNIVERSITY EXPERIENCE*

87% of students would re-enrol at LIUC



EXPERIENCE ABROAD**

100% of requests for study abroad by eligible students are fulfilled



INTERNSHIPS*

91,3% of students choose to do a curricular placement in their third year



* *AlmaLaurea Inter-University Consortium Survey 2023*

** *data referring to the academic year 2021-2022*

Why study management engineering?

Management engineers are among the most sought-after **professionals in today's employment market**.

They are key to the growth and development of companies and public and private organisations thanks to their ability to integrate the technological skills typical of the engineer with managerial skills.

The School of Management Engineering at LIUC - Università Cattaneo therefore aims to train students capable of adapting to different contexts and managing complex systems, by attaining a solid knowledge base in engineering and key management principles, together with interdisciplinary skills, such as the ability to **work in a team, critical thinking, attention to environmental and social sustainability issues, and multi-disciplinarity**.



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Why choose LIUC?



PRACTICAL
TEACHING

FOCUS ON
THE STUDENT



INTERNATIONAL
EXPERIENCE



PERSONALISED
STUDY PLAN



DEVELOPING
INTERDISCIPLINARY
SKILLS



To obtain a **Bachelor's Degree in Management Engineering**, you have to choose between two paths: an Italian-language path and an English-language path.

Study plan

Italian language course with two specialisations



I anno		II anno		III anno	
1° semestre	2° semestre	1° semestre	2° semestre	1° semestre	2° semestre
Analisi matematica 15 CFU		Servizi energetici per l'industria 9 CFU		Insegnamenti di specializzazione e laboratori - Operational Excellence Industriale - Business Design nell'Era Digitale 24 CFU	
Fisica generale e basi di chimica 15 CFU		Fondamenti di ingegneria elettrica ed elettronica 10 CFU			
Analisi dei dati sperimentali e statistica 9 CFU		Fondamenti di automatica 6 CFU	Gestione dell'informazione 6 CFU	Logistica 6 CFU	
Informatica 9 CFU		Ricerca operativa per le applicazioni industriali 6 CFU	Decisioni di Impresa B: Analisi della competizione e del mercato 6 CFU	Gestione e controllo dei processi aziendali 10 CFU	Gestione dell'Impresa Sostenibile 6 CFU
Lingua inglese 3 CFU		Decisioni di Impresa A: modelli e strumenti 9 CFU	Gestione della produzione 9 CFU	Prova finale 4 CFU	
Insegnamenti a scelta 12 CFU				Tirocinio o insegnamenti utili per l'inserimento nel mondo del lavoro 6 CFU	
Insegnamenti extra-curricolari					

Applied sciences and technology courses

General engineering courses

Distinguishing courses of management engineering

Interdisciplinary courses

CFU = University educational credits

N.B: See the website for further details and updates www.liuc.it

Specialisations

From the third year you can choose between **two specialisations**: **Industrial Operational Excellence** and **Business Design in the Digital Age**.

INDUSTRIAL OPERATIONAL EXCELLENCE



The course is aimed at students who want to develop **skills that are increasingly valued by companies operating in various industrial sectors**, which are a fundamental prerequisite for the **implementation of the Industry 4.0** paradigm and for **sustainable and circular transition**. Consistent with the typical applications of management engineering, relating to production and logistics processes in the manufacturing sector, the course contributes to the development of:

- skills to manage production processes that are first-class from the point of view of efficiency and effective performance, i.e. designed with Lean and Six Sigma in mind;
- knowledge of the main production technologies used in the manufacturing sector.

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BUSINESS DESIGN IN THE DIGITAL AGE



The course is aimed at students who want to **develop digital management skills that cut across industry sectors** and functional areas of organisations. The course contributes to the development of:

- knowledge of the characteristics and dynamics of innovation in the service sector;
- skills for the implementation and design of services to complement physical products in companies in the manufacturing sector.

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Study plan

English language course with one specialisation

From the third year students specialise in **Industrial Operational Excellence**



I year		II year		III year	
1° semester	2° semester	1° semester	2° semester	1° semester	2° semester
Mathematical Analysis 15 CFU	Physics & Chemistry 15 CFU	Business Decision Making I 9 CFU	Operations Management 9 CFU	Manufacturing Systems 6 CFU	Logistics 6 CFU
Computer Science 9 CFU	Statistical Methods 9 CFU	Operations Research 6 CFU	Business Decision Making II 6 CFU	Lean Manufacturing 6 CFU	Thesis 4 CFU
Elective courses 9 CFU + Italian Culture 3 CFU		Electrical and Electronic Engineering 10 CFU	Energy Services for Industry 9 CFU	Quality Design and Management 6 CFU	Internship 6 CFU
		Automatical Control 6 CFU	Information Structure & Management 9 CFU	Introduction to Sustainability 6 CFU	Operational Excellence Lab 6 CFU
		Elective courses 3 CFU		Business Process Management & Control 10 CFU	

 Applied sciences and technology courses

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To undertake the English language course, students must have taken the **TOEFL IBT examination with a score of 80/120** (or an equivalent examination) or have completed a full school year in English.



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Interdisciplinary Courses

From the first year, students can customise their study plan by choosing subjects and activities within the following **interdisciplinary courses**:

- **Sustainability (SOS)**, devoted to sustainable, environmental and social development issues and their bearing on a management engineer's decisions;
- **Science, Technology and Society (STS)**, aimed at bridging the divide between humanistic and scientific cultures by promoting interdisciplinary integration, civic engagement and critical thinking;
- **Professional and personal skills development (PRO)**, dedicated to the development of cognitive and meta-cognitive and social skills.

You will be able to develop these interdisciplinary skills through dedicated lectures, teaching modules and extra-curricular activities (e.g. participation in seminars, events, focus groups, contests, projects).



**BUSINESS
DESIGN IN
THE DIGITAL
AGE**

**OPERATIONAL
EXCELLENCE
INDUSTRIALE**



**INDUSTRIAL
OPERATIONAL
EXCELLENCE**

**EXTRA-
CURRICULAR
ACTIVITIES**



Sustainability (SOS)



Science, Technology and Society (STS)



**Professional and personal skills
development (PRO)**



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ADMISSIONS

For admission, it is compulsory to take the TOLC-I test, provided by CISIA (Consorzio Interuniversitario Sistemi Integrati per l'Accesso) in all member universities, aimed at verifying knowledge for admission to university courses.

The test can be taken by students in the 4th and 5th year of high school.

The test consists of four sections (mathematics, logic, science, verbal comprehension), plus an English test.

To prepare, students can take a mock exam online on the CISIA website (<http://www.cisiaonline.it/>).



BURSARIES

Various support measures are available: bursaries based on **income and merit** (with an I.S.E.E. certificate); scholarships based on merit alone; accommodation and canteen contributions awarded to students eligible for the Lombardy Region fund; internship contributions from Varese Chamber of Commerce funds or private funds. It is possible to **obtain total exemption** from paying university fees by applying to enter the competition for regional funding. The requirements for applying for bursaries are available in the notices published at www.liuc.it/borse

For information contact: dirstud@liuc.it



At LIUC, merit counts... and there are discounts!

Are you a good student? Come to LIUC, a **discount of EUR € 3,000** is waiting for you!

Hurry up and **pre-register**, places are limited!

Find out more



N.B: See the website for further details and updates www.liuc.it



“Never consider study as
a duty, but as an enviable
opportunity.”

Albert Einstein



STUDYING ABROAD

Internationalisation is one of the central aspects of LIUC's mission and activities. Thanks to **partnerships with 153 universities in 44 European and non-European countries**, all students can enjoy an international mobility experience (Erasmus, Exchange, Double Degree), representing added value for their professional and personal training. LIUC is an examination centre for the TOEFL and Cambridge Language Certificates.



CAREER SERVICE

Classroom training is complemented with the possibility of internships facilitated by the Career Service. Thanks to its relationships with 6,500 companies, the Career Service contributes to a quick and satisfying job placement, with **employment times of around two months after graduation**. From experiential activities to the personal career advisor, from simulated job interviews to internships, in Italy or abroad, and the Career Opportunity Day, contact with the world of work is a pillar of LIUC.



UNIVERSITY RESIDENCE

The Carlo Pomini University Residence is the ideal place to live the LIUC experience in the heart of the University. Away from the chaos and just a stone's throw from Milan. It has **250 rooms** (single and double), offers numerous recreational and social opportunities and allows Italian and international students to enjoy all the comforts of a structure designed on the model of a traditional Anglo-Saxon campus.



LIBRARY

The Mario Rostoni Library plays an active role in **supporting research and teaching** and in promoting the cultural growth of the university community and the region. Through numerous courses, the library offers students the opportunity to learn how to carry out research and make effective use of the available documentation.



TUTORING

Highly appreciated by students, tutoring is a **support** that involves individual or group meetings to clarify key concepts and refine study method.

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I-FAB LABORATORY

LIUC's i-FAB is a **1.1-scale simulated factory** designed according to "lean production" logic and applying the pillars of the industry 4.0 paradigm (Internet of Things, mobile and collaborative robots, data analytics, simulation, virtual reality and additive manufacturing). Through i-FAB, LIUC students can learn how to apply new concepts of industrial production to improve a company's operational performance.



DEBATE, critical thinking

Useful for developing the critical, argumentative and communicative skills that are fundamental for dealing with complex organisational contexts such as companies, debate is a didactic interaction between several people on a given topic, the reasons for argumentation must be supported through speaking skills and robust documentation.



LIUC Sport

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C.LAB by ComoNEXT – Innovation Hub with LIUC - Università Cattaneo

This meeting place between universities and businesses is a project and a physical space. It is aimed at students in order to stimulate, collect, evaluate and select innovative ideas with an entrepreneurial vocation to be developed through a mentoring process with ComoNEXT, an incubator certified by the Ministry of Economic Development.

 **WORKSHOPS WITH COMPANIES**

Initiatives co-designed and co-managed by university and companies on topics that are an integral part of the curriculum. Classroom hours alternate with experiential activities in LIUC laboratories (computer or i-FAB) and in companies, working in groups on projects proposed by the companies.

 **LANGUAGE CENTRE**

The centre coordinates and promotes training in foreign languages which are increasingly indispensable for operating in the world on both a personal and professional level.

The teachers are native speakers (French, English, Spanish and German). LIUC is an examination venue for some of the major accredited certifications.

 **INCLUSION AND WELL-BEING**

The Counselling and Well-Being Department is an innovation that aims to help students acquire market responsive skills, looking at 'knowing how to be' and not just 'knowing how to do'.



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LIUC Alumni

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