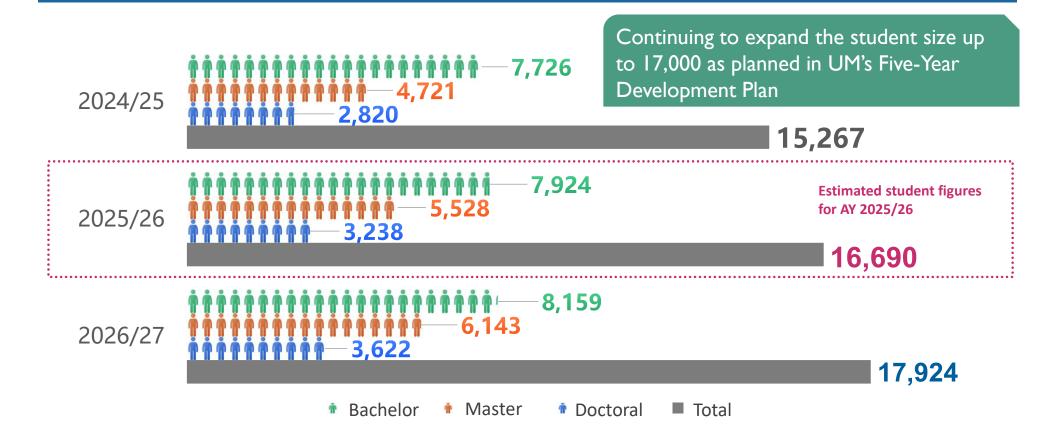


Prof. Yonghua Song Rector

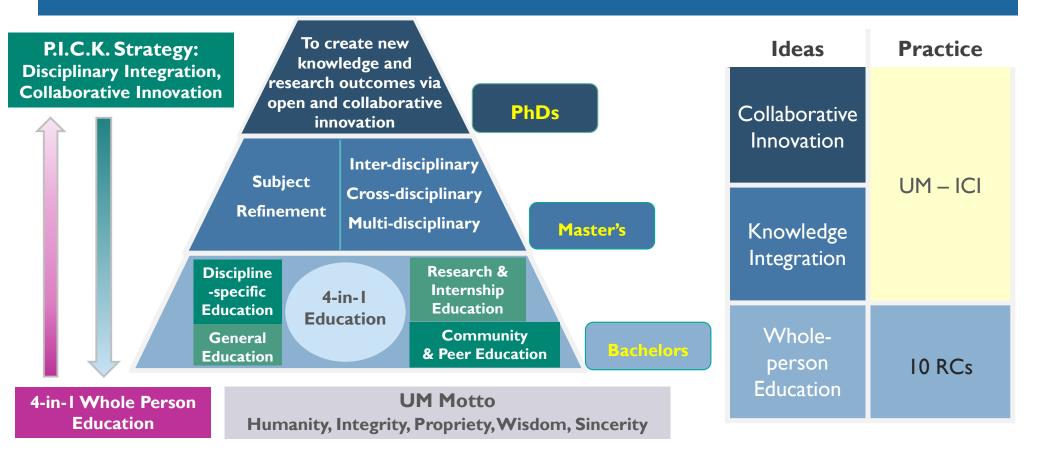
- Academic Affairs
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An Expanding Student Body



UM's Talents Nurturing System



Disciplines and Curriculum Development

New programmes in AY2025/26

- Master of Design in Visual Communication Design
- Master of Science in Fire Safety and Disaster Response
- Doctor of Design in Visual Communication Design
- Doctor of Philosophy in Brain and Cognitive Sciences





Expected to launch in AY2026/27 and 2027/28

- Master of Philosophy in Pharmaceutical Sciences
- Master of Science in Artificial Intelligence and Education
- Master of Science in Smart Power Grid
- Master of Law in Law and Technology
- Master and Doctor of Design in Industrial Design

Enhancing the GE curriculum

- Introducing new courses related to Al and climate change.
- To review compulsory courses: 'Macao and the Chinese Civilisation in a Global Context' and 'Law and Society'.
- To establish a General Education Teaching Award.

Nurturing Talents Needed for Social Development

Training governance professionals for the SAR Government

Public Administration Training Centre: enhancing systematic training that combines theory and practice.

Strengthening the construction of Science and Innovation Education Base

UM Macao Base for Primary & Secondary STEM Education:

strengthening and carrying out research on science popularization with distinguishing features of Macao and facilitating the development of a Sino-Portuguese platform for science pupularization.

Cultivating high-level tourism management professionals

Implementing the educational concept of "UM Tourism+".

Nurturing Chinese and Portuguese bilingual talents

Chinese-Portuguese Bilingual Teaching and Training

Centre: nurturing bilingual talents, producing teaching materials in Chinese and Portuguese, and bringing traditional Chinese culture to the Portuguese-speaking countries.

Providing high quality programmess to the community

Centre for Continuing Education: providing high quality programmes to the community, and meeting the needs of government departments, organizations and industries.

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Research Strategy: PICK

Problem Orientation

Conduct research on global, regional and local frontier challenges to serve the community.

nterdisciplinary Partnership



Integrate knowledge of various fields through interdisciplinary partnership to solve complex frontier challenges.

Collaborative Innovation



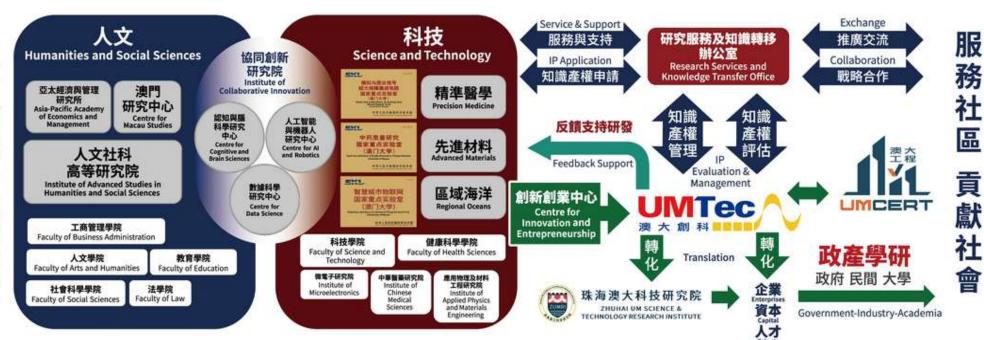
Create an open, cooperative and resource-sharing innovative model which brings out individual capabilities to complement each other.

Knowledge Translation



Achieve technological innovation as well as knowledge and technology transfer through strategic partners and industry-university-research collaborations.

UM System of Research and Knowledge Translation



Continuously Improving Academic Quality

Number of UM academic disciplines listed among the Essential Science Indicators Database (ESI) top 1%



- I. Engineering
- 2. Material Science
- 3. Computer Science
- 4. Chemistry
- 5. Pharmacology and Toxicology
- 6. Clinical Medicine
- 7. Psychiatry/Psychology
- 8. Biology and Biochemistry
- 9. Social Sciences, General
- 10. Molecular Biology & Genetics
- 11. Agricultural Sciences
- 12. Economics & Business
- 13. Environment/Ecology
- 14. Geosciences
- 15. Mathematics

(by article citations)

Promoting Research and Innovation in Key Areas

Emerging scientific and innovation fields

OI Precision Medicine

• Research on the prevention and treatments of high-incidence cancers in Macao by integrating 7 major platforms and focusing on 4 major directions; working with hospitals to design precise and effective treatment plans so as to improve the level of GBA.

02 Advanced Materials

• Optoelectronic and electro-optical high-efficiency conversion materials, energy storage and catalytic energy materials, energy-saving, environmental and new functional materials, quantum information and micro-nano technology applications and quantum biomedical technology development.

03 Regional Ocean Research

• Promote the construction of marine environmental monitoring platforms and aim to deploy buoys in Macao waters for real-time monitoring

04 Stem Cell Applications

• Focus on stem cell research and applications plans to advance stem cell therapy applications in Macao and the Cooperation Zone.

Interdisciplinary research areas in arts and sciences

Artificial Intelligence and Robotics

(Strengthen the establishment of academic teams with international influence)

Cognitive and Brain Sciences

(Launch PhD programme and MSc programme; establish joint laboratory with Institutes)

Data Science

(Strengthen cooperation with the GBA)

Humanities and Social Sciences

- Local research
- Research in the areas of Asian economy, financial innovation and smart tourism
- Academic research in the field of humanities and social sciences through subject integration

Advancing Industry-academia-research Development

Industry-academia-research cultivation platform

- Strengthen **parallel incubation services** with ZUMRI;
- Begin to connect with resources such as the Sino-Portuguese bilingual innovation and entrepreneurship competition, recommending more suitable start-up companies to participate in international innovation and entrepreneurship paths;
- Launch new comprehensive entrepreneurship foundation training: the 'From 0 to 1' series of courses; launch pilot project: 'From 1 to 2: Entrepreneurial Solutions';
- 'UltiMater Entrepreneurship Competition'

Industry-academia-research implementation platform

ZUMRI

- Promote the launch of application demonstration projects on the various R&D platforms at Phase I;
- Expedite the construction of the GMP and laboratories and the Animal Centre at **Phase II**:

UM Advanced Research Institute in Hengqin

- Introduce high-quality teams and projects from UM;
- Introduce international and national full-time senior talents and quality research projects.

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Deepening Collaboration with Portuguesespeaking Countries

Establish strategic partnerships with University of Lisbon (Portugal), University of Porto (Portugal) and University of Sao Paulo (Brazil) to promote substantive collaborations.







- Carry out the dual PhD degree programmes with the University of Lisbon (Portugal) and the University of Porto (Portugal);
- Discuss the establishment of joint PhD degree programmes with the University of Sao Paulo (Brazil);
- Discuss the establishment of 'China-Portuguese Speaking Countries Joint Ocean Research Centre' with the Laboratory for Robotics and Engineering Systems (LARSyS) of University of Lisbon and Laoshan Laboratory.



Host the '35th AULP Annual Meeting' in 2026



Reinforcing Collaboration with English-speaking Countries









- Clare Hall at the University of Cambridge Visiting Fellowships Programme (UK).
- Plan to sign a collaboration agreement with Oriel College at the University of Oxford (UK).
- Continue participating in the Harvard-Yenching Institute Visiting Scholars Programme (US).
- Established the dual master's degree programme in English studies with the University of Leeds (UK).
- Established the dual bachelor's degree programme in tourism with Griffith University (Australia) (agreement under signing).
- Hold discussions with the University of Technology Sydney and Macquarie University (Australia) to establish a dual PhD degree programme.

- Plan to visit Australia
 (Melbourne and Brisbane),
 Canada, and the USA (East
 Coast) to strengthen
 collaboration with local leading
 universities in fields such as
 business administration,
 engineering, data science,
 and health sciences.
- Attended the 'NAFSA
 Annual Conference &
 Expo' in May 2025 in the USA,
 to continue deepening
 international partnerships.

Strengthening Collaboration with Neighbouring Countries

Expanding International Student Recruitment towards Southeast Asian Countries

- Continue the student recruitment publicity in Malaysia;
- Strengthen academic cooperation with universities in Vietnam, broaden exchanges with local high schools, and explore the establishment of the 'Principals Recommended Admission Scheme':
- Provide the International Student Scholarship

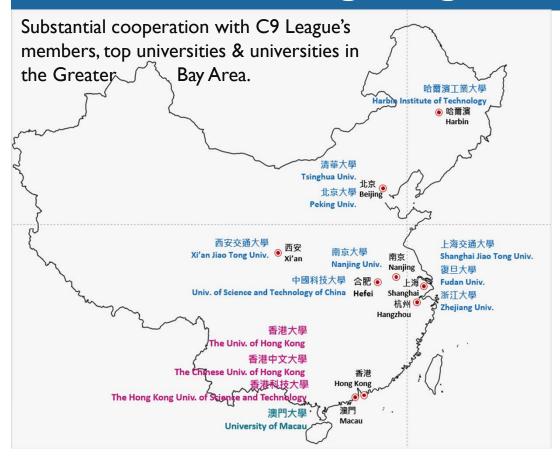


Participating in international education fairs and conferences



- Visit Japan (Osaka and surrounding cities) and participate in the 'Annual General Meeting and Board of Directors Meeting of The Association of East Asian Research Universities (AEARU)' in Japan, to enhance exchanges with research-oriented universities in East Asia";
- Attend the '2026 Asia-Pacific Association for International Education (APAIE) Conference & Exhibition'.

Promoting Exchanges and Collaboration with the Mainland and Hong Kong SAR



Promoting Joint Dual Degree Programmes with Top Mainland Universities

- **Fudan University**
- Zhejiang University
- Xiamen University
- Nanjing University
- South China University of Technology
- East China Normal University
- Sichuan University





























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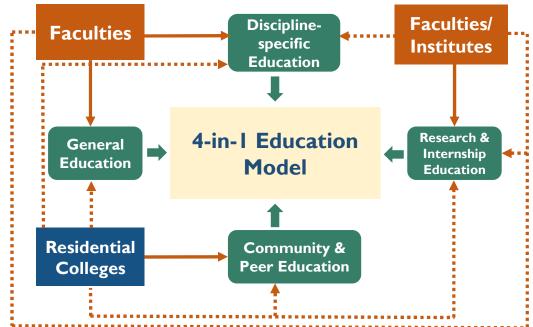


Whole-Person Education

- To help students discover their potentials and abilities through our 4-in-1 model.
- To promote students' whole-person development by utilizing experiential teaching method via the RC's residence experiences and collaborative education of the faculties.











RC Education

RC Education is aimed at nurturing university graduates with seven competencies:

- √ Citizenship
- √ Global competitiveness
- √ Knowledge integration capability
- ✓ Teamwork and collaboration
- ✓ Leadership and service
- ✓ Cultural engagement
- √ Healthy lifestyle







Enhancing the RC Education

- Further strengthening national security
 education to foster students' sense of national identity
- 02 Expanding exchanges and carrying forward cross-regional cooperation among universities

"The RC Global Partnership Programme"

- Offering personalised career planning services and encouraging students to integrate into the development of the country
- Enhancing professional capabilities and pastoral care at the RCs











- Deepening collaboration between the RCs and faculties to support the learning and development of students
- RC Education for 06 Postgraduate Students Pilot Programme

To launch the 'Residential College Education for Postgraduate Students Pilot Programme' at SPC

Continually implementing the educational outcome survey to optimise the collaborative education model











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Strengthening Human Resources Development

Attract leading talents in specific fields

Recruit young scholars with high potential

Continue the implementation of the UMDF Named Professorship and the UMDF Professorial Fellowship

Academic Staff

Administrative Staff

Continuously optimize and improve the personnel system

Strengthen specialized training as well as patriotic & national education

Reform and implement the promotion system

Optimizing Administrative and Financial Management









E-governance

- Facilitate the deployment of the Macao Public Service One Account.
- Optimize and promote the use of "Student Stipend System" and "Digital Expense Claims System".
- Optimize the eProcurement system.

Finance Management

- Optimize budget management and improve budget execution rates.
- Enhance personnel budgeting model.
- Conduct sampling inventory of assets.

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Construction of a UM Campus in the Cooperation Zone in Hengqin

- Construction period is expected to span from 2025 to 2028
- Carrying out key services in compliance with laws and regulations upon entry into the design and construction phase, including cost control, design, project management, general contracting and supervision of the works, as well as surveying and mapping.
- Formulating a ten-year Academic (Programme) plan (2026-2036) and setting up bachelor's, master's, and doctoral degree programmes in the Faculty of Medicine, Faculty of Information Science and Technology, Faculty of Design, and the Faculty of Engineering.



Current Status of Interim Teaching Site







Set up a Science Education Base and Interim Teaching Site in 2024.













- Currently launching graduate courses in 6 majors: Artificial Intelligence, Microelectronics, Finance, Data Science-FinTech, Data Science-Marketing Analysis, Business Analytics.
- There will be around 400 students in 2025/26.
- Established scientific research platforms in the fields of microelectronics, internet-of-things for smart city, artificial intelligence and robotics.

Construction Timeline

ceremony of the Cooperation Zone Campus



- Academic Affairs
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RISE Strategy to Enhance UM's Educational Standards

Relevance

Being rooted in Macao, participated in the construction of the Greater Bay Area, geared towards China and beyond

mpact

Amplifying the university's societal significance and academic impact in the world

Significance

Cementing pursuit of its missions, giving full play to its strengths and features



Establishing a prestigious higher education hub, benchmarking with the world's top universities

Stay relevant, exert influence, increase significance and continue to pursue excellence

Make UM's Working Environment Pleasant and Attractive

UM's People Strategy

- The development and competition of universities boils down to the development and competition of talents
- Staffing is crucial for achieving the strategic goals of the university in the new era

How to make our working environment pleasant for current staff?



Agglomerate



How to make it appealing to prospective staff?

Attract

Appropriate

Commence the Formulation of UM's Next Five-year Development Plan



The Five-Year
Development Plan
of the University of
Macau (2021/222025/26) was
released on 23 Dec
2021. It serves as an
outline and blueprint
for the development
of the university.

The process of formulating UM's Five-Year Development Plan (Academic Year 2026/27-2030/31) commenced in early 2025, marking the beginning of another strategic journey to shape the university's future.



- Coordinate 16 academic units in formulating their fiveyear development plans
- Conduct data collection and research analysis for preparation of the plan
- Collect opinions from internal units/departments/ centres through various channels.

The Position and Role of the University of Macau

立足澳門、共建灣區、融入國家、走向世界

Root in Macao



Participate in the Construction of the Greater Bay Area, Integrate into the Nation



Go Global









Thank you



