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## 4. GRADUATE PROGRAM

### 4.1 History and Development

Master Programs in Information System Management, Master Program in Computer Science, Master Program in Industrial Engineering, Master Program in Accounting, Master Program in Communication Science, and Doctoral Program in Computer Science at Bina Nusantara (BINUS) University have shown their continuous commitment to be the best in delivering quality education that is relevant to industry needs. To achieve the international quality standard, we continuously make our best effort to provide students with an excellent learning process to conduct research practice, up-to-date course materials, and professional resources to deliver knowledge and skill. The program is designed to help graduates gain excellent global career opportunities. Due to increased market requirements and the demand from experts and leaders in business and industry, in September 2008 BINUS UNIVERSITY established the Master Program in Information System Management, and Computer Science and Industrial Engineering was introduced in September 2014. The Accounting Program and Communication Science were opened in September 2017. Doctoral Program in Computer Science was opened in 2015.

**Doctoral Program in Computer Science (DCS)** offers streams in Information Systems and Computer Science. All students in the program receive the degree of Doctor of Computer Science upon the completeness of the academic requirements regardless of their interest area, specialization, or research focus. As a research-oriented degree, DCS Program prepares students to perform research practice exceptionally for careers in academia, industry and government. Students are expected to demonstrate excellence in both defining and executing a substantial research project that forms a novel contribution to the state of the art in computer science. Publications in international journals as well as the Intellectual Property as an output of dissertation results are mandatory to all students as partial fulfillment to finish their studies. With a highly individualized program, the degree provides students with in-depth research within the Binus research roadmap and a rigorous breadth of knowledge across a variety of disciplines.

**Master Program in Information System Management** focuses on the integration of a business approach with a technology perspective. The graduates have competency as a leader in information systems and information technology which can control the function of information systems in any field organization with both future insight and strategy to reach the vision, mission, and target that has been determined, particularly regarding the development of information technology. Moreover, the graduates can act as a consultant of information systems and information technology for the organization in planning information systems strategy, including an evaluation of the effectiveness and efficiency of information systems and information technology applications. It emphasizes on following aspects: Advice, Value/Assesses, Communicate and Innovate. Process management in the development of information technology is the core of the subject given, including Services Oriented Enterprise & Innovation, Advanced Topics in Information Systems, IS Research Methodology, IS Project and Change Management, IS Strategic Planning and Enterprise IT Governance & Compliance, Business Intelligence and Data Analytics, Digital Business and Transformation Management, Digital Entrepreneurship and New Venture Creation, IS Investment, Valuation and Asset Management, Agile Digital Product Innovation, IS Security & Risk Management, and Digital Marketing Analytics. The curriculum is designed by referring to the curriculum recommended by Association for Computing

Machinery (ACM), and Association for Information Systems (AIS), and reviewed by foreign universities with the prestigious reputation of qualified information systems majors.

**Master Program in Computer Science** is a Post-Graduate study program which focuses on two aspects: information technology and business knowledge where it is expected that the graduates will have a commanding view of the process and performance of business corporate. It is expected that the graduates have competency as a leader with vision and future insight, able to design and apply information technology that will improve the work performance of an organization. The objectives of this program are to prepare outstanding visionary ICT leaders for industry and government who are capable of facing the challenge of the future in Information Communication Technology, such as big data and artificial intelligence. In this line, it focuses on providing an excellent advanced education/research and professional services in information technology, recognised globally, that attracts and retains a talented and creative student body and faculty, and creating innovative technologies leading to new products and improved business processes, thus enhancing the quality of life. The graduate competencies of this program encompass the competencies to design an ICT infrastructure blueprint and strategic plan that can be applied by the industry. In line with that, graduates will be able to value the transformation of data into knowledge to attain business competitiveness; Graduates will be able to propose ICT solutions in any field based on computational intelligence by applying state-of-the-art research and development that can increase the value of humanity and environmental aspects. The graduates have the opportunity to fill positions at prestigious firms such as IT Leader, IT Innovator, IT Business Creator, IT Consultant, IT Solution and System Integrator, IT Project Manager, Chief Analytics Officer, Chief Data Officer, Data Analyst, Data Scientist, Data Architect, Data Engineer.

**Master Program in Industrial Engineering** provides its graduates with the necessary skill sets to contribute greatly in the industrial management area in Industry 4.0 era. The program offers a curriculum with attention to building analytical and strategic thinking, leveraged by the technical capabilities in engineering simulation and optimization. Upon graduation, the alumnae may participate in many roles in modern organizations.

**Master Program in Accounting** allows students to develop accounting skills, critical thinking, and IT literacies. The program is appropriate for people interested in improving their accounting skills for their professional career aspirations. It is also suitable for people with limited knowledge of accounting on the assumption that they meet the entry requirements. The graduates of this study program are expected to not only be excellent in the accounting discipline but also have insights into the use of IT for strategic decision-making. The study program offers an industry and IT-oriented curriculum to ensure that the students can develop the strategies of financial reporting, auditing and business process development by using relevant IT in addition to other aspects (such as accounting and auditing standards) in maintaining business continuity. The curriculum offers two concentrations, which are management accountant and assurance and attestation, and it covers advanced knowledge in financial accounting, auditing, management accounting and the IT field. The learning process combines theoretical knowledge with practical insights delivered through guest lectures, case studies and laboratory activities. The program is taught by qualified academics and prominent practitioners to ensure students' academic and professional competencies are enhanced.

**Master Program in Communication Sciences** is designed to have competence as a leader in Communication, especially in the field of a marketing communications strategy that can sell products and maintain a good image and branding products of the company or organisation both internally and externally, have scientific insights and future

strategy. Graduates are equipped with knowledge of leadership and innovation to compete in global competition and also knowledge and experience of international research to provide solutions in the social life of the community.

**Professional Engineer Program** is a program designed to benefit working professionals who seek to increase their qualifications through specialised degree and professional certificate programs. This program provides the availability to increase individual competence and professionalism through continuous professional development to become a Certified Engineer. The curriculum of the professional engineering program is structured based on a professional practice point of view. The scope of engineering disciplines in this program may cover civil engineering and the built environment, architecture, computer engineering, chemical engineering, industrial engineering and food technology.

## Vision

A world-class graduate program that is continuously pursuing excellence in research by combining science, best practices, and leverage of ICT and innovative ICT Leaders in business and the advancement of knowledge and technology.

## Mission

1. Being recognized by industry and peers of similar programs as the source of outstanding researchers, consultants, and business leaders capable of facing the dynamics of Management theories and practices, to improve the quality of life and the competitiveness level of Indonesia.
2. Being recognized by industry and government as a primary source of outstanding visionary ICT leaders and technopreneurs capable of facing the challenge of the future in information systems and information technology. Besides that, to generate innovative technologies leading to new products and improved business processes also to improve and enhance the quality of life.
3. Providing an excellent advanced education/research environment, that attracts potentially qualified researchers and industrial practitioners to take up the doctoral program, and professional services in the information system, information technology enterprise, communication, and accounting, recognized globally, that attracts and retains talented and creative student body and faculty.

## Prospective Career of the Graduates

The graduates of the BINUS Graduate Program could take up one or a combination of the following roles:

1. Professional Researchers: actively conducting research and publishing their papers in SCOPUS-indexed international journals.
2. Industry Consultants: actively conducting high-profile consulting projects with leading companies and producing copyrighted frameworks and or white papers.
3. Business Leaders: actively leading research based on initiatives and actions in their respective companies and becoming an agent of change in the improvement and or innovation.
4. Managers at respected and multinational companies as External auditors, Internal auditors. Management accountant, a Tax consultant.