



UNIVERSITAS
KRISTEN
MARANATHA

Magister Ilmu Komputer

PROPOSAL

CORPORATE-BASED RESEARCH PROGRAM

AUGUST 2021

Fakultas Teknologi Informasi
Universitas Kristen Maranatha
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No.65 Bandung





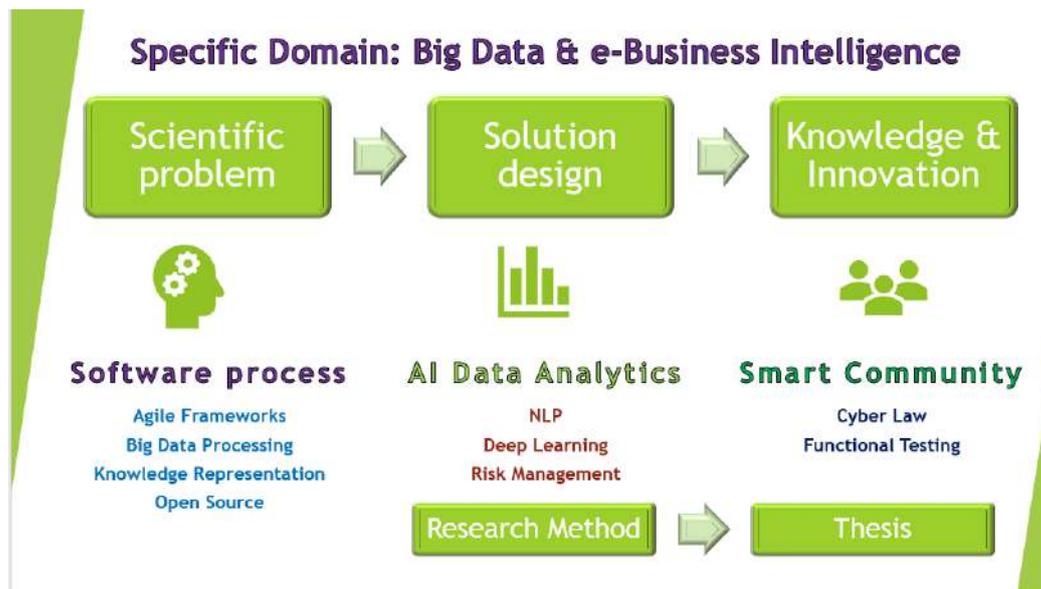
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Master of Computer Science (MCS) is a post-graduate study program under the Faculty of Information Technology Maranatha Christian University with the permission of the Decree of the Minister of Research, Technology and Higher Education of the Republic of Indonesia No. 702/KPT/I/2018 dated on August 28, 2018. MCS has the goal of producing proper learning outcomes for domain-specific software engineering that is in line with information technology trends and in accordance with the needs of industry and society.

Increasing reliance on industry-wide data for decision making has created a high demand for professionals with the knowledge and practical skills needed to interpret, analyze and present data in a concise, efficient and impactful manner. However, this unique combination of knowledge and skills is not a combination obtained with just a bachelor's degree. To achieve the required level of academics expertise, professionals seeking high competencies and careers in data science / analytics will need to deepen their keen interests in our MCS curriculum. The balance between theory, practice and implementation of data science concepts in a real system is an advantage offered in the master's program curriculum of computer science at Maranatha Christian University.

The curriculum is structured in 3 semesters (36 credits). It takes into account the fundamental aspects of computer science, such as: programming, data structures, and software engineering. These fundamental aspects are accompanied by data science hands-on application through cloud computing technology, as well as adequate depth with its integration in big data management, artificial intelligence, visualization, prediction and statistical modeling. Our curriculum also covered important issues in software quality assurance, risk management and cyber law studies.



Our curriculum is directed to a real implementation of data science methods in various knowledge domains, such as: education, retail, transportation, manufacturing, health, etc. It is based on case studies supplied by supporting industry partners. In each semester, students will perform holistic research activities to solve industrial real problems. Some examples of the case studies that have been carried out so far come from our students and alumni, for instance: P.T. Akur Pratama (Yogya Group), P.T. Yamaha Indonesia Motor Manufacturing, P.T. Kereta Api Indonesia (KAI), and a number of research centers from various domestic and foreign higher education institutions.



Vision

To be one of the leading computer science study programs in Indonesia in innovation of domain-specific software engineering in 2029 based on the love and living example of Jesus Christ.

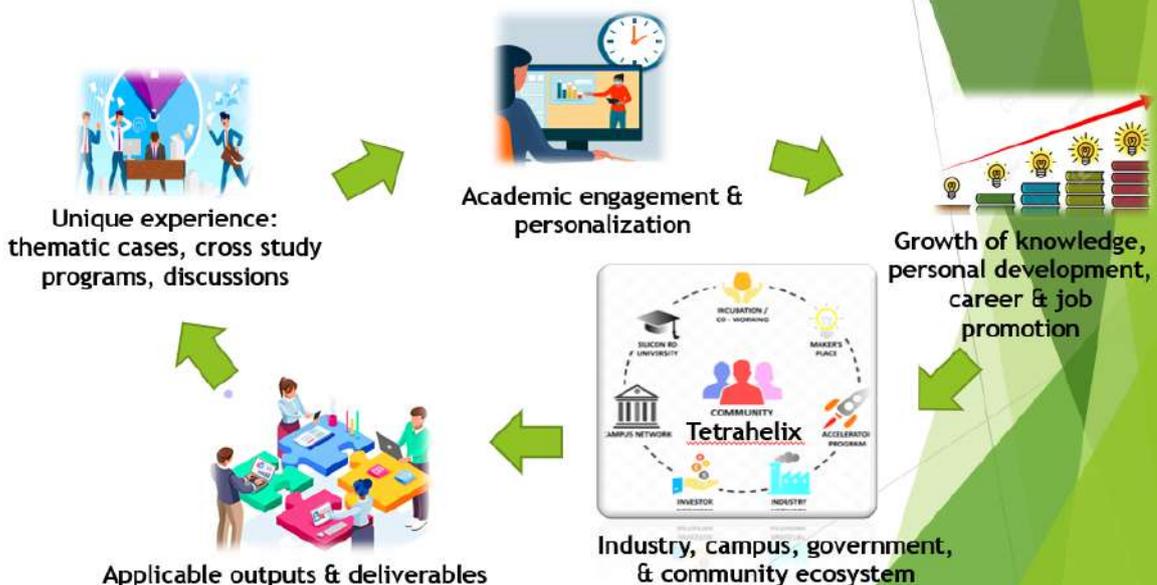
MISSION

- Organizing education activities with innovative content in domain-specific software engineering by taking into account the progressive development of information technology.
- Provide an excellent and reliable community of academicians, in technical as well as in social aspect, and meet the needs of industry and the wider community.
- Organizing community service programs that have a direct impact and fulfill the Christian living values promoted by Maranatha Christian University.

In the new academic year of 2021/22 (begin in September 2021), we offer a special program for various industries or corporations to link-and-match their research and development activities into our MCS degree program. Specific research topic (project) which comes from corporate needs will be transferred into achievable learning outcomes in our curriculum. In this manner, each corporation has flexible study materials, which are in line with the problem introduced in each project. There will be special supervision and lecture sessions from various scientific views.

In this program each corporation has a unique experience with a special research theme, multi-subjects perspective and lots of academic interactions. There will be more engagement, personalization and personal development for the students which are very important for job and career promotion. This approach will also increase the education ecosystem which includes important actors: the students, campus, industry, government, and wider community.

Benefits (for students as well for lecturers)





REGULAR CLASSROOM-BASED APPROACH VS RESEARCH-BASED APPROACH

Aspect	Classroom-based (basic)	Research-based
Time	16 weeks @ 3 hours/subject	Based on supervision
Materials	Learning resources	Discussion on specific issues cross subjects
Assessment	Assignments, mid- & end-exam	Holistic product assessment
Output	Publication draft	System manual, copyright, book, etc.
Participants	Individual (general supervision)	Corporate participants (private supervision)
Lecturers	Scheduled in class	As supervisors: multi-perspective approach
Project Period	Semester-based	Multi-semester (continuous)

Compare



We offer **special** scholarships schemas for corporates to join this program as follows:

Number of Students	Scholarship / Student / Semester	T. Fee / Student / Semester (normal: IDR 16,500K)	Corp. T. Fee / Semester
2	2,500K	14,000K	28,000K
3	3,500K	13,000K	39,000K
4	4,500K	12,000K	48,000K
5	5,500K	11,000K	55,000K



We are open for the next discussion and further explanation about our collaboration offering to your company.

We sincerely thank you for your willingness to read our proposal.

Best Regards,



PROGRAM MAGISTER
ILMU KOMPUTER

Dr. Hapnes Toba, M.Sc., IPM

Head of Computer Science Master's Program



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THANK YOU FOR MORE INFORMATION:

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