



UNIVERSITAS
GADJAH MADA



Double Degree Master Program MKA UGM

Departement of Computer Science and Electronics
Faculty of Mathematics and Natural Sciences
Universitas Gadjah Mada



+62812112094141



mka.mipa@ugm.ac.id



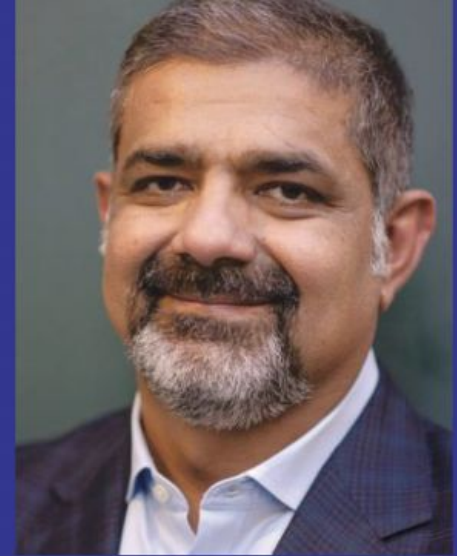
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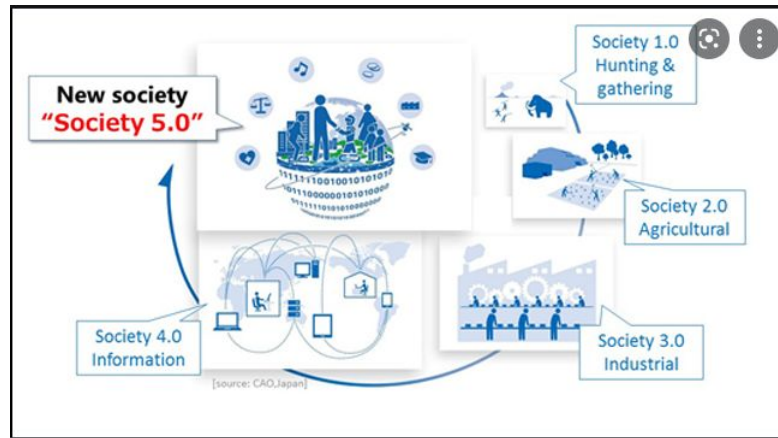
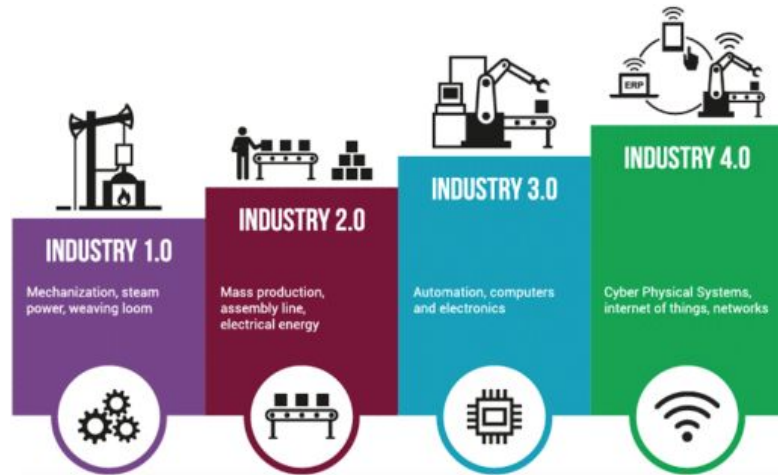
AI Won't Replace Humans — But Humans With AI Will Replace Humans Without AI



Karim Lakhani, Professor at Harvard Business School who specializes in workplace technology and particularly AI

Harvard Business Review, 4 Agustus 2023

Sekilas tentang MKA



sumber gambar : https://www8.cao.go.jp/cstp/english/society5_0/index.html

- MKA dibuka pada tahun 2022
- Industri 4.0 dan Masyarakat 5.0
- Kebutuhan profesional dalam bidang kecerdasan artifisial meningkat signifikan
- Visi Keilmuan => **Penguatan konsep fundamental di bidang Kecerdasan Artifisial yang diterapkan untuk menyelesaikan masalah nyata dalam berbagai bidang, khususnya pada sistem cerdas, penglihatan komputer, dan pemrosesan bahasa alami.**

Prospek Profesi Lulusan

Mengisi berbagai okupasi bidang Kecerdasan Artifisial, yang tidak terbatas pada :

- Peneliti dan Pengajar bidang Kecerdasan Artifisial
- *Data Scientist and Analyst*
- *AI Specialist*
- *Machine Learning Engineer*
- *NLP Engineer*
- *AI Entrepreneur*

Struktur Kurikulum

- Minimal menyelesaikan **36 sks** (**18 sks** matakuliah wajib)
- Dapat diselesaikan secepatnya dalam 3 semester
- Lulusan MKA akan mendapatkan gelar **M.CS(AI)**, *Master of Computer Science in Artificial Intelligence*



Program/Kelas yang tersedia

- **Kelas Reguler** : Kuliah dilaksanakan pada hari Senin s/d Jumat
- **Kelas Minat Entrepreneur bidang Kecerdasan Artifisial (AI-Preneur)** : Kuliah dilaksanakan pada hari Sabtu pukul 07.30 – 18.00
- **Berbasis Penelitian (*by research*)**
- **Double Degree Program**



Struktur Kurikulum : Kelas Reguler

Sem	Matakuliah	SKS
I	Metodologi Riset Kecerdasan Artifisial (<i>Research Methodology in Artificial Intelligence</i>)	3
	Prinsip Kecerdasan Artifisial (<i>Principles of AI</i>)	3
	Pembelajaran Mesin dan Aplikasinya (<i>Machine Learning and Its Applications</i>)	3
	Matakuliah Pilihan 1 (<i>Elective Course 1</i>)	3
	Total Semester 1	12
II	Proposal tesis (<i>Thesis Proposal</i>)	2
	Matakuliah Pilihan 2 (<i>Elective Course 2</i>)	3
	Matakuliah Pilihan 3 (<i>Elective Course 3</i>)	3
	Matakuliah Pilihan 4 (<i>Elective Course 4</i>)	3
	Total Semester 2	11
III	Matakuliah Pilihan 5 (<i>Elective Course 5</i>)	3
	Matakuliah Pilihan 6 (<i>Elective Course 6</i>)	3
	Seminar Tesis	1
	Total Semester 3	7
IV	Tesis (<i>Thesis</i>)	6
	Total Semester 4	6
Total SKS		36

Struktur Kurikulum (Matakuliah Pilihan)



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- Logika Fuzzy Lanjut (*Advanced Fuzzy Logic*) 3 sks
- Pengenalan dan Analisis Pola (*Pattern Recognition and Analysis*) 3 sks
- Sains dan Analisis Data (*Data Science and Analytics*) 3 sks
- Sistem Terinspirasi Mahluk Hidup (*Bioinspired Systems*) 3 sks
- Kecerdasan Komputasional (*Computational Intelligence*) 3 sks
- Agen Cerdas Enterprise (*Enterprise Intelligent Agents*) 3 sks
- Computer Vision Lanjut (*Advanced Computer Vision*) 3 sks
- Sistem Pakar Lanjut (*Advanced Expert Systems*) 3 sks
- Penalaran Komputer (*Computer Reasoning*) 3 sks
- Sistem Pendukung Keputusan Cerdas (*Intelligent Decision Support Systems*) 3 sks
- Pemrosesan Bahasa Alami Lanjut (*Advanced Natural Language Processing*) 3 sks
- Bioinformatika Cerdas (*Intelligent Bioinformatics*) 3 sks
- Inovasi dan Entrepreneur Kecerdasan Artifisial (*AI Innovation & Entrepreneurship*) 3 sks
- Kecerdasan Artifisial pada Bisnis (*AI in Business*) 3 sks



Struktur Kurikulum : Kelas AI-Preneur

Sem	Matakuliah	SKS
I	Metodologi Riset Kecerdasan Artifisial (<i>Research Methodology in Artificial Intelligence</i>)	3
	Prinsip Kecerdasan Artifisial (<i>Principles of AI</i>)	3
	Pembelajaran Mesin dan Aplikasinya (<i>Machine Learning and Applications</i>)	3
	Sistem Pendukung Keputusan Cerdas (<i>Intelligent Decision Support Systems</i>)	3
	Total Semester 1	12
II	Computer Vision Lanjut (<i>Advanced Computer Vision</i>)	2
	Pemrosesan Bahasa Alami Lanjut (<i>Advanced Natural Language Processing</i>)	3
	Sains dan Analisis Data (<i>Data Science and Analytics</i>)	3
	Kecerdasan Artifisial pada Bisnis (<i>AI in Business</i>)	3
	Proposal Tesis (<i>Thesis Proposal</i>)	3
	Total Semester 2	14
III	Inovasi dan Entrepreneur Kecerdasan Artifisial (<i>AI Innovation & Entrepreneurship</i>)	3
	Seminar Tesis (<i>Thesis Seminar</i>)	1
	Tesis (<i>Thesis</i>)	6
	Total Semester 3	10
Total SKS		36

Struktur Kurikulum : Berbasis Penelitian



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Sem	Matakuliah	SKS
I	Metodologi Riset Kecerdasan Artifisial (<i>Research Methodology in Artificial Intelligence</i>)	3
	Prinsip Kecerdasan Artifisial (<i>Principles of AI</i>)	3
	Pembelajaran Mesin dan Aplikasinya (<i>Machine Learning and Applications</i>)	3
	Proposal Tesis	2
	Total Semester 1	11
II	Seminar Hasil Riset Tahap I	2
	Seminar Hasil Riset Tahap II	3
	Naskah Publikasi	5
	Total Semester 2	10
III	Publikasi Internasional Bereputasi	5
	Laporan Tesis	3
	Seminar Tesis	1
	Tesis	6
	Total Semester 3	16
	Total SKS	36

Publikasi Internasional Bereputasi (1 paper pada jurnal international bereputasi atau 2 paper pada international conference bereputasi)

Silabus Matakuliah



Beranda > Program Magister Kecerdasan Artifisial > [Kurikulum Magister Kecerdasan Artifisial](#)

Kurikulum Magister Kecerdasan Artifisial

Kurikulum program reguler Program Studi Magister Kecerdasan Artifisial terdiri dari 42 SKS yang memuat 18 SKS mata kuliah wajib, termasuk 2 SKS Proposal Tesis, 1 SKS Seminar Tesis, dan 6 SKS Tesis. Program Studi Magister Kecerdasan Artifisial dapat diselesaikan dalam 3 hingga 4 semester. Lulusan akan mendapatkan gelar M.CS(AI), Master of Computer Science in Artificial Intelligence.

STRUKTUR KURIKULUM REGULAR

MATA KULIAH WAJIB REGULAR

STRUKTUR KURIKULUM BY RESEARCH

MATA KULIAH WAJIB BY RESEARCH

MATA KULIAH PILIHAN

MATA KULIAH MINAT AI-PRENEUR

PERATURAN PERALIHAN

KESETARAAN MATA KULIAH

SILABUS

DASAR KURIKULUM

Last Updated: 19 Agustus 2024

[Silabus Magister Kecerdasan Artifisial](#)

<https://dcse.fmipa.ugm.ac.id/mka/>

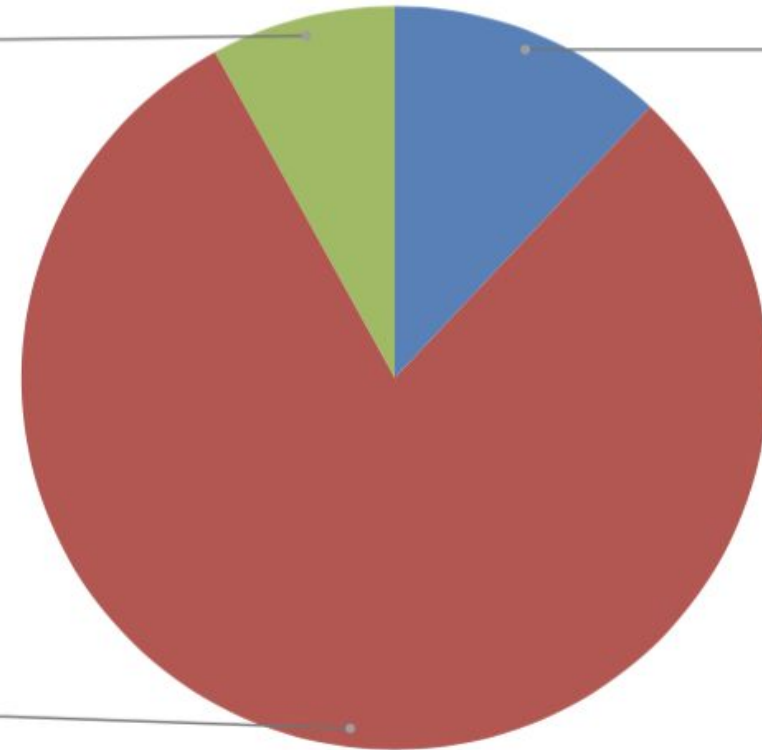
Tracer Study

- Jumlah alumni hingga saat ini : **51**
- Rata – rata masa tunggu : **1,36 bulan**

Tracer Study

Wirausaha
8.0%

Internasional
12.0%



Nasional
80.0%

Double Degree Program

Beasiswa Double Degree

- Tuition fee => full waived
- Living Cost/Biaya Hidup di Universitas Partners
 - **Kitasato University** : Jasso Scholarship
 - **NTUST** : NTUST Scholarship

Timeline

JADWAL PENERIMAAN MAHASISWA BARU PROGRAM PASCASARJANA SEMESTER GASAL TA 2026/2027*

No	Kegiatan	Gelombang 1	Gelombang 2	Gelombang 3	Gelombang 4
1	Pendaftaran	3-24 Februari 2026	17 Mar-7 April 2026	28 April-18 Mei 2026	9-30 Juni 2026
2	Pembayaran biaya pendaftaran	Sesuai jadwal yang tercantum pada kode pembayaran masing-masing			
3	Tes substantif (apabila ada)	2-4 Maret 2026	13-15 April 2026	22,25-26 Mei 2026	6-8 Juli 2026
4	Pengumuman hasil seleksi	11 Maret 2026	22 April 2026	3 Juni 2026	13 Juli 2026
5	Registrasi <i>online</i> bagi yang diterima	12-31 Maret 2026	23-30 April 2026	4-10 Juni 2026	14-21 Juli 2026
6	Hasil verifikasi dokumen registrasi dan Penetapan UKT	1 April 2026	1 Mei 2026	17 Juni 2026	22 Juli 2026
7	Periode pembayaran UKT	1-21 April 2026	1-29 Mei 2026	17 Juni-7 Juli 2026	22-31 Juli 2026
8	Awal kegiatan akademik	18 Agustus 2026			

*) = Jadwal dimungkinkan mengalami perubahan

1. Mahasiswa S1 UGM yudisium maks : **Mei 2026**
2. Mahasiswa yang sudah lulus

Outline

- Overview Research Internship 2025
- Schema of Double Degree Master Program 2026
- Curriculum Structure
- Funding and scholarship
- Timeline

Kitasato University

🗺️ 🗣️ 10 languages ▾

Article Talk

Read Edit View history Tools ▾

From Wikipedia, the free encyclopedia

Coordinates: 35°38′33.21″N 139°43′32.27″E﻿ / ﻿35.64253°N 139.72531°E﻿ / 35.64253; 139.72531﻿ ()

Kitasato University (北里大学, *Kitasato Daigaku*) is a private medical university headquartered in Shirokane, Minato, Tokyo, Japan. The head of the university is on the Shirokane campus, neighboring the original Kitasato Institute, the first private medical research facility in Japan which was the starting point for the existing university.

History [[edit](#)]

The school was named after Kitasato Shibasaburō,^[2] who was nominated for the Nobel Prize in Physiology or Medicine in 1901.^[3]

The 2015 Nobel Prize in Physiology or Medicine was awarded to Satoshi Ōmura, a professor at Kitasato University.^[4]

In 2018, it was accused of discriminating against applicants for their age and gender.^[5]

Kitasato University

北里大学



Sagamihara Campus

Type	Private university
Established	1962
President	Toshiaki Sunazuka, Ph.D.
Academic staff	1,725 (May 2019) ^[1]
Administrative	4,170 (May 2019) ^[1]

Kitasato University

[Article](#) [Talk](#)

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Kitasato University (北里大学, *Kitasato Daigaku*) is a private medical [univers](#) headquartered in [Shirokane](#), [Minato](#), [Tokyo](#), Japan. The head of the university is Shirokane campus, neighboring the original Kitasato Institute, the first private me research facility in Japan which was the starting point for the existing university.

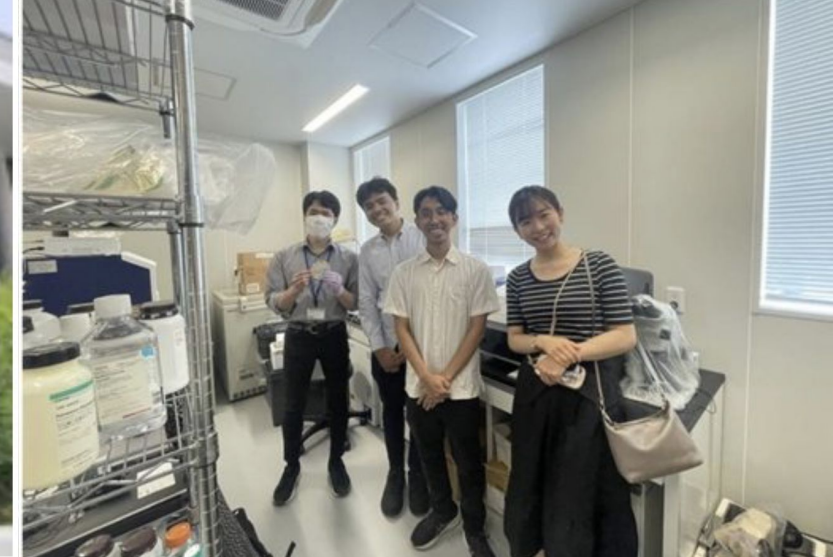
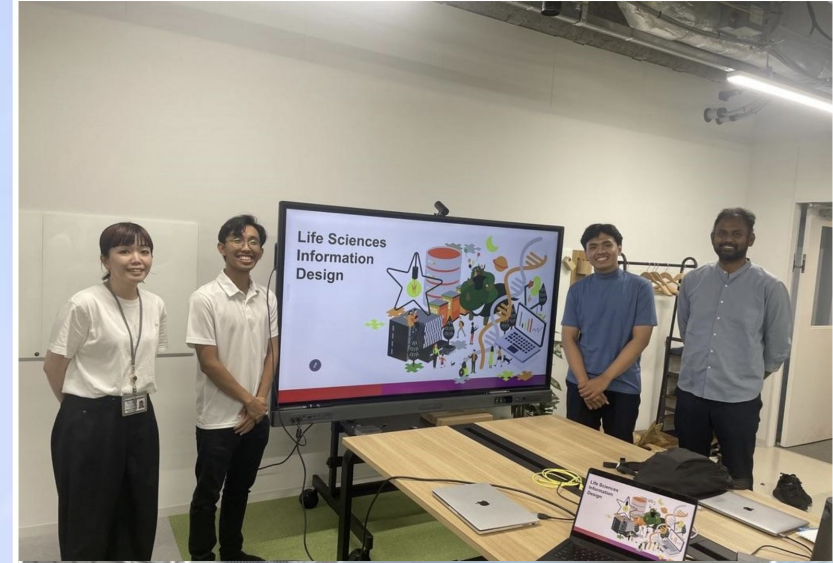
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Research Internship at Dept. of Biomedical Data Science, School of Frontier Engineering, Kitasato Univ 2025

Two (2) students of IUP Computer Science join this program

Schema of Double Degree Master Program

- UGM □ Kitasato Univ(KU)
- Kitasato Univ (KU) □ UGM

Semester	UGM Students	KU Students
1 (Home Univ)	UGM	KU
2 (Partner Univ)	KU	UGM
3 (Partner Univ)	KU	UGM
4 (Home Univ)	UGM	KU

- Number of Students for MKA : 1 students/year
- First intake for UGM : August 2026
- First intake for KU : April 2027

Timeline

Timeline for UGM Students

Semester	Location	Start
1 (Home Univ)	UGM	August 2026
2 (Partner Univ)	KU	April 2027
3 (Partner Univ)	KU	September 2027
4 (Home Univ)	UGM	February 2028
Graduation	UGM	July 2028

Timeline for KU Students

Semester	Location	Start
1 (Home Univ)	KU	April 2027
2 (Partner Univ)	UGM	August 2027
3 (Partner Univ)	UGM	February 2027
4 (Home Univ)	KU	October 2028
Graduation	KU	March 2029

Funding and Scholarship

- The tuition fee is waived in both universities
 - Students can apply any scholarship for living cost in partner univ
1. UGM students in KU : Jasso (~ 70.000 – 80.000 JPY), ...
 2. KU students in UGM : DCSE GTS (Global Talent Scholarship), ...



#DCSExcellent

DCSE Global Talent Scholarship 2026

Department of Computer Science and Electronics,
Faculty of Mathematics and Natural Sciences
Universitas Gadjah Mada

About the Scholarship

DCSE Global Talent Scholarship is a scholarship offered by the Department of Computer Science and Electronics (DCSE) for overseas students to take a Master/ Doctoral degree by research to demonstrate the need of financial assistance.

Available Programs	Requirements
• Master of Computer Science	• International applicants (non-Indonesian)
• Master of Artificial Intelligence	• Relevant academic background
• Master of Electronics and Instrumentation	• Strong academic record & English proficiency
• Doctoral Program in Computer Science	• Not receiving another scholarship

Curriculum Structure (UGM Students)



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Semester	Number of Credits UGM	Number of Credits KU	Description	Location
1	15	12	Courses at UGM	UGM
2	6 +6	4+2+6	<ol style="list-style-type: none"> 1. Research Ethics (1 cr) 2. Intellectual property theory (1 cr) 3. Special Lecture for Biomedical Data Science (2 cr) 4. Practice for Advanced Course of Biomedical Data Science (2 cr) 5. Graduate Research on Biomedical Data Science I (6 cr) 	Kitasato University
3	3	6	<ol style="list-style-type: none"> 1. Graduate Research on Biomedical Data Science I (6 cr) 2. Elective courses of UGM modules (3 cr) 	Kitasato University x UGM (online)
4	6 (Thesis)	6	Graduate Research on Biomedical Data Science II(6 cr)	UGM
Total credits	36	30		

Note for UGM : Graduate Research on Biomedical Data Science I (6cr) from KU is recognized as : thesis proposal (2cr) + thesis seminar (1 cr) + research methodology (3cr)

Curriculum Structure (KU Students)



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Semester	Number of Credits UGM	Number of Credits KU	Description	Location
1	12+6	4 cr compulsory courses + 6 cr elective courses+ 2 SL of BDS+ 6 GRBDS	<ol style="list-style-type: none"> 1. Research Ethics (1 cr) 2. Practice for Advanced Course of Biomedical Data Science (2 cr) 3. Intellectual property theory (1 cr) 4. Elective courses of KU modules (6 cr) 5. Special Lecture for Biomedical Data Science (2) 6. Graduate Research on Biomedical Data Science I(6 cr) 	Kitasato University
2	6	0	<ol style="list-style-type: none"> 1. Compulsory Courses UGM (2 courses) 	UGM
3	6+6	6	<ol style="list-style-type: none"> 1. Compulsory courses UGM (1 courses) 2. Elective courses UGM (1 courses) 3. Elective courses of KU modules (6 cr) 	UGM x KU (online)
4	6	6	Graduate Research on Biomedical Data Science II (6 cr)	Kitasato University
Total credits	42	30		

Note for UGM : Graduate Research on Biomedical Data Science I (6cr) from KU is recognized as : thesis proposal (2cr) + thesis seminar (1 cr) + research methodology (3cr) and GRBDS II (6cr) from KU is recognized as : thesis

Timeline

Penjaringan internal
google form akan
di-share di awal bulan
Mei

Pendaftaran melalui
umugm Gelombang
4, deadline pada
tanggal **30 juni 2026**
(20 Juni 2026)