



UNIVERSITAS GADJAH MADA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM



Faculty Profile

2023

mipa.ugm.ac.id
@fmipaugm
+6281388340007

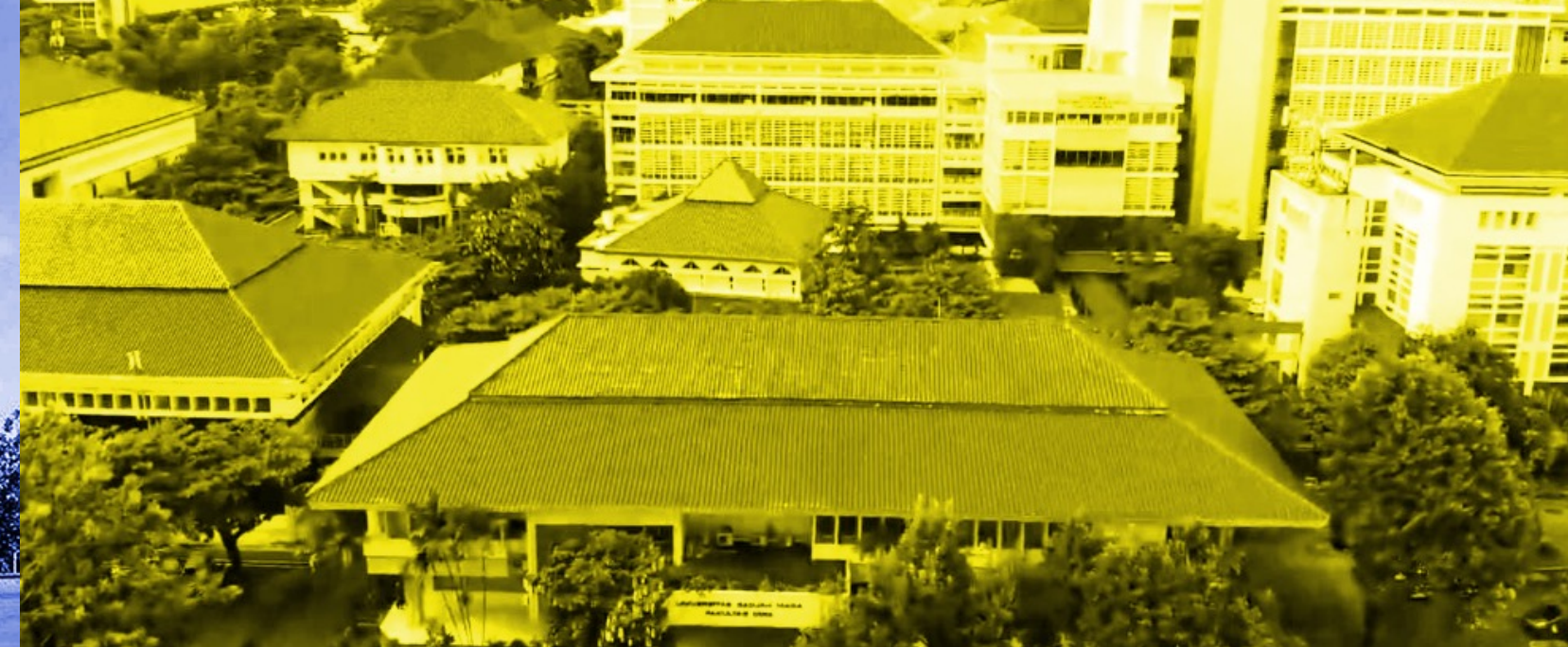
#1

INDONESIAN UNIVERSITY IN ACADEMIC REPUTATION

#263



About Us.



UGM located in Sleman, Special Region of Yogyakarta, Indonesia. (± 650 km from Jakarta)

Name of the university:

Universitas Gadjah Mada

Name of the faculty:

Faculty of Mathematics and Natural Sciences (FMNS)

Name of the dean:

Prof. Dr.Eng. Kuwat Triyana, M.Si.

Email address: mipa@ugm.ac.id

Telp/Fax: +62 274 513339

Faculty website: mipa.ugm.ac.id

Faculty Social Media: @fmipaugm

Faculty of Mathematics and Natural Sciences (FMNS) offers:

2908

Undergraduate students

433

Master students

231

Doctoral students

4

Clusters of Post Doctoral Study Programs

201

Lectures by The Department

141

Supporting Staff



College Students Achievements:

30 International Level

152 National Level

Across Industries



Santosa

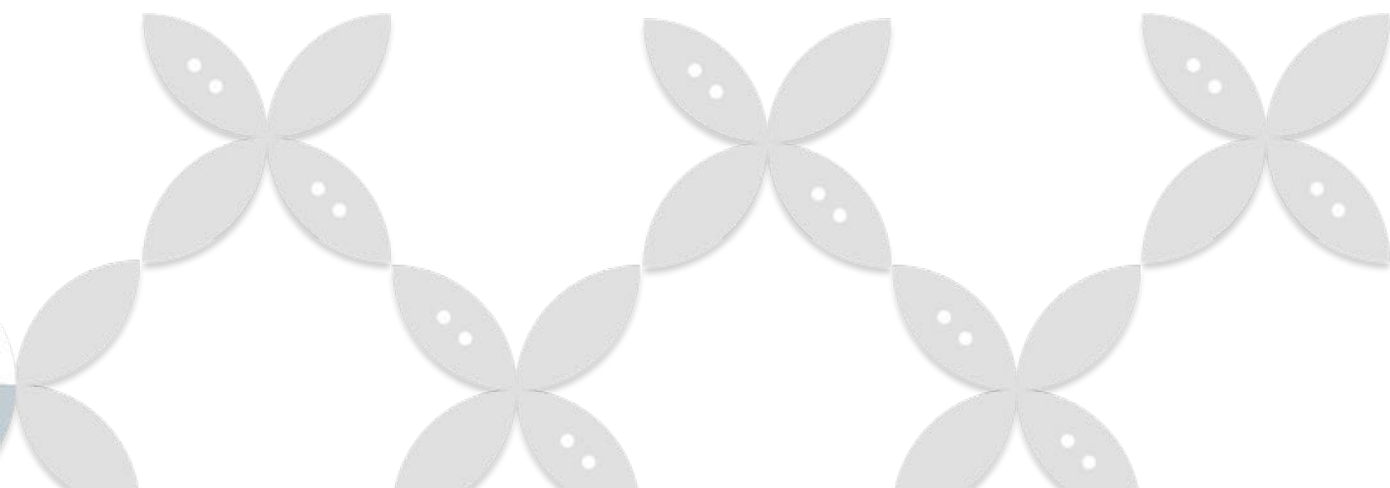
Presiden Direktur
PT. Astra Agro Lestari Tbk.



Satrijo Tanudjojo
CEO Tanoto Foundation



Direksi
PT. Perkebunan Nusantara XI.



List of Academic Programs

Undergraduate

Chemistry

Computer Science

Electronics and
Instrumentation

Mathematics

Statistics

Actuarial Science

Physics

Geophysics

Master

Chemistry

Computer Science

Artificial Intelligence

Electronics and
Instrumentation

Mathematics

Physics

Doctor

Chemistry

Computer Science

Mathematics

Physics

International Programs

IUP Chemistry

IUP Computer
Science

IUP Electronics and
Instrumentation

Notes:

 Accredited by RSC - Royal Society of Chemistry

 Accredited by ASIIN - Global Leader in Quality Assurance in Higher Education

 New Program



Our Focus

#1 Employability

#2 Reputation

#3 Contribution to nation

#4 Healthy and happiness



Supporting Facilities



Career Center

Industrial project involving students



Taiwan center

Center for cooperation with Taiwan Universities



Integrated workshop

Research and industrial prototypes and products



Global Training & Recognized Certification

Global training and certification by Wadhvani Foundation



Start-up mentoring

Global mentoring for creating star-up companies



Health Promoting University

an approach to creating a learning environment, an organizational culture that promotes sustainable health and well-being for all campus members, and encourages campus members to optimize their potential.

Industrial Research

	Swakelola "Survei Passive Seismik Area Piraiba & Tanjung Barat" PHI		2022
	Pengadaan Jasa Survey dan Processing Passive Seismik Blok Randugunting	PHE RANDUGUNTING	2022
	Rancang Bangun Sistem Monitoring Gempabumi	BMKG	2022
	Clean Technology SP-ERT untuk Pemantauan Injeksi Air	PHE UPSTREAM INNOVATION	2022
	Geophysical Cloud Based Computational Tool – Passive Seismic Lanjutan	PHE UPSTREAM INNOVATION	2022
	Pilot Metode Electrical Enhanced Oild Recovery (EOR) Untuk Meningkatkan Produksi Minyak di Lapangan Klaono	PHE UPSTREAM INNOVATION	2022

Industrial Research



Controlled Source Electromagnetic Untuk Mendeteksi Reservoir Hidrokarbon

PHE UPSTREAM INNOVATION

2023



Pengembangan Software Pertagamant versi 2.0 (Modul Potential Method dan 3D Inverse Modeling)

PHE UPSTREAM INNOVATION

2023



LFPS area Pangkah Gresik

PGN Saka

2023



Studi Digital Transformation Dengan Aplikasi Machine Learning Untuk Fault Analysis Dan Low Resistivity Low Contrast Reservoir

PT Pertamina EP Zona 4

2023



Seismometer Portabel untuk Mitigasi Bencana Geologi, Geoteknik, dan Eksplorasi

2023

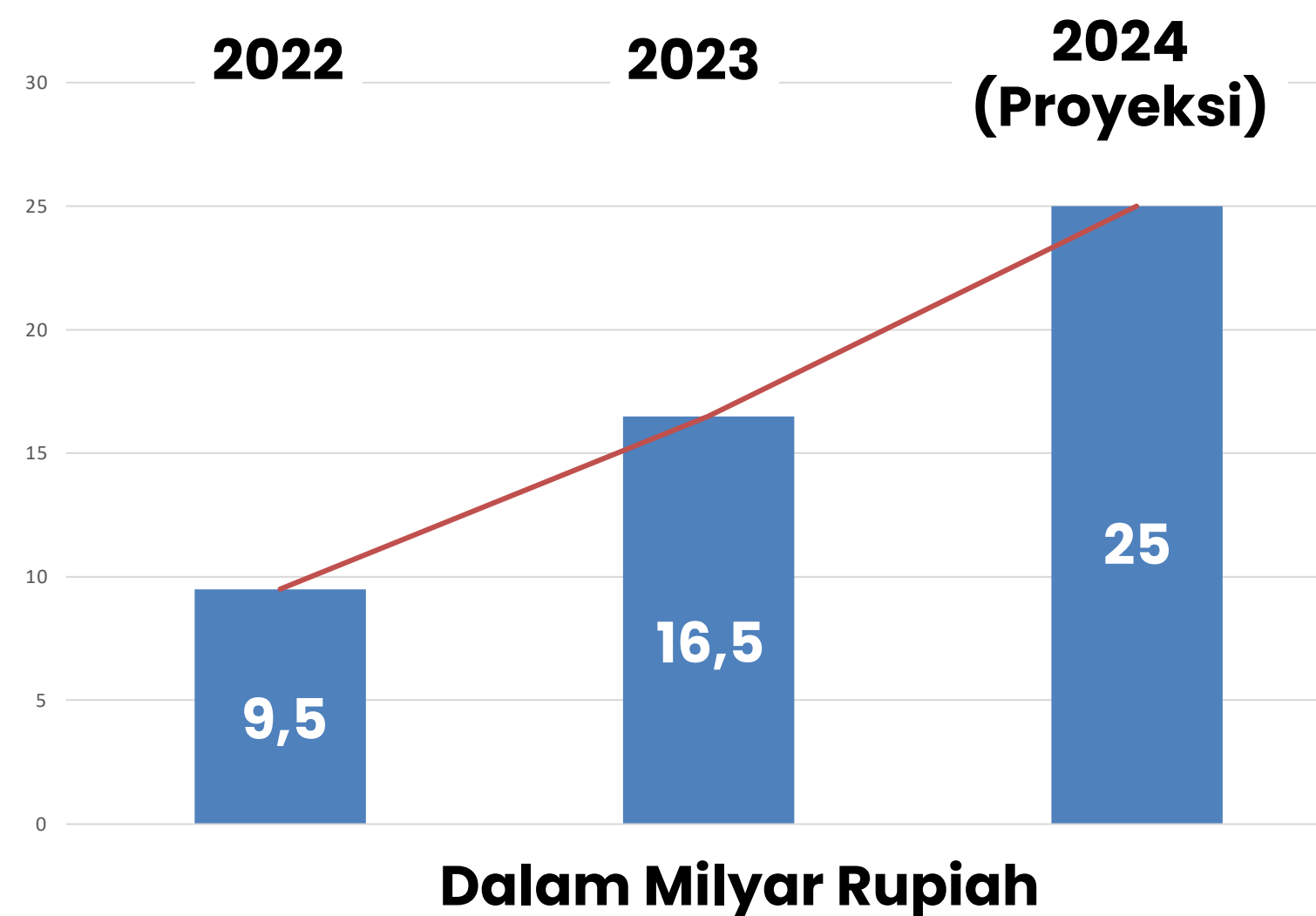


Research investigation of polymer nanofibers integrated onto silicon MEMS chips using electrospinning method

INFINEON TECHNOLOGY GERMANY

2023

Research Products



Alumni Career Center FMIPA UGM



- Rintasari Rahmaningtyas
- Geophysical Data Processor
- ESG Solutions, Canada
- Alumni FMIPA (2017–2021)

- "Your network is your net worth."
- –Porter Gale–
- "Hal tersebut saya dapatkan di FMIPA UGM. Tidak hanya ilmu akademis, namun juga relasi yang saya bangun dengan dosen, karyawan, dan teman-teman telah membentuk diri saya menjadi seperti sekarang."

Industrial Research



Student Internship Program

Research & Innovations Centers



- Center of Innovations for Sensor and Instrumentation
- Center of Innovations Based on Artificial Intelligence
- Center of Innovation Based in Metaverse
- Center of Advanced Functional Materials
- Center of Cryptography and Cyber Security
- Center of Data Analytics
- Center of Control, Mathematical Modelling, and Optimization

Center of Innovations for Sensor and Instrumentation

[Beranda](#) ▶ [Alat Uji](#) ▶ [Kimia Fisik Lainnya](#) ▶ GAMADU SEISMOMETER



HIKARI GAMADU SEISMOMETER

4821900003-AL2-011237084

PT Hikari Solusindo Sukses

Katalog Nasional

Alat Laboratorium

Rp 300.000.000,00

Stok Produk : 15

Center of Innovations Based on Artificial Intelligence



AI for Stunting Solution: Tanoto Foundation & DTO MH RI



Center of Innovation Based in Metaverse

FMIPA UGM Bakal Buat Candi Borobudur Versi Metaverse

Reporter Editor
Antara Devy Ernis

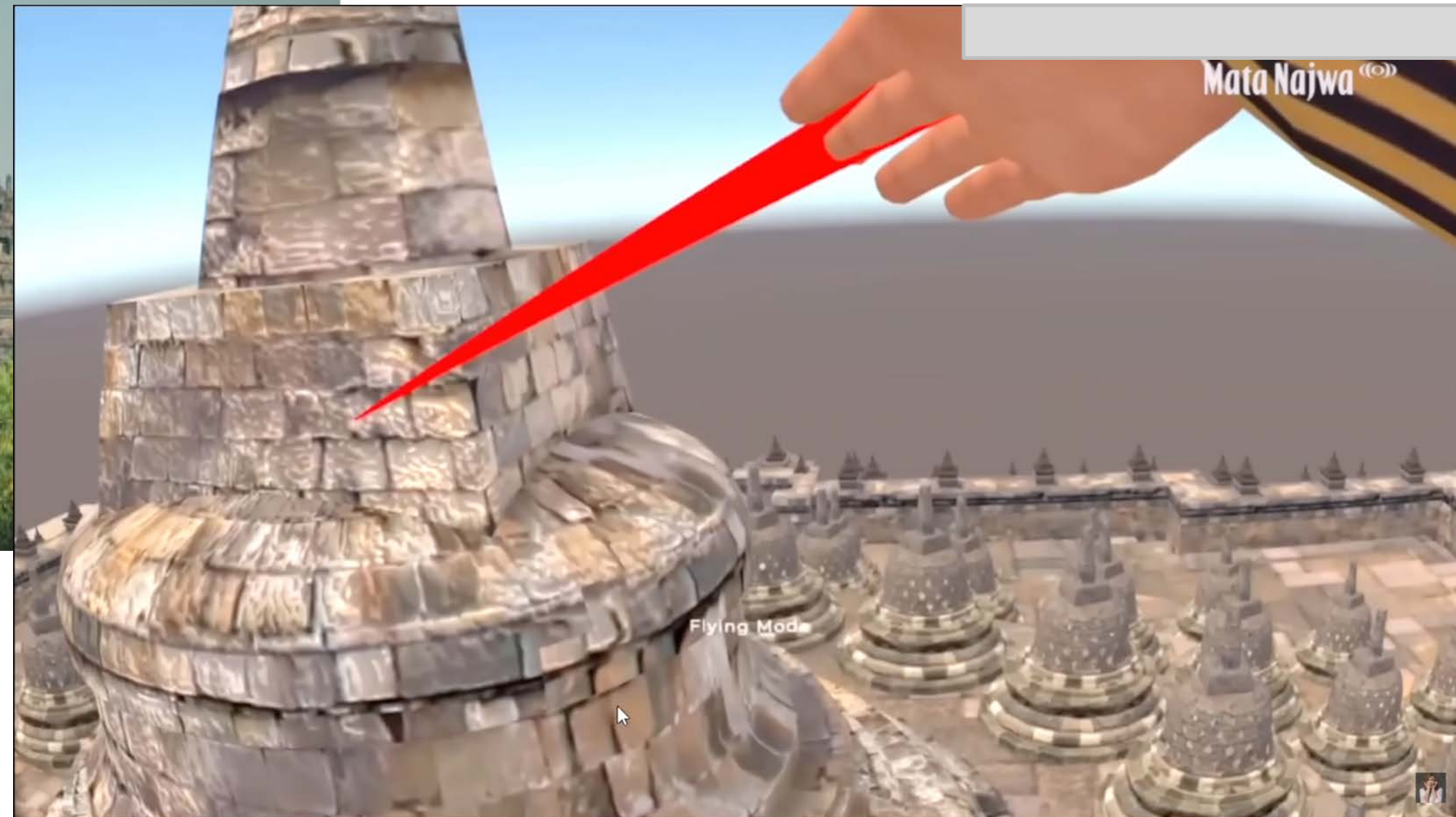
Rabu, 6 Juli 2022 11:18 WIB



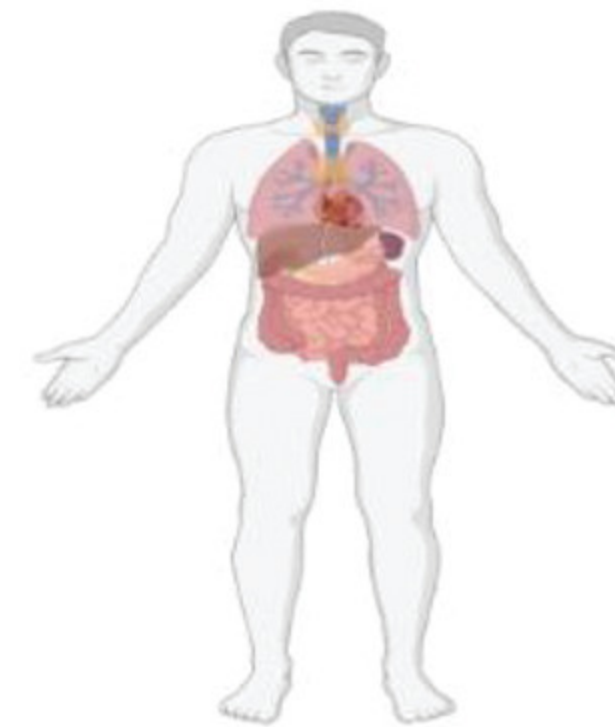
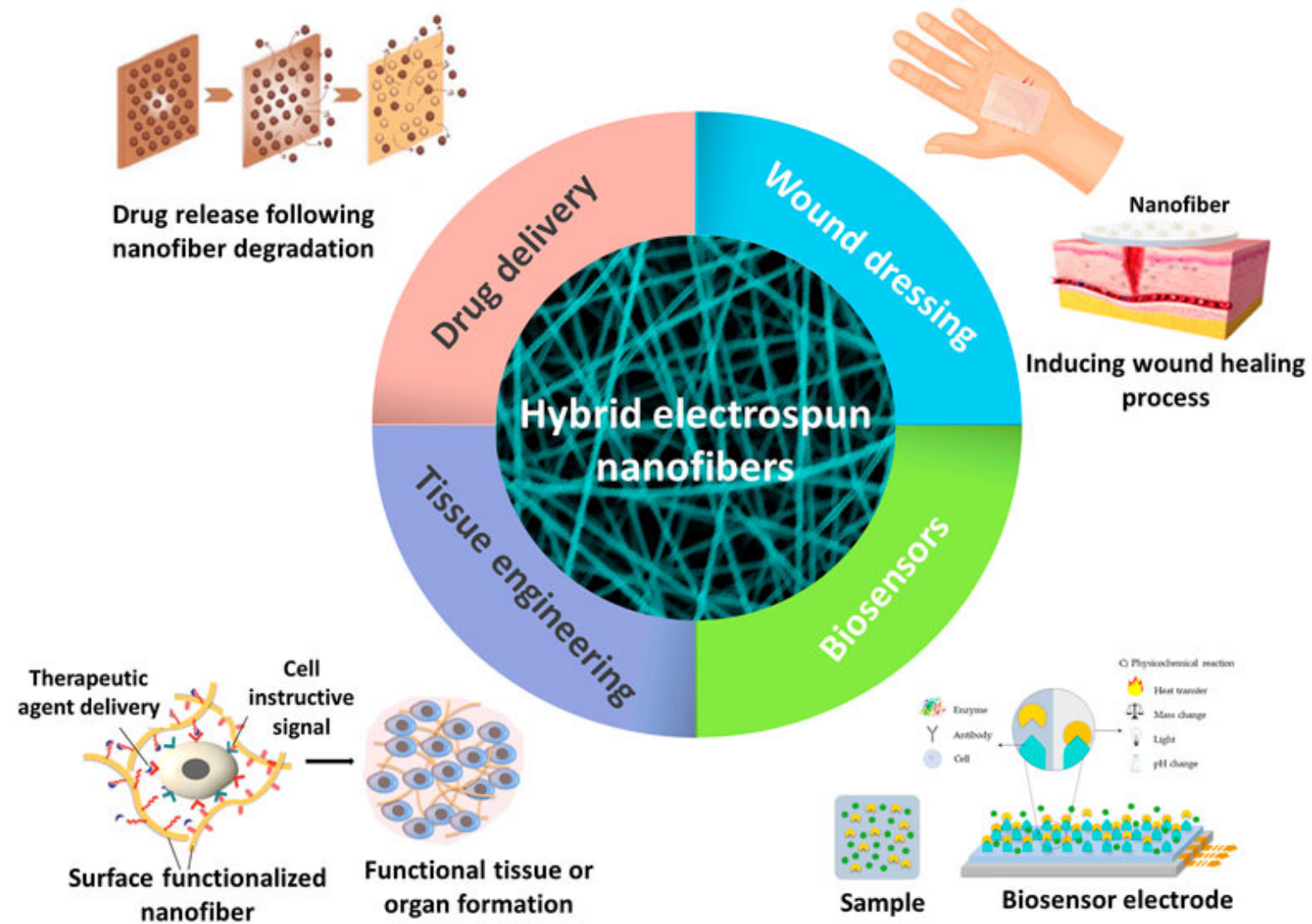
Bagikan



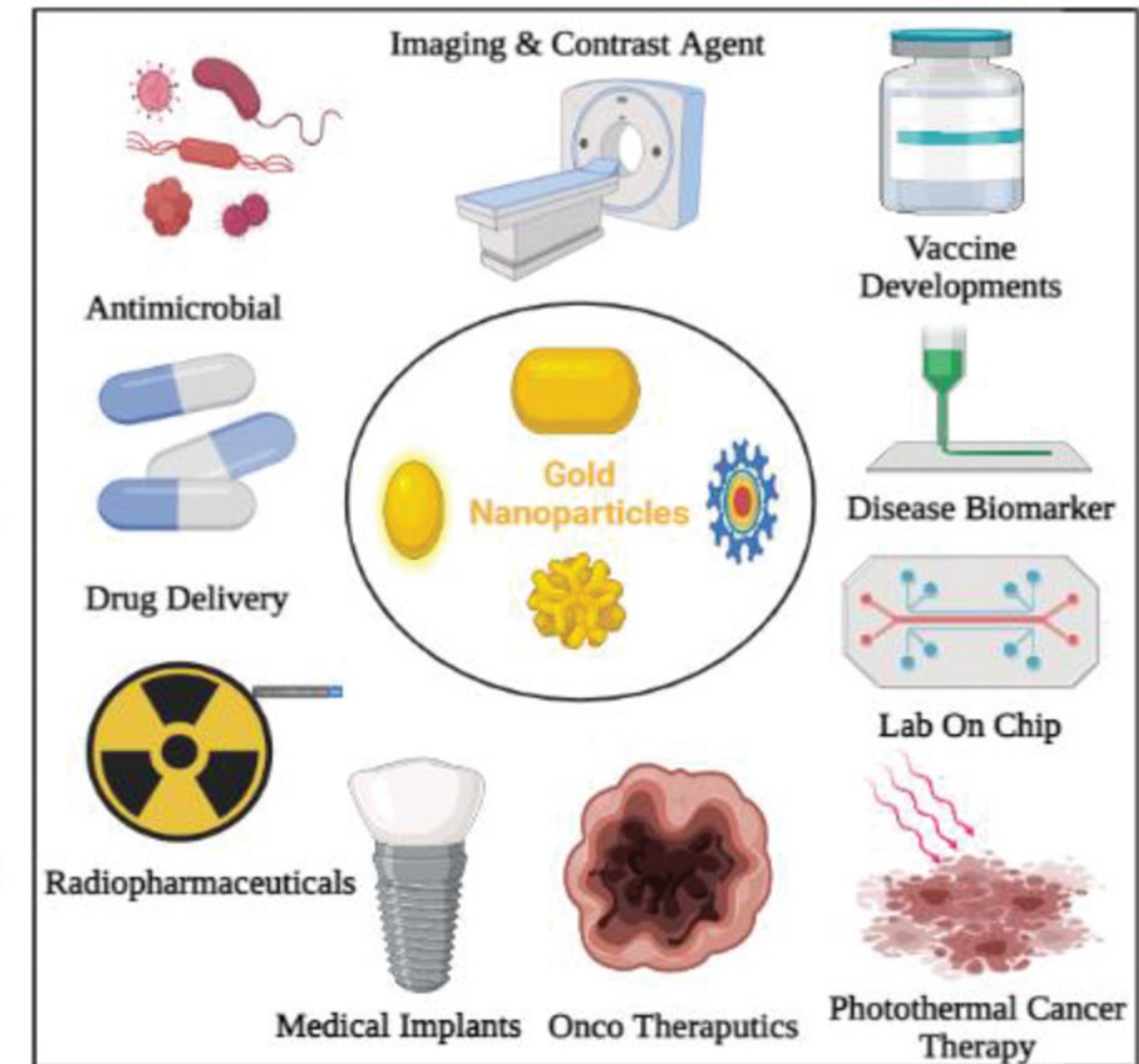
Main partners:



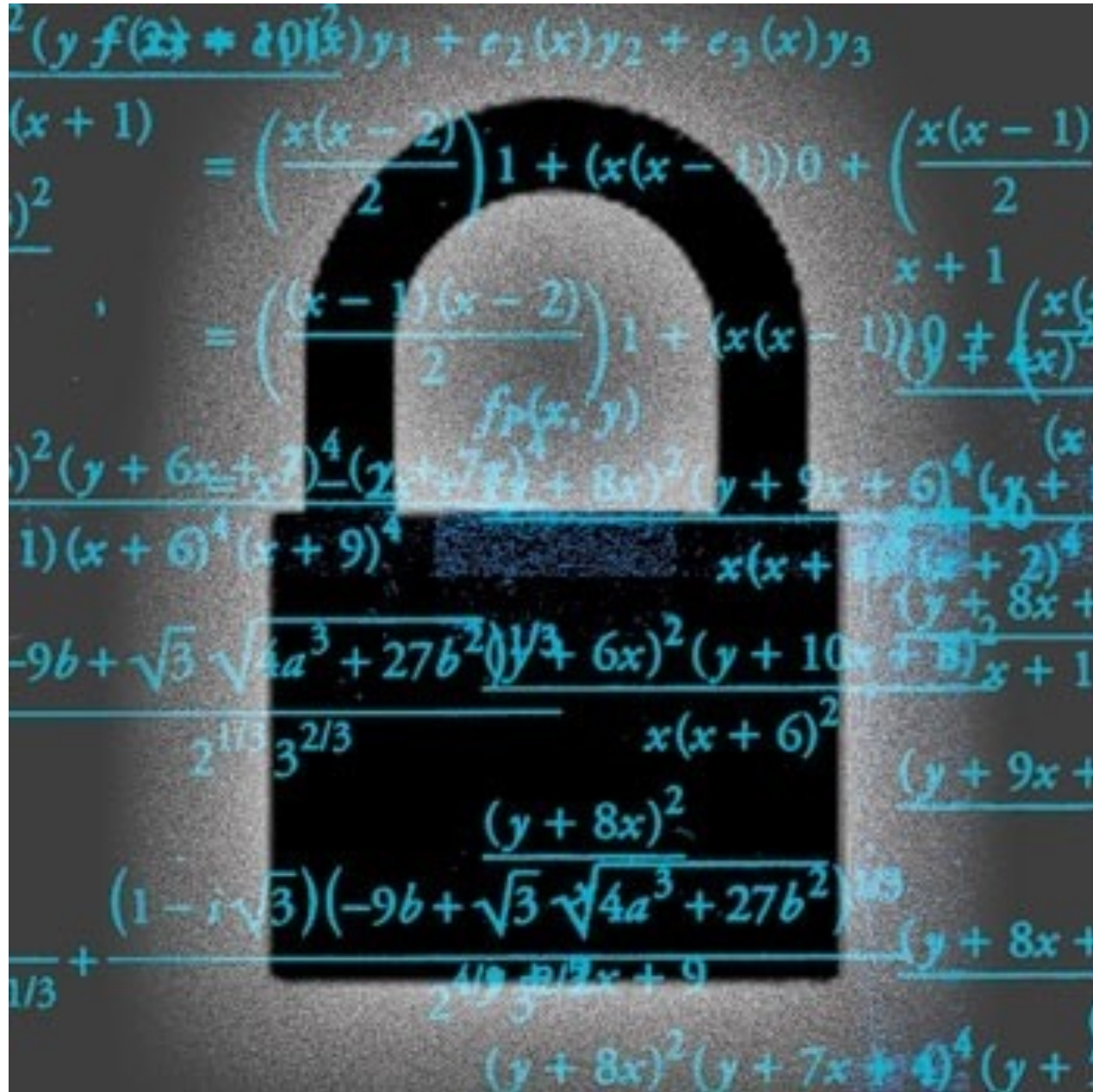
Center of Advanced Functional Materials



Biomedical & Clinical Applications of Gold Nanoparticles.



Center of Cryptography and Cyber Security



Main partners:

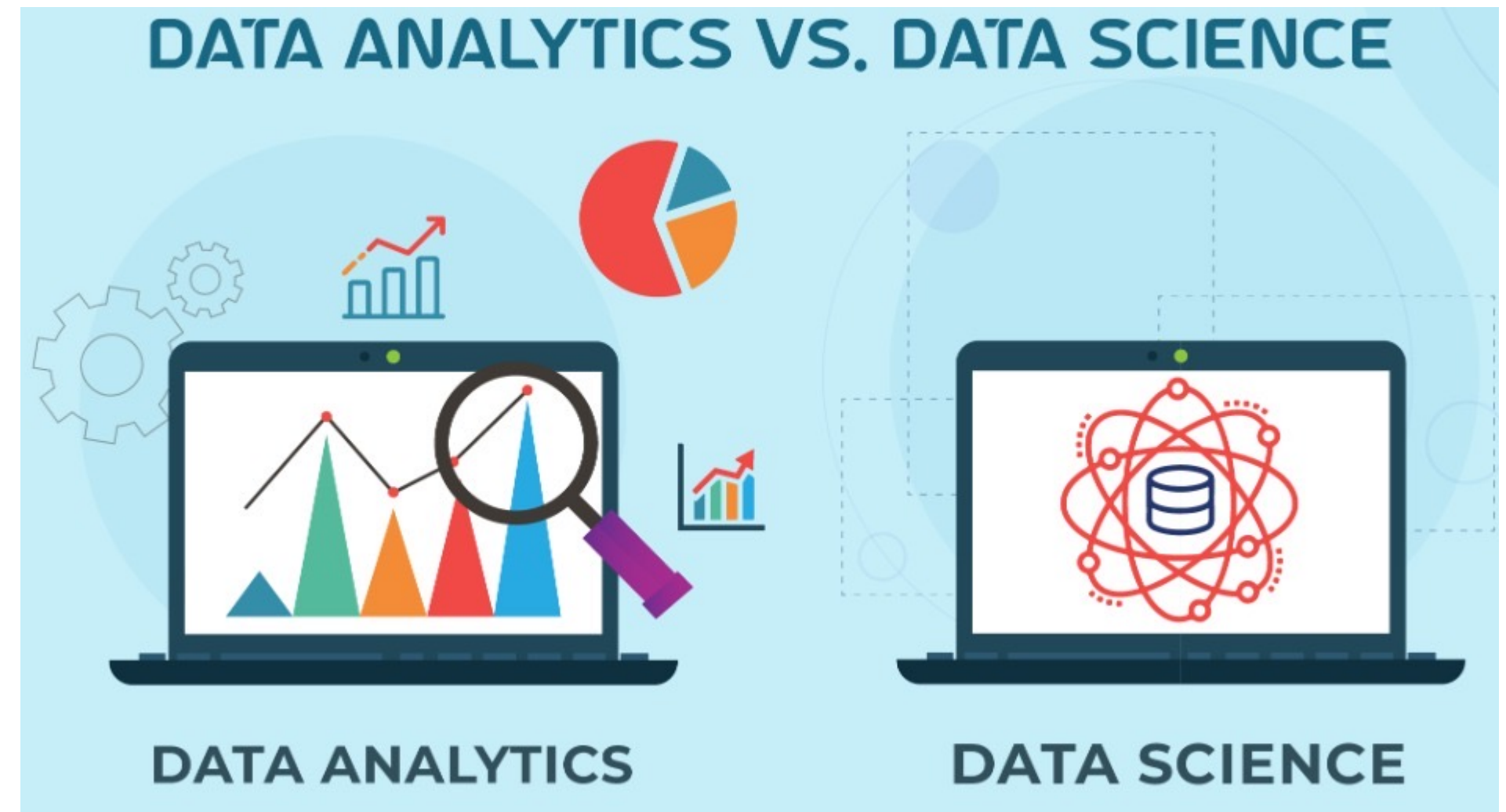
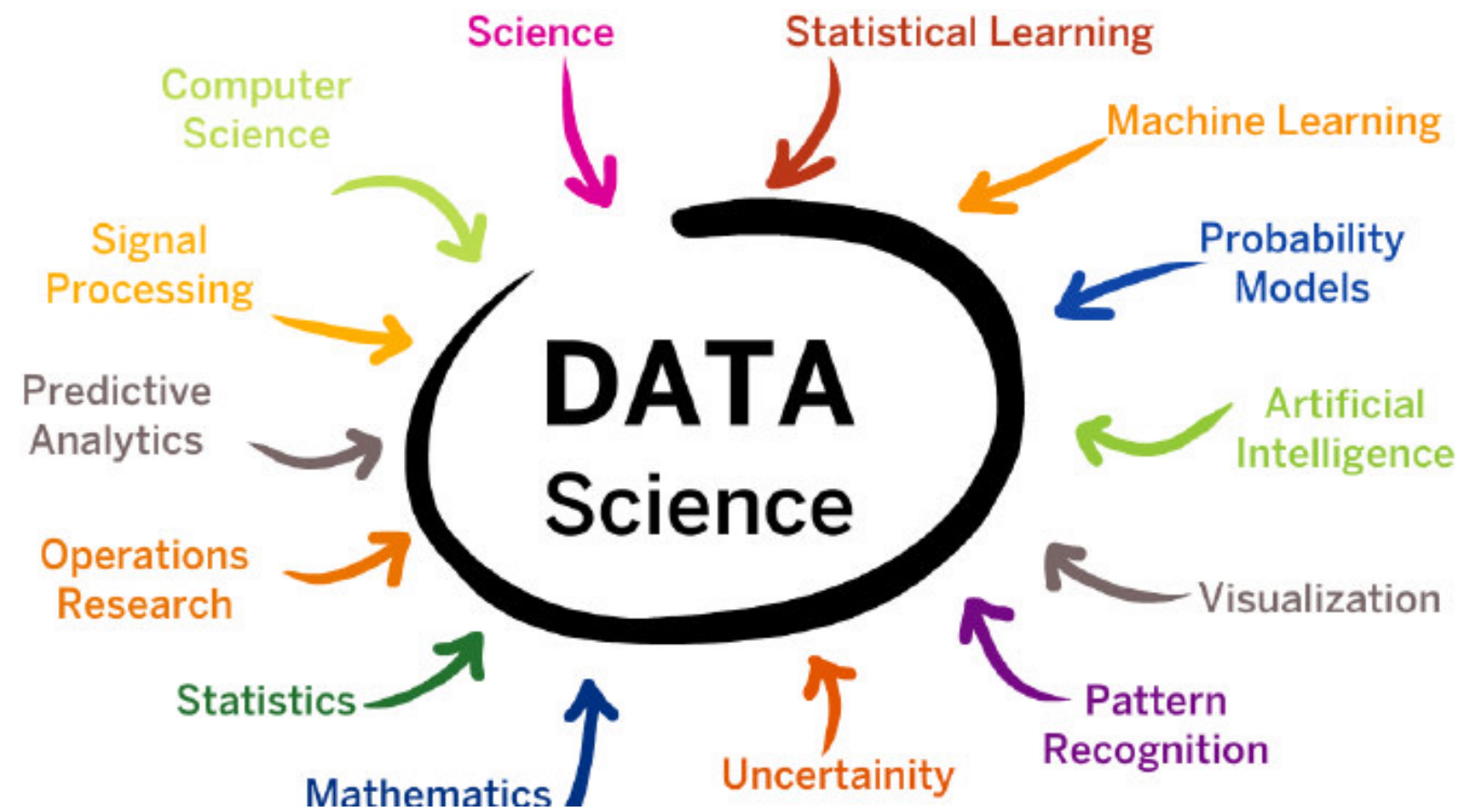


SANDHIGUNA
សាងក្បួន

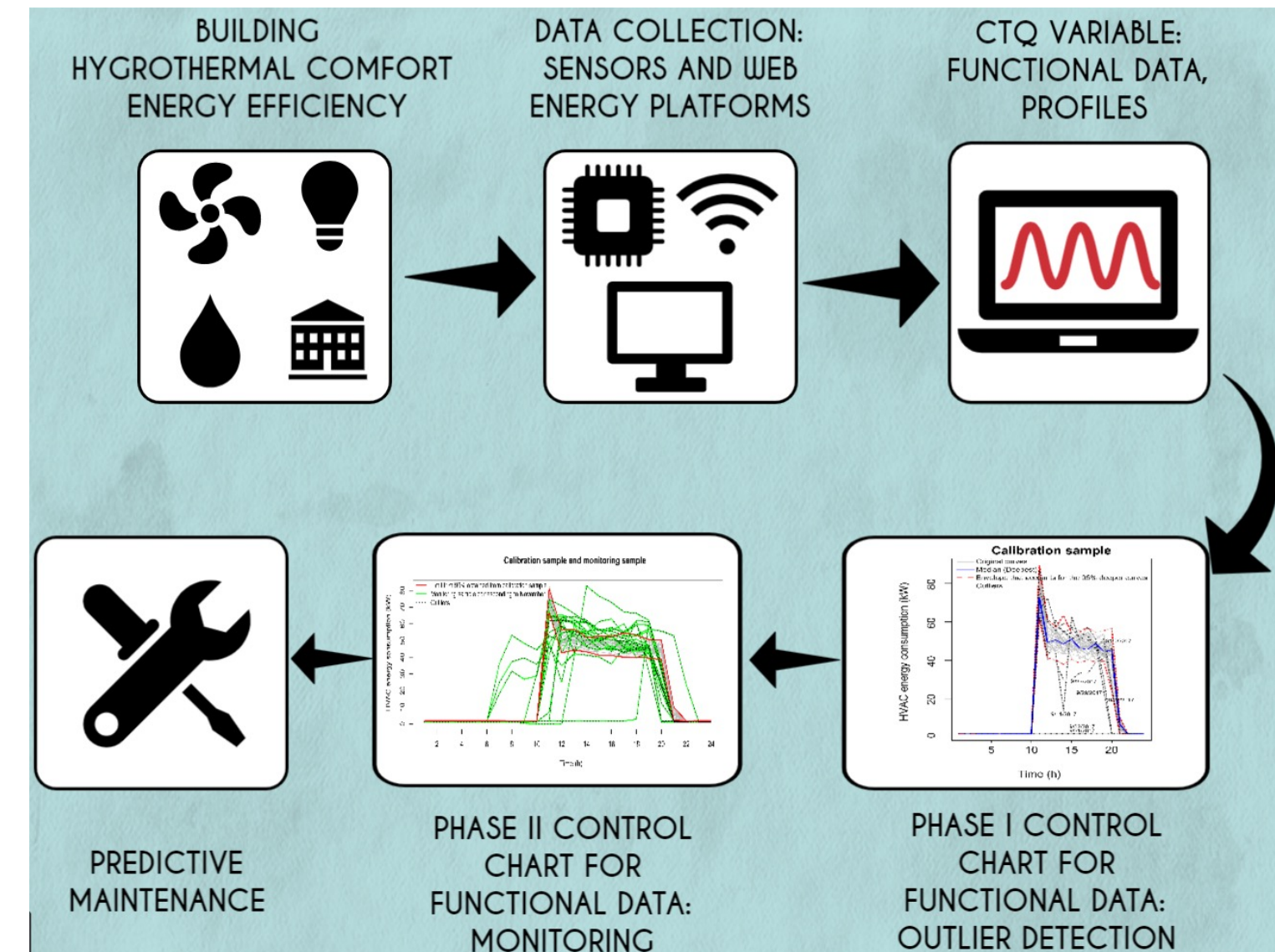
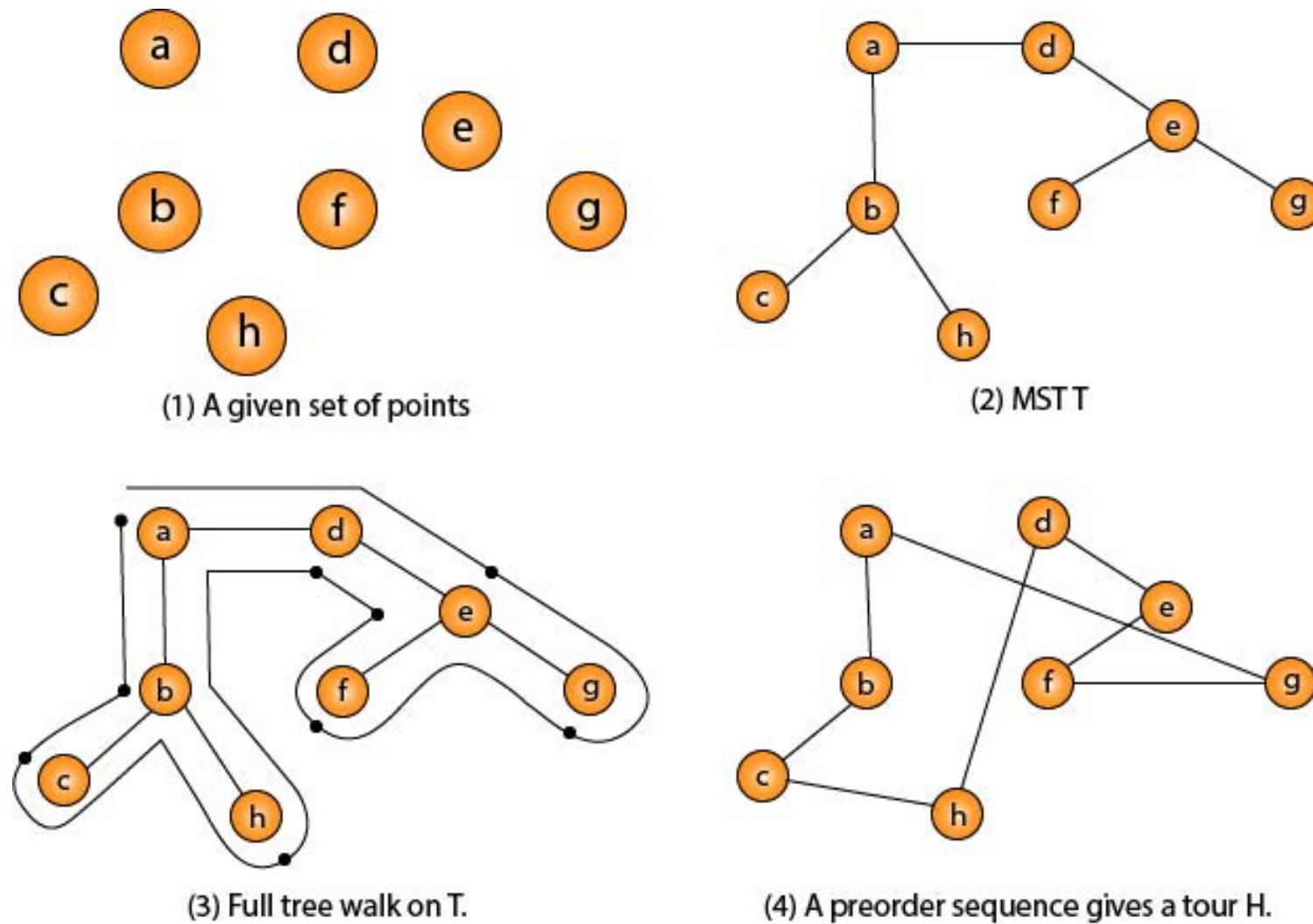


UNIVERSITAS GADJAH MADA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
CENTER FOR CRYPTOGRAPHY AND CYBERSECURITY RESEARCHES

Center of Data Analytics



Center of Control, Mathematical Modelling, and Optimization



- Optimization for Healthcare and Industrial Problems
- Mathematical Modeling for Medical, Ecology, and Social Problems with Stochastic Control.

Some Student Exchanges/Mobility Programs/Summers



University of Birmingham

Dual degree program for BSc in Computer Science and Chemistry

01



Kanazawa University

Dual degree for MSc in Computer Science

02



National Central University Taiwan

Dual degree for MSc in Computer Science

03



University of Twente

Join degree for PhD in Mathematics

04



National Taiwan University of Science and Technology

Dual Master Degree in Computer Science

05



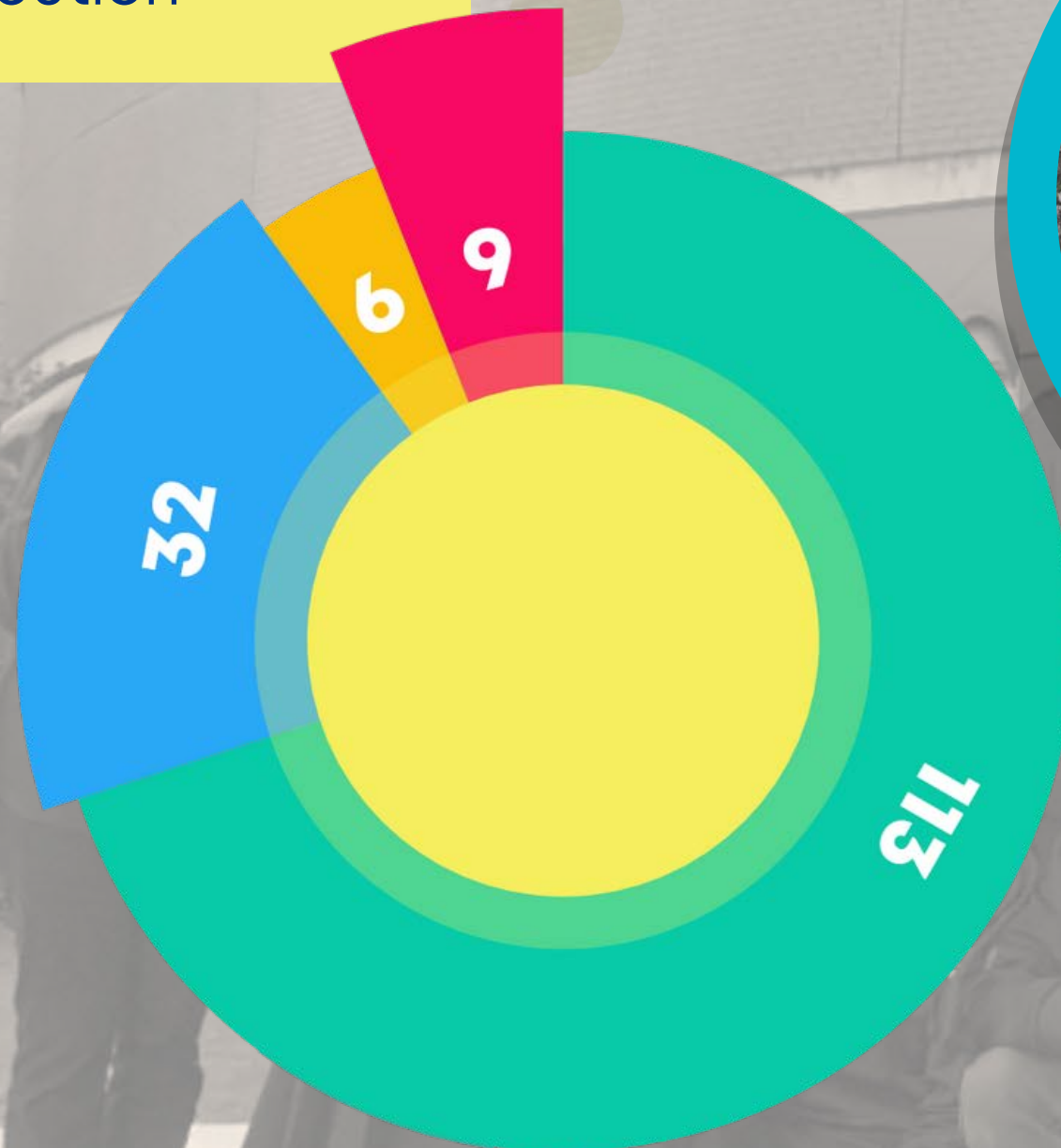
National Tsing Hua University, Taiwan

Double Degree for Ph.D

06

Student Exchange/Mobility Programme/Summer Camp

Student Exchange
Distribution



Notes:

■ Amerika
■ Australia

■ Europe
■ Asia



DUAL DEGREE S1 FMIPA UGM – LUNG HUA UNIVERSITY



2024 International New Type Program
FMIPA UGM Students Scholarship*) **S1**
Semiconductor Engineering
FMIPA UGM – Lung Hua University

Beasiswa Total:
Rp. 5,1 MILIAR

- *) Khusus Mahasiswa tahun ke-3 atau tahun ke-4 dari Universitas Gadjah Mada
- *) Diperlukan sertifikat TOEFL/TOEIC/IELTS Level CEFRI **contoh TOEFL ITP 500**

DUAL DEGREE S1 FMIPA UGM – I SHOU UNIVERSITY



2024 International New Type Program
FMIPA UGM Students Scholarship
S1 Artificial Intelligent Technology
FMIPA UGM – I Shou University

Beasiswa Total:
Rp. 5,1 MILIAR

- *) Khusus Mahasiswa tahun ke-3 atau tahun ke-4 dari Universitas Gadjah Mada
- *) Diperlukan sertifikat TOEFL/TOEIC/IELTS Level CEFR B1 **contoh TOEFL ITP 500**

Research Strength

- Geophysical Cloud Based Computational Tool
- Clean Technology Study
- Non-destructive testing device
- Monitoring device for applied science

Physics Department

- Cryptography
- Big Data and Data Analytics
- Prediction and Forecasting
- Pattern Recognition

Mathematics Department

- Local essential oil based bioactive compound
- Material application for food, oil, and gas industries
- Environment and water solution based from waste materials
- Molecular design in biological and chemical systems

Chemistry Department

- Smart Instrumentation and Sensor Transducer
- Telecommunication and Sensor Network
- Signal Processing and Embedded System
- Robotics, Data, and Image Processing

Computer Sciences and Electronics Department

COMMUNITY ENGAGEMENT/ Industrial Linkages

Community Service,
Ecoprinting
making training in Kebumen,
Central Java



Manufacturing of
handmade bath soap



MOU Signing Ceremony
with BRIN



Cooperation with Pertamina

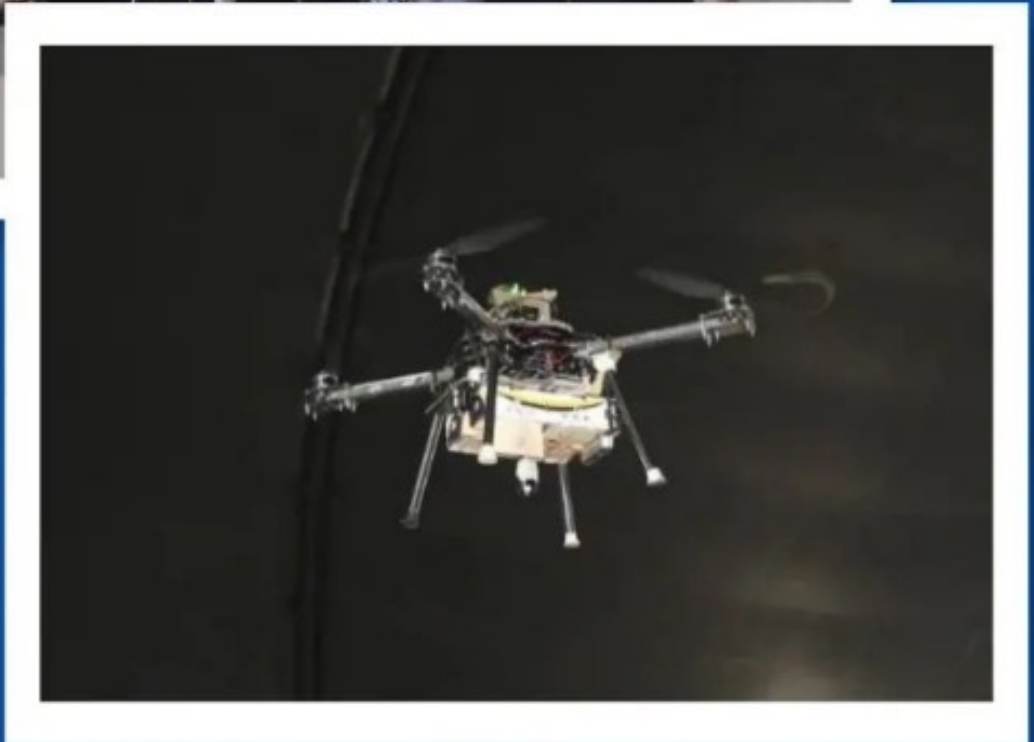
Student's Achievements



Tim Gajah Mada Flying Object Research Center (Gamaforce)



Gamaforce
Gamaforce
Gamaforce
Gamaforce
Gamaforce



**1st Champion Technology Vertical Drone
Mission (TVDM)
In Technogine 2023**

The image features a light blue background with decorative geometric shapes in the corners. The top-left corner has overlapping blue and light blue squares. The top-right corner has overlapping purple and light purple squares. The bottom-right corner has overlapping blue and light blue squares.

ขอบคุณมาก
ขอบคุณมาก

Terima Kasih