

# Selamat Datang di Fakultas Teknik Universitas Indonesia



# UNIVERSITAS INDONESIA



UNIVERSITAS  
INDONESIA

*Veritas, Probitas, Iustitia*





# Lokasi Kampus

Kampus Depok



Kampus Selamba



312 hektar kampus hijau





# UNIVERSITAS INDONESIA

# Sejarah Singkat

1849



1898



1946



1947

Universiteit van Indonesie

1950

Universitas Indonesia



Now

Nood Universiteit (Post World War II)

STOVIA  
(School tot Opleiding Van Inland Artsen)

Sekolah Dokter Jawa  
(Dokter java school)



# International recognitions



## 2019/2020 QS World University Rankings

- Ranks 1<sup>st</sup> in Indonesia
- Ranks 10<sup>th</sup> in Southeast Asia
- Ranks 57<sup>th</sup> in Asia
- Ranks 296<sup>th</sup> in the world
- Indonesia's most popular university





# Fakultas

- |  |     |                                       |
|--|-----|---------------------------------------|
| 1. Fakultas Kedokteran                         | 9.  | Fakultas Ilmu Sosial dan Ilmu Politik |
| 2. Fakultas Kedokteran Gigi                    | 10. | Fakultas Kesehatan Masyarakat         |
| 3. Fakultas Matematika & Ilmu Pengetahuan Alam | 11. | Fakultas Ilmu Komputer                |
| 4. <b>Fakultas Teknik</b>                      | 12. | Fakultas Ilmu Keperawatan             |
| 5. Fakultas Hukum                              | 13. | Program Pascasarjana                  |
| 6. Fakultas Eknlomi & Bisnis                   | 14. | Program Vokasi                        |
| 7. Fakultas Ilmu Pengetahuan Budaya            | 15. | Fakultas Ilmu Administrasi            |
| 8. Fakultas Psikologi                          |     |                                       |



Fakultas

**Teknik**



# Manajemen FTUI

*"Beyond Engineering Expectation"*



 <p><b>Wakil Dekan Bidang Pendidikan, Penelitian dan Kemahasiswaan</b> <i>Vice Dean for Academic, Research and Student Affairs</i> Dr. Ir. Muhamad Asvial, M.Eng</p>	 <p><b>Dekan</b> <i>Dean</i> Dr. Ir. Hendri D.S. Budiono, M.Eng</p>	 <p><b>Wakil Dekan Bidang Sumber Daya, Ventura dan Administrasi Umum</b> <i>Vice Dean for Resources, Venture and General Administration</i> Prof. Dr. -Ing. Nandy S.D. Putra</p>	
 <p><b>Ketua UPMA dan UP2SM</b> <i>Head of UPMA and UP2SM</i> Dr. Rahmat Nurcahyo</p>			
 <p><b>Manajer Pendidikan dan Kepala PAF</b> <i>Associate Dean for Academic &amp; Head of Faculty Administration Center (PAF)</i> Dr. Eng. Arief Udhiarto, S.T., M.T., IPM.</p>	 <p><b>Manajer Riset dan Pengabdian Masyarakat</b> <i>Associate Dean for Research &amp; Community Engagement</i> Dr. Eng Muhamad Sahlan, S.Si, M. Eng</p>	 <p><b>Manajer Kemahasiswaan dan Alumni</b> <i>Associate Dean for Student Affairs &amp; Alumni</i> Badrul Munir, Ph.D</p>	 <p><b>Manajer Umum dan Fasilitas</b> <i>Associate Dean for General Affairs &amp; Facilities</i> Dr. Dwi Marta Nurjaya, ST., MT</p>
 <p><b>Manajer Kerjasama dan Ventura</b> <i>Associate Dean for Cooperation &amp; Venture</i> Dr. Ir. Imansyah Ibnu Hakim, M.Eng</p>	 <p><b>Manajer Sumber Daya Manusia dan Administrasi Umum</b> <i>Associate Dean for Human Resources &amp; General Administration</i> Jos Istiyanto, Ph.D</p>	 <p><b>Koordinator Kelas Khusus Salamba</b> <i>Course Coordinator of FTUI Salamba Campus</i> Prof. Ir. Sutrasno Kartohardjono, M.Sc., Ph.D</p>	



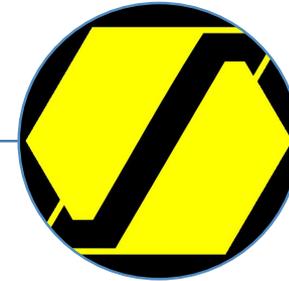
# SEJARAH FAKULTAS TEKNIK



Fakultas  
**Teknik**

Sejak 1964

*17 Juli 1964*



Teknik  
Sipil



Teknik  
Mesin



Teknik  
Elektro





1965



Teknik  
Metalurgi  
*Berubah mjd Teknik  
Metalurgi dan  
Material sejak 2000*

1965



Arsitektur

1985



Teknik Gas &  
Petrokimia

*Berubah mjd Teknik  
Kimia sejak 2006*

1999



Teknik  
Industri



# VISI FTUI

FTUI kebanggaan bangsa yang unggul dan mampu bersaing di Asia Tenggara

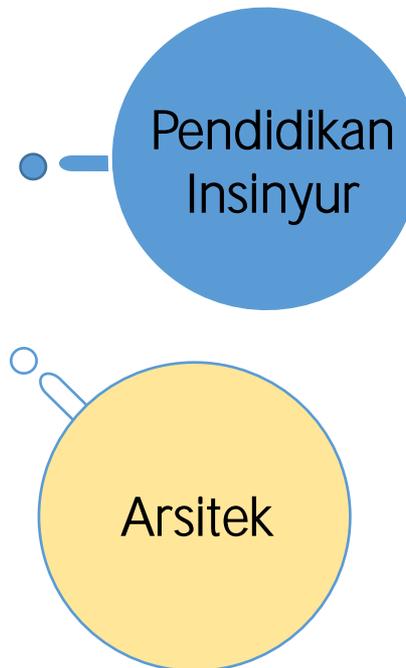


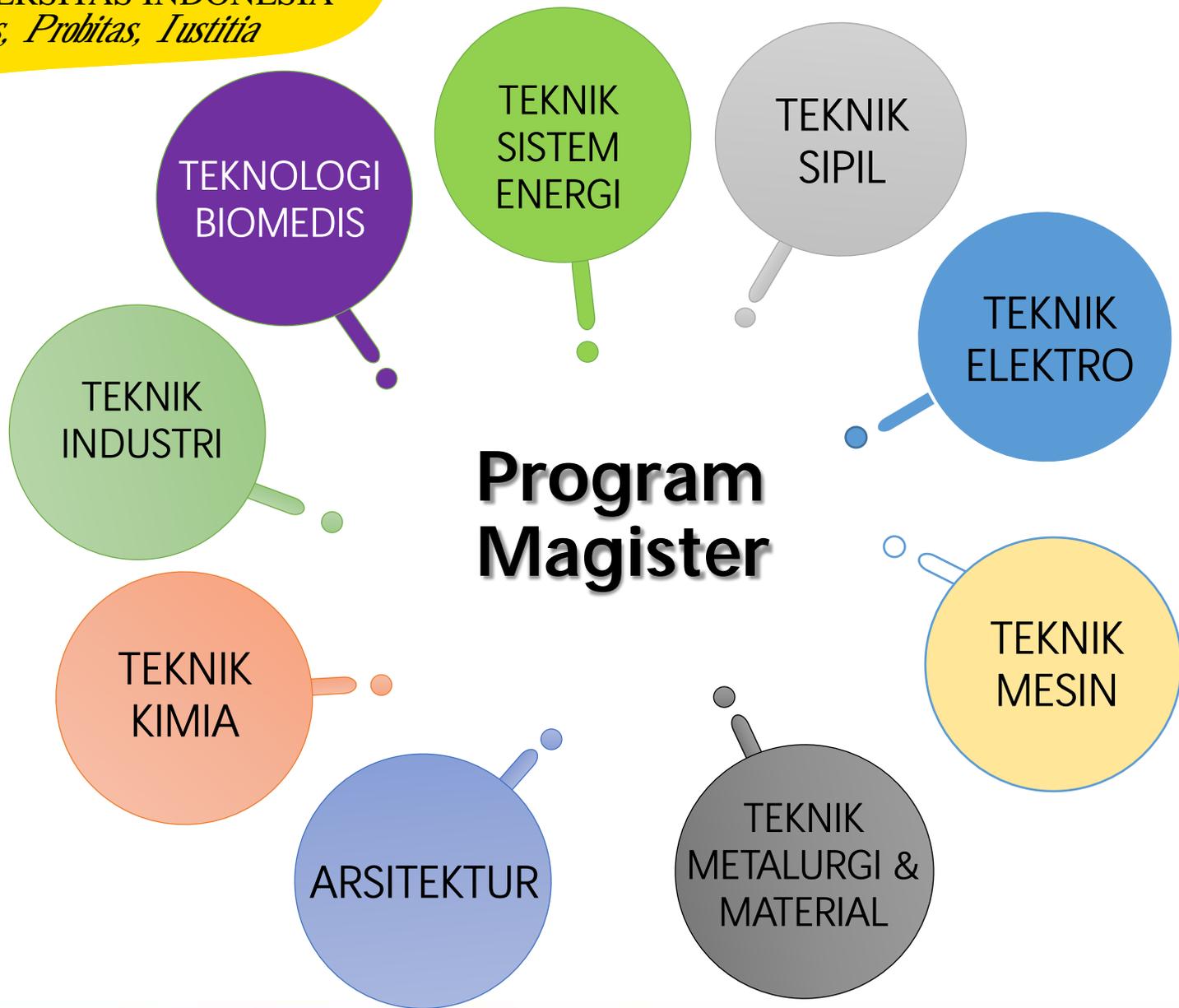


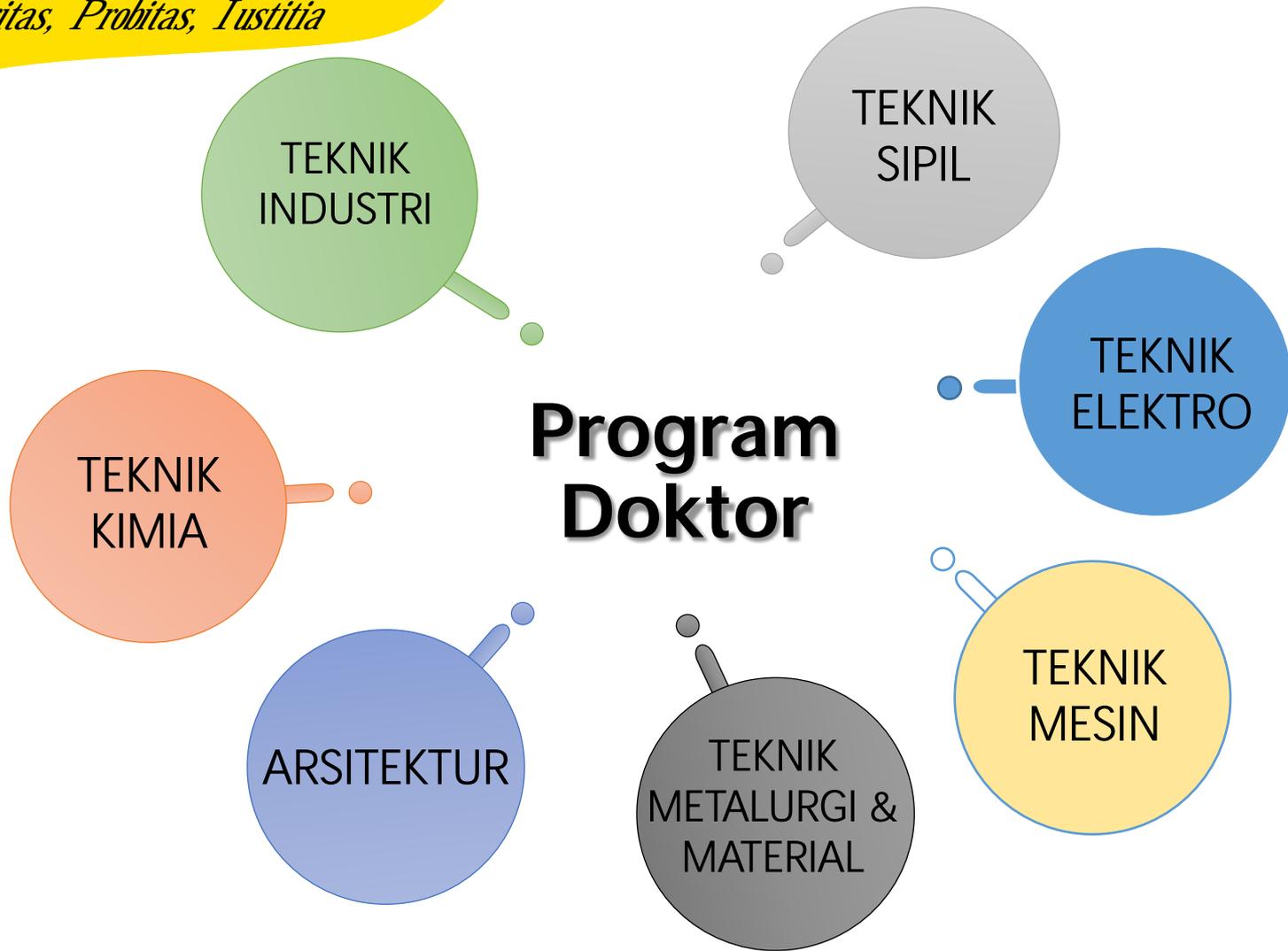
1. Mempersiapkan sarjana, magister dan doktor teknik yang berwawasan internasional dengan sistem manajemen dan pendidikan teknik terdepan (**Cutting-Edge Engineering Education & Management**) yang menjadi tolak ukur sistem pendidikan tinggi di kawasan Asia Tenggara.
2. Menyelenggarakan riset untuk pengembangan teknologi dan sains bangsa dengan fokus riset teknik terapan (**Applied Engineering Research**) yang dapat bersaing di kancah internasional namun bermanfaat bagi masyarakat Indonesia, tanpa mengabaikan riset yang telah menjadi tulang punggung FTUI.
3. Mendorong usaha komersialisasi produk teknik (**Engineering Enterprises**), pengabdian masyarakat yang profesional dan adaptif terhadap kebutuhan masyarakat dan industri serta berperan aktif dalam memecahkan tuntutan global dengan dukungan terhadap pembangunan yang berkelanjutan dan humanis.
4. Membangun dan mempersiapkan institusi teknik yang berbasis Teknologi Informasi Terpadu (**Integrated IT Based Institution**) yang efisien dan dapat menjadi acuan (benchmark) secara nasional serta mampu mengikuti perkembangan FTUI dan teknologi di masa datang.



# Program Profesi









**Akreditasi  
BAN PT S2**

Teknik Sipil **A**

---

Teknik Mesin **A**

---

Teknik Elektro **A**

---

Teknik Metalurgi  
dan Material **A**

---

Arsitektur **A**

---

Teknik Kimia **A**

---

Teknik Industri **A**

---

Teknologi Biomedis **B**



**Akreditasi  
BAN PT S3**

Teknik Sipil **A**

---

Teknik Mesin **A**

---

Teknik Elektro **A**

---

Teknik Metalurgi  
dan Material **A**

---

Arsitektur **A**

---

Teknik Kimia **A**

---

Teknik Industri **B**

# AUN and other International Assessment

Study Program	AUN	JABEE	IABEE
Civil Eng.	2008, 2015		
Environmental Eng.	2018		
Mechanical Eng.	2008		2018
Naval Eng.	2016		
Electrical Eng.	2010		
Metallurgy & Materials Eng.	2010		
Architecture	2010		
Chemical Eng.	2010	2017	2018
Bioprocess Eng.	2016		2018
Industrial Eng.	2013		
Computer Eng.	2018		



# Engineering and Technology

Explore the full table for the **QS World University Rankings by Subject 2019: Engineering and Technology**.

[Read more](#)

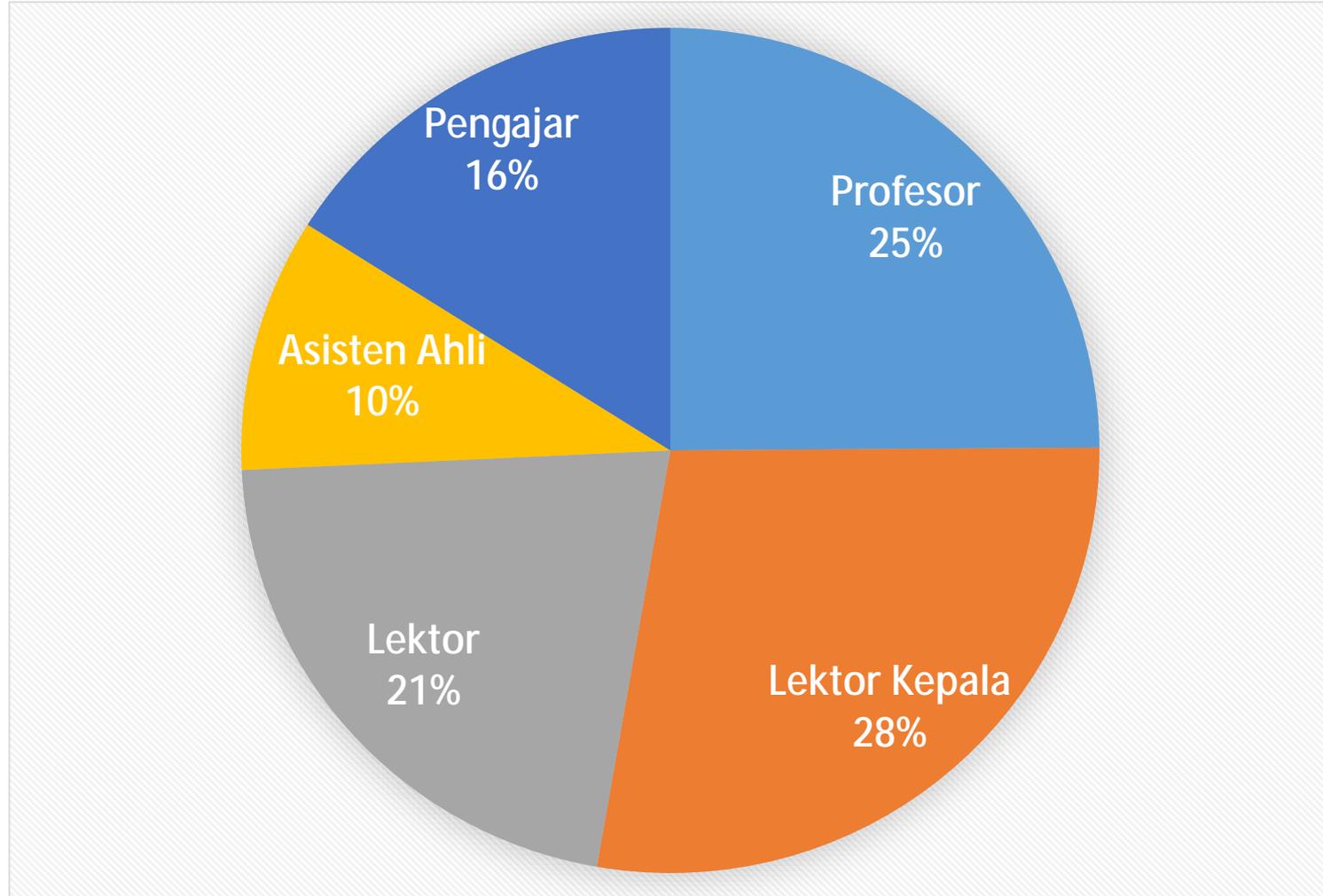
[Find out more](#)



=343		Universitas Indonesia	<a href="#">More</a>	Indonesia	<input type="checkbox"/>	
=343		University of York	<a href="#">More</a>	United Kingdom	<input type="checkbox"/>	
=347		Universidade Federal de Santa Catarina	<a href="#">More</a>	Brazil	<input type="checkbox"/>	
=347		University of Vienna	<a href="#">More</a>	Austria	<input type="checkbox"/>	
=349		Hiroshima University	<a href="#">More</a>	Japan	<input type="checkbox"/>	



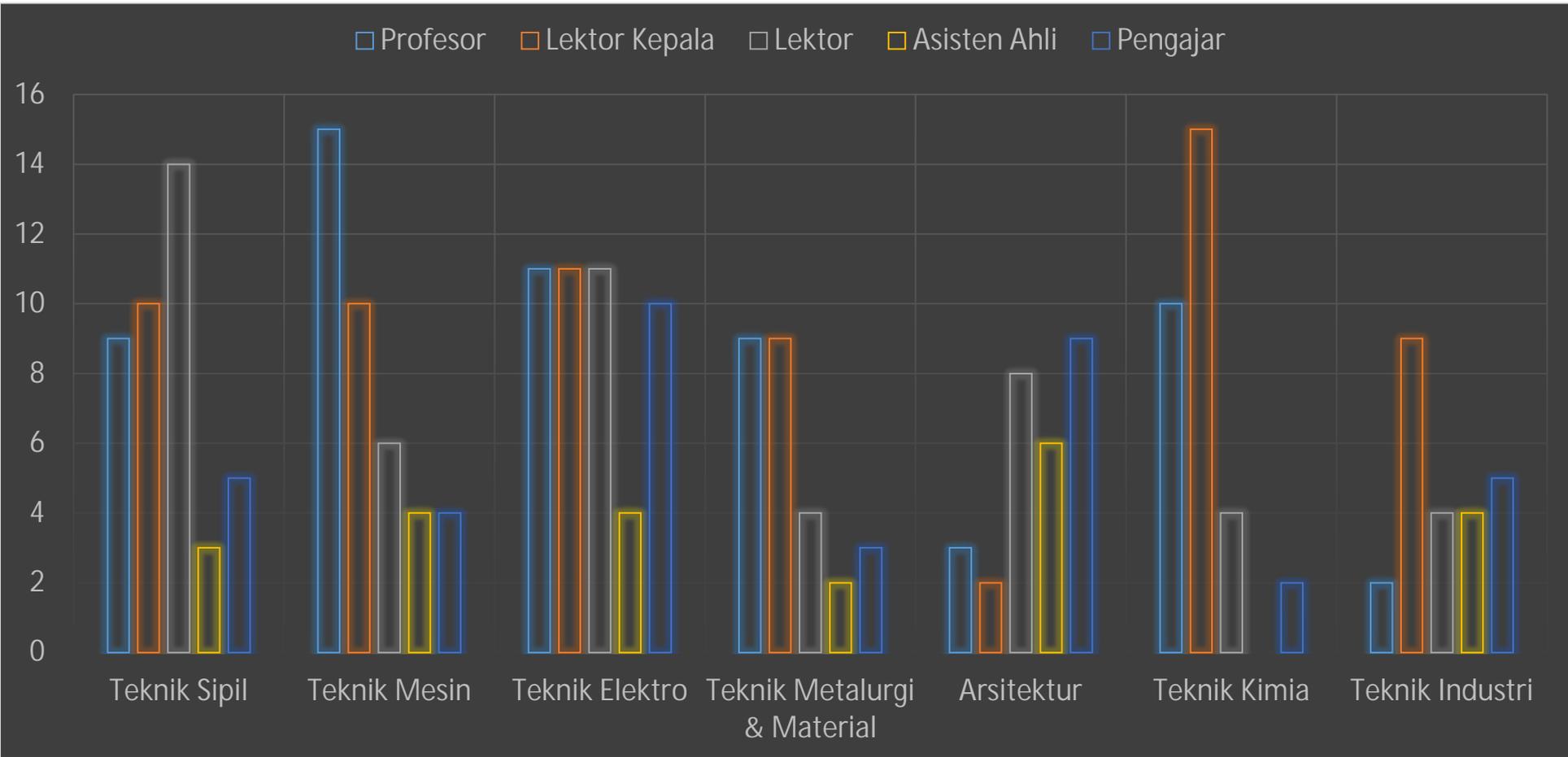
# Profil Dosen FTUI



Data per Agustus 2019



# Profil Jabatan Fungsional Dosen Departemen



# AKADEMIK





## REGISTRASI ADMINISTRASI:

- ✦ Pembayaran Biaya Pendidikan per semester

## REGISTRASI AKADEMIK (PERWALIAN):

- ✦ Isian Rencana Studi (IRS) Semester 1 sudah dipaketkan melalui SIAK-NG sesuai Program Studi-nya.
- ✦ Setiap mahasiswa memiliki Pembimbing Akademik (PA).
- ✦ Perwalian mulai semester ke-2 dilakukan melalui PA, baik secara on-line maupun tatap muka.
- ✦ IRS harus mendapat Persetujuan PA.





# Sanksi atas kelalaian registrasi

- ✦ Terlambat Registrasi Administrasi (bayar BOP) à **dikenakan denda 50 %**
- ✦ Tidak Registrasi Administrasi à status **KOSONG**
- ✦ Registrasi Administrasi namun tidak melakukan Registrasi Akademik à status **KOSONG**
- ✦ Status **KOSONG** selama dua semester berturut-turut, dinyatakan **mengundurkan diri sebagai mahasiswa UI tanpa pemberitahuan**



## Sistem Informasi Akademis *NextGeneration*

## No. Tel. Fakultas UI

### Login

Silakan masukkan *username* dan *password* sesuai dengan *account* UI Anda.

Username

Password

Login

Masa aktif *account* Anda adalah 6 bulan sejak dibuat atau sejak dilakukan penggantian *password*. Penggantian dan perpanjangan *password* untuk *account* yang masih aktif dapat dilakukan di <http://profile.ui.ac.id>

### Pelayanan Account UI

Pengambilan *account* baru, penggantian *password* jika lupa/hilang, atau perpanjangan *account* untuk *account* yang sudah tidak aktif dapat dilakukan di:

Gedung PPSI Lantai 1 Dekat Fasilkom/MTI

Kampus UI Salemba

Senin-Jumat 09.00-16.00

Tel. 31930308

Gedung C Fasilkom

Sabtu 09.00-14.00

Tel. 786-3419 ext. 3104

Gedung Pelayanan Mahasiswa Terpadu

Kampus UI Depok

Senin-Jumat 09.00-16.00

© 2006-2011 [Universitas Indonesia](http://www.ui.ac.id)

Pengembangan dan Pelayanan Sistem Informasi (PPSI) UI

Server: Node 2

- Fakultas Kedokteran

+62-21 391-2477

- Fakultas Kedokteran Gigi

+62-21 31930270, 3151035, 31931412

- Fakultas Matematika & IPA

+62-21 7863436

- Fakultas Teknik

+62-21 7863504, 78888430

- Fakultas Hukum

+62-21 7270003, 7863442

+62-21 3917252 (Salemba)

- Fakultas Ekonomi

+62-21 7863571, 7272649

+62-21 31935080, 31930260 (Salemba)

- Fakultas Ilmu Pengetahuan Budaya

+62-21 7863528, 7863529

- Fakultas Psikologi

+62-21 7270004, 7270005

- Fakultas Ilmu Sosial & Ilmu Politik

+62-21 78849018 (Ilmu Komunikasi)

+62-21 78849087 (Ilmu Administrasi)

+62-21 7863425, 7271574 (Kriminologi)

+62-21 78849025 (Sosiologi)

+62-21 7863426 (Ilmu Kesejahteraan Sosial)

+62-21 78881032 (Antropologi)

+62-21 7873744 (Ilmu Hubungan Internasional)

+62-21 786740, 7864739 (Ekstensi)

+62-21 3156941 (Magister Ilmu Komunikasi)

+62-21 3156940 (Magister Ilmu Politik)



1. Registrasi Akademik (mengisi IRS secara online)
2. Info Kalender Akademik per semester
3. Melihat jadwal kuliah dan jadwal ujian
4. Merekam data akademis (IRS, IP, daftar kuliah, dll)
5. Melengkapi Isian Data Mahasiswa (IDM)  
IDM digunakan untuk keperluan administrasi dan juga sebagai data untuk Ijazah & Transkrip.
6. lain-lain





- ✦ Membantu menyusun rencana studi dan memberi pertimbangan MK yang akan diambil
- ✦ Menyetujui IRS melalui SIAK NG
- ✦ Memberi pertimbangan tentang jumlah sks yang diambil
- ✦ Memantau perkembangan studi mahasiswa

MULAI SEMESTER KE-2, Mahasiswa mengisi IRS secara *online* dengan memperhatikan hal-hal berikut:

- a. Khusus semester 2 boleh mengambil sesuai paket kurikulum program studi
- b. Untuk semester 3 dan seterusnya, jumlah SKS yang diperbolehkan sesuai capaian IP Semester sebelumnya





# SATUAN KREDIT SEMESTER

- ✦ Semua kegiatan akademik diukur dalam sks.
- ✦ Beban 1 sks setara dengan (per pekan per semester)
  - a. Belajar dengan tatap muka 50 menit
  - b. 1 jam penugasan terstruktur (responsi, PR, tugas, dll)
  - c. 1 jam kegiatan mandiri (membaca, browsing internet, dll).
- ✦ Beban Studi Pendidikan Profesi 24 sks
- ✦ Beban Studi Pendidikan Magister 40 – 44 sks
- ✦ Beban Studi Pendidikan Doktor 52 sks





# KEGIATAN BELAJAR MENGAJAR

## Satu Semester :

16 pekan kegiatan Perkuliahan + Ujian

## Aktivitas :

- Kuliah Tatap Muka
- Praktikum
- Studio
- Tugas / Kuis / Presentasi
- Penelitian
- Publikasi ilmiah
- Tugas Akhir





# KURIKULUM PENDIDIKAN TINGGI (KPT) TAHUN 2016

## PROGRAM PASCASARJANA



# Program Profesi



No	Mata Kuliah	SKS
<b>SEMESTER I</b>		
1	Proyek Perancangan 1	6
2	Etika dan Praktik Keprofesian	3
3	Teknologi dan Lingkungan Berkelanjutan	3
<b>Jumlah SKS</b>		<b>12</b>
<b>SEMESTER II</b>		
1	Proyek Perancangan II	6
2	Teori Perancangan Arsitektur	3
3	Pilihan	3
<b>Jumlah SKS</b>		<b>12</b>
<b>Total SKS</b>		<b>24</b>





# Profesi Insinyur

No	Mata Kuliah	SKS
<b>SEMESTER I</b>		
1	Kode Etik dan Etika Profesi Insinyur	2
2	Profesionalisme	2
3	Keselamatan, Kesehatan Kerja dan Lingkungan (K3L)	2
4	Studi Kasus	4
<b>Jumlah SKS</b>		<b>10</b>
<b>SEMESTER II</b>		
1	Praktek Keinsinyuran	12
2	Seminar	2
<b>Jumlah SKS</b>		<b>14</b>
<b>Total SKS</b>		<b>24</b>



# Program Magister



## SK Rektor no 015/SK/R/UI/2016

- **Beban Studi : 40 – 44 SKS**
- **Publikasi ilmiah dari hasil riset Tesis**  
Mahasiswa S2 diwajibkan paling sedikit mengikuti seminar atau Konferensi Nasional/ Internasional dimana makalah disajikan secara oral atau poster, atau dipublikasi dalam Jurnal Nasional/ Internasional
- **Masa Studi**
  - ü Kurikulum dirancang 4 Semester
  - ü Selama-lamanya 6 Semester (Batas Studi)
  - ü Sekurang-kurangnya 2 semester





# PERATURAN REKTOR UI TTG PENYELENGGARAAN PROGRAM S2

- **Matrikulasi**
  - ü **Bagi lulusan Diploma IV atau S1 yang tidak sebidang dengan program magister yang diambil.**
  - ü **Mata kuliah ditentukan oleh Prodi dan mengikuti kuliah pada kurikulum jenjang pendidikan di bawahnya (S1)**
  - ü **Beban SKS matrikulasi : maksimal 12 (diselesaikan dalam 2 semester)**
  - ü **Mahasiswa harus lulus mata kuliah matrikulasi dengan IPK minimal 3.0.**



Jumlah SKS yang dapat diambil per semester :

- Mengacu pada struktur kurikulum Program Studi
- Tergantung IP semester sebelumnya

IP Semester sebelumnya	SKS maksimum yang dapat diambil
< 2.50	9
2.50 – 3.00	12
3.00 – 3.50	15
3.50 – 4.00	18





# Evaluasi Studi

Mahasiswa S2 dinyatakan Putus Studi (Drop Out) bila:

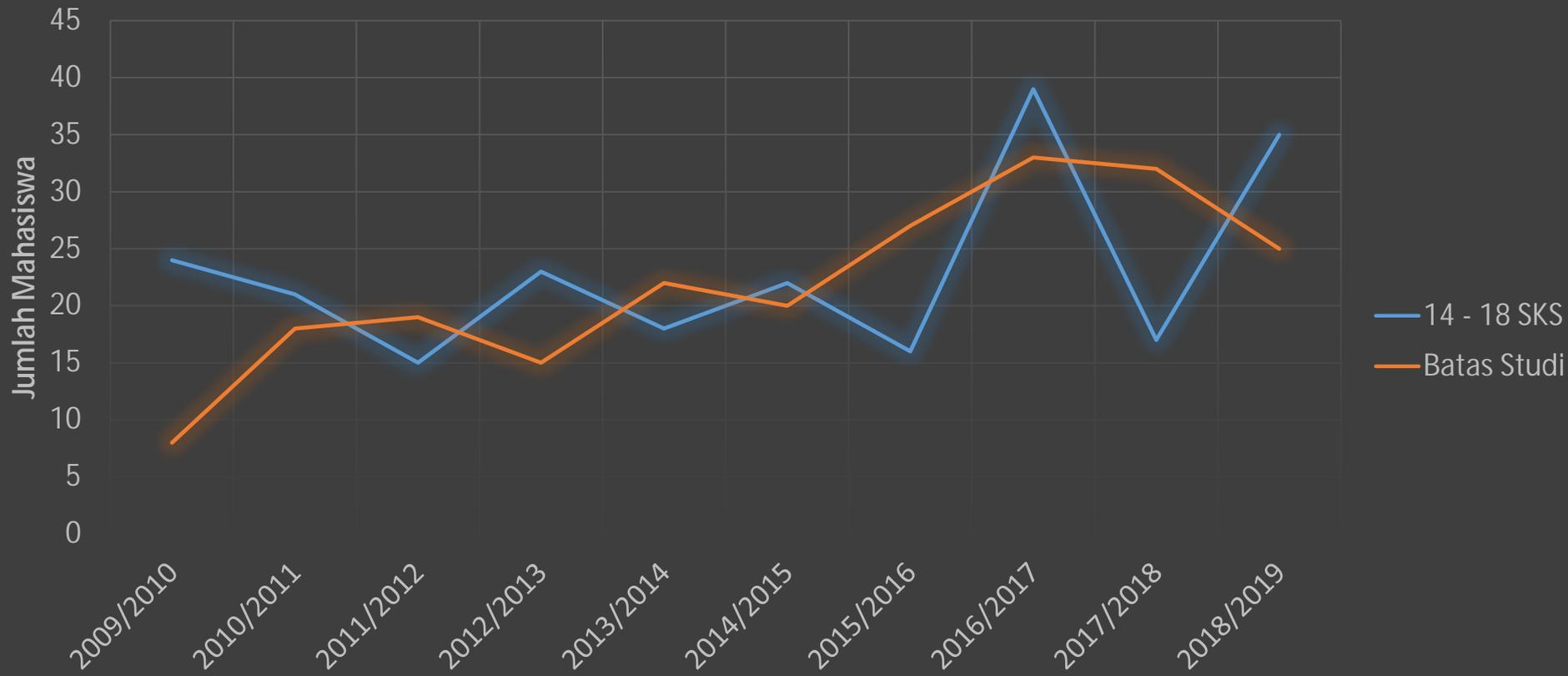
- ⌘ Hasil belajar 2 semester pertama : Tidak memperoleh indeks prestasi kumulatif minimal 3.0 dari jumlah 14 – 18 SKS terbaik
- ⌘ Akhir masa studi (6 semester): tidak menyelesaikan seluruh beban studi sebagai syarat kelulusan dengan IPK min 3.0
- ⌘ Dua semester berturut-turut tidak registrasi
- ⌘ Terkena Sanksi atas pelanggaran tata tertib Kampus

**TIDAK ADA PERINGATAN BAHWA MAHASISWA AKAN DI -DO**





# Mahasiswa Putus Studi Program Magister 2013 - 2019 Berdasarkan Jumlah SKS yang Wajib Dicapai



# Program Doktor



- SK Rektor no 027/SK/R/UI/2016
- Beban Studi : 52 sks
- Penyelenggaraan dengan cara: Kuliah & Riset
  - ü Kuliah : 18 sks
  - ü Riset + publikasi ilmiah (jurnal internasional): 34 sks
- Program Doktor terdiri dari 6 Semester (3 tahun);
  - dapat ditempuh sekurang-kurangnya 4 Semester, atau
  - selama-lamanya 10 Semester (Batas Studi)





## KURIKULUM PENDIDIKAN TINGGI 2016 PROGRAM DOKTOR – KULIAH & RISET

KODE/CODE	MATA AJARAN	SUBJECT	SKS
	Semester 1	1 <sup>st</sup> Semester	
ENGE901001	Metode Penelitian Lanjut	Advanced Research Method	6
ENXX900001	Kekhususan I	Special Subject I	4
		Sub Total	10
	Semester 2	2 <sup>nd</sup> Semester	
ENGE902002	Analisis Kualitatif & Kuantitatif	Qualitative & Quantitative Analysis	4
ENXX900002	Kekhususan II	Special Subject II	4
ENXX900004	Proposal Riset	Research Proposal	6
		Sub Total	14
	Semester 3	3 <sup>rd</sup> Semester	
ENXX900006	Publikasi - Konferensi Internasional	Publication - International Conference	4
		Sub Total	4
	Semester 4	4 <sup>th</sup> Semester	
ENXX900007	Ujian Hasil Riset	Research Result Examination	10
		Sub Total	10
	Semester 5	5 <sup>th</sup> Semester	
ENXX900008	Publikasi II - Jurnal Internasional	Publication II - International Journal	8
		Sub Total	8
	Semester 6	6 <sup>th</sup> Semester	
ENXX900010	Sidang Promosi	Doctoral Promotion	6
		Sub Total	6
Total			52





# Jalur Riset

KODE/CODE	MATA AJARAN	SUBJECT	SKS
	Semester 1	1 <sup>st</sup> Semester	
ENXX900003	Seminar Berkala Kelompok Ilmu	Research Group Periodic Seminar	8
		Sub Total	8
	Semester 2	2 <sup>nd</sup> Semester	
ENXX900004	Proposal Riset	Research Proposal	6
		Sub Total	6
	Semester 3	3 <sup>rd</sup> Semester	
ENXX900005	Publikasi I - Konferensi Internasional	Publication I - International Conference	6
		Sub Total	6
	Semester 4	4 <sup>th</sup> Semester	
ENXX900007	Ujian Hasil Riset	Research Result Examination	10
		Sub Total	10
	Semester 5	5 <sup>th</sup> Semester	
ENXX900008	Publikasi II - Jurnal Internasional	Publication II - International Journal	8
		Sub Total	8
	Semester 6	6 <sup>th</sup> Semester	
ENXX900009	Publikasi III - Jurnal Internasional	Publication III - International Journal	8
ENXX900010	Sidang Promosi	Doctoral Promotion	6
		Sub Total	14
Total			52





# EVALUASI PUTUS STUDI – PROGRAM DOKTOR

Evaluasi akhir 4 Semester pertama; minimal nilai B untuk Ujian Proposal Riset

Evaluasi akhir 6 Semester pertama; minimal capaian Riset 50 % berdasarkan penilaian tim promotor.

Evaluasi akhir 8 Semester pertama; minimal capaian Riset 75 % berdasarkan penilaian tim promotor (Ujian Hasil Riset)

Evaluasi 10 Semester; minimal telah menyerahkan artikel ilmiah yang sudah diterima dalam jurnal internasional yang terindeks sebagai penulis utama



# RENTANG NILAI

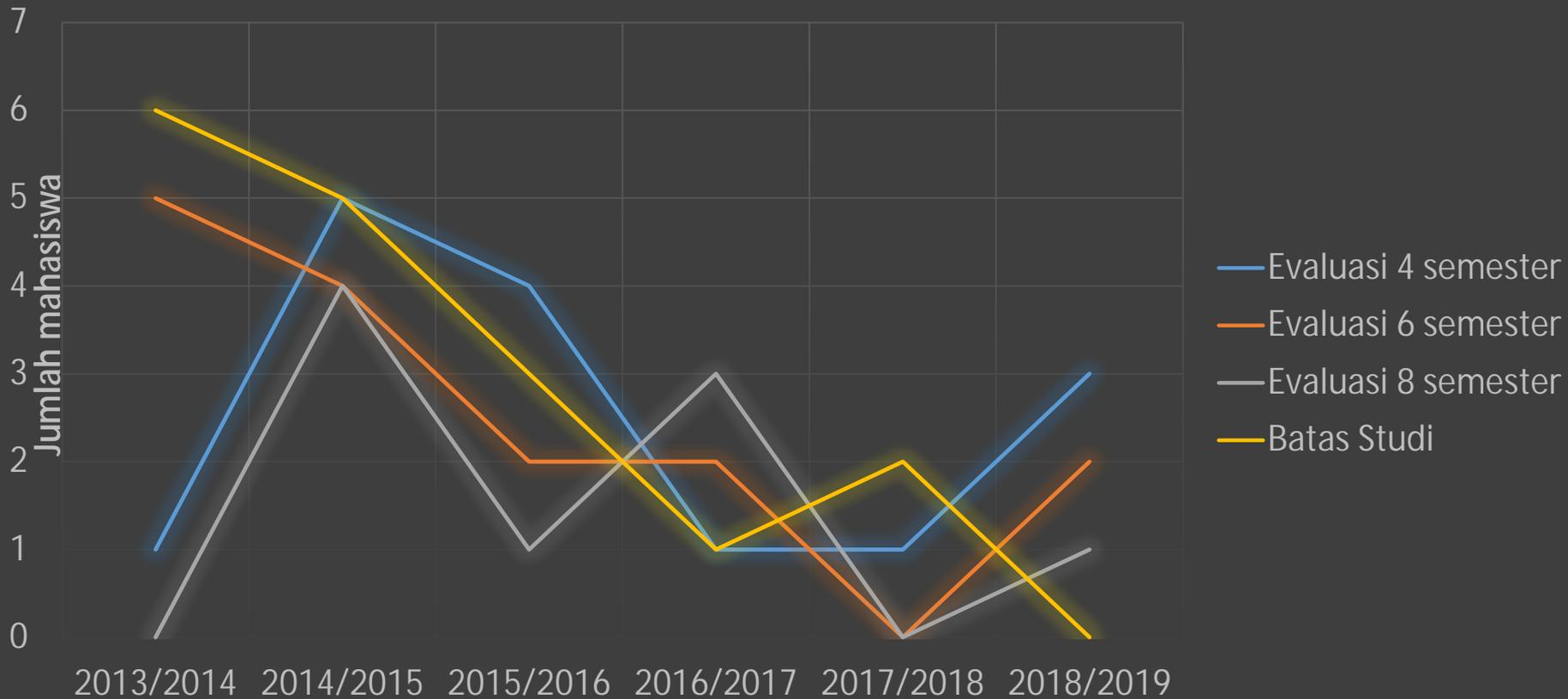
Nilai Huruf	Nilai Angka	Bobot
A	85 – 100	4.00
A-	80 – 84.99	3.70
B+	75 – 79.99	3.30
B	70 – 74.99	3.00
B-	65 – 69.99	2.70
C+	60 – 64.99	2.30
C	55 – 59.99	2.00
D	40 – 54.99	1.00
E	0 – 39.99	0.00

**Lulus**  
↑

- + Nilai I (incomplete) → dalam satu bulan berubah menjadi nilai lain
- + Nilai T → mahasiswa tidak pernah hadir
- + Nilai BS (Belum Selesai) → hanya berlaku untuk Mata Kuliah \_\_\_\_\_  
Spesial yang belum diujikan sehingga belum ada nilai



# Mahasiswa Putus Studi Program Doktor 2013 - 2019 Berdasarkan Evaluasi Studi





# CUTI AKADEMIK

- ✎ Cuti tidak dihitung sebagai masa studi.
- ✎ Hanya untuk mahasiswa yang telah menjalani perkuliahan minimum 2 semester, kecuali karena alasan khusus.
- ✎ **Maksimum cuti : 2 semester.**
- ✎ Cuti yang direncanakan:  
Permohonan cuti diajukan sebelum pelaksanaan registrasi administrasi, dan bila status "cuti" sudah muncul di SIAKNG, maka hanya dikenakan biaya pendidikan sebesar 25%.
- ✎ Cuti di luar rencana:  
Bila pengajuan cuti tidak sesuai dengan periode yang ditetapkan, maka tetap dikenakan biaya pendidikan 100%.





Double degree program doktor dengan *Shizuoka University*  
Jepang





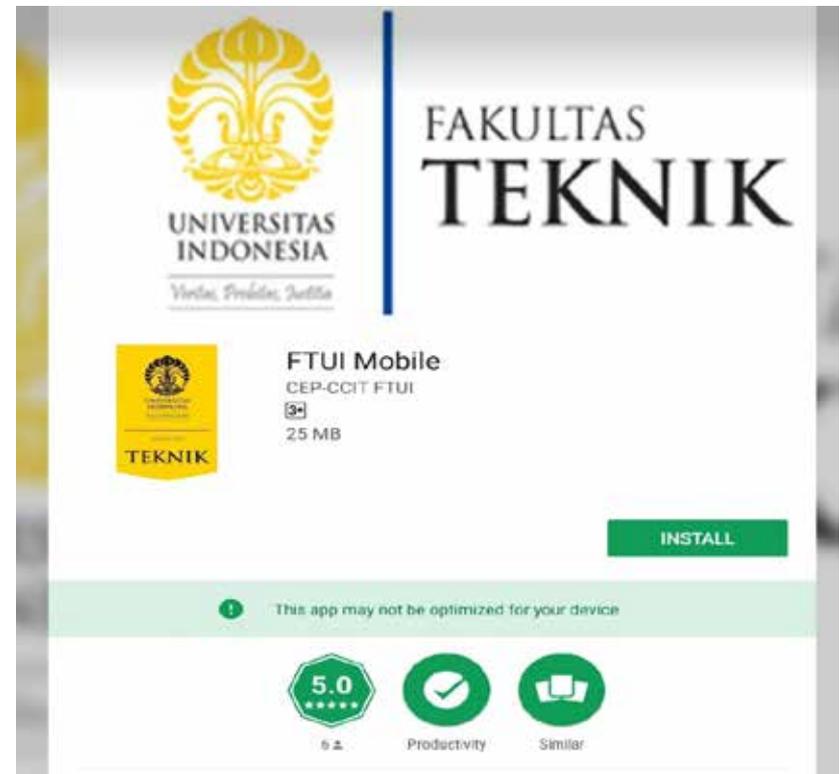
# KALENDER AKADEMIK Semester Gasal 2019/2020

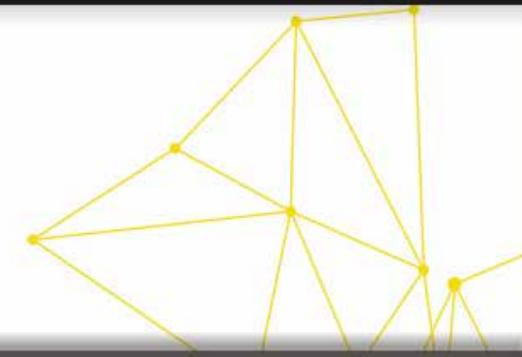
- ž Perkuliahan & Ujian: 2 September – 27 Desember 2019
- ž Waktu Kuliah: 08.00 – 21.30
- ž Jadwal kuliah, Jadwal Ujian Akhir Semester & Ruang kuliah dapat dilihat pada SIAK-NG
- ž Ruang Kuliah :
  - ž Gedung K
  - ž Gedung GK (+ Pusat Komputer & Layanan PAF)
  - ž Gedung EC (Gedung *Engineering Center*)
  - ž Gedung S
  - ž Gedung A (Gedung Pasca)
  - ž Gedung FTUI Salemba



# Academic Guidebook

- Tersedia di Play Store





# ACADEMIC GUIDEBOOK

## 2016 - 2020



- PROFILE OF FTUI AND DEPARTMENTS
- ACADEMIC SYSTEM AND REGULATION
- FACILITIES AND CAMPUS LIFE
- UNDERGRADUATE PROGRAM
- PROFESSIONAL PROGRAM
- MASTER PROGRAM
- DOCTORAL PROGRAM

# PUSAT ADMINISTRASI FAKULTAS

## Memberi Layanan Akademik:

- ✦ Penjadwalan Perkuliahan & UAS
- ✦ Penggunaan Ruang Kuliah
- ✦ Daftar Nilai Mahasiswa
- ✦ Penyerahan Ijazah dan Transkrip Nilai Lulusan
- ✦ Administrasi Akademik lainnya





*Terima kasih*



UNIVERSITAS INDONESIA



Université Blaise Pasca



# KESEMPATAN BELAJAR DI LUAR NEGERI



UNIVERSITAS  
INDONESIA

*Veritas, Probitas, Justitia*

— EST. 1849 —

**Research and Community Engagement**

**In Faculty of**

**Engineering**



## Motto

BEYOND ENGINEERING EXPECTATION (BE<sup>2</sup>)

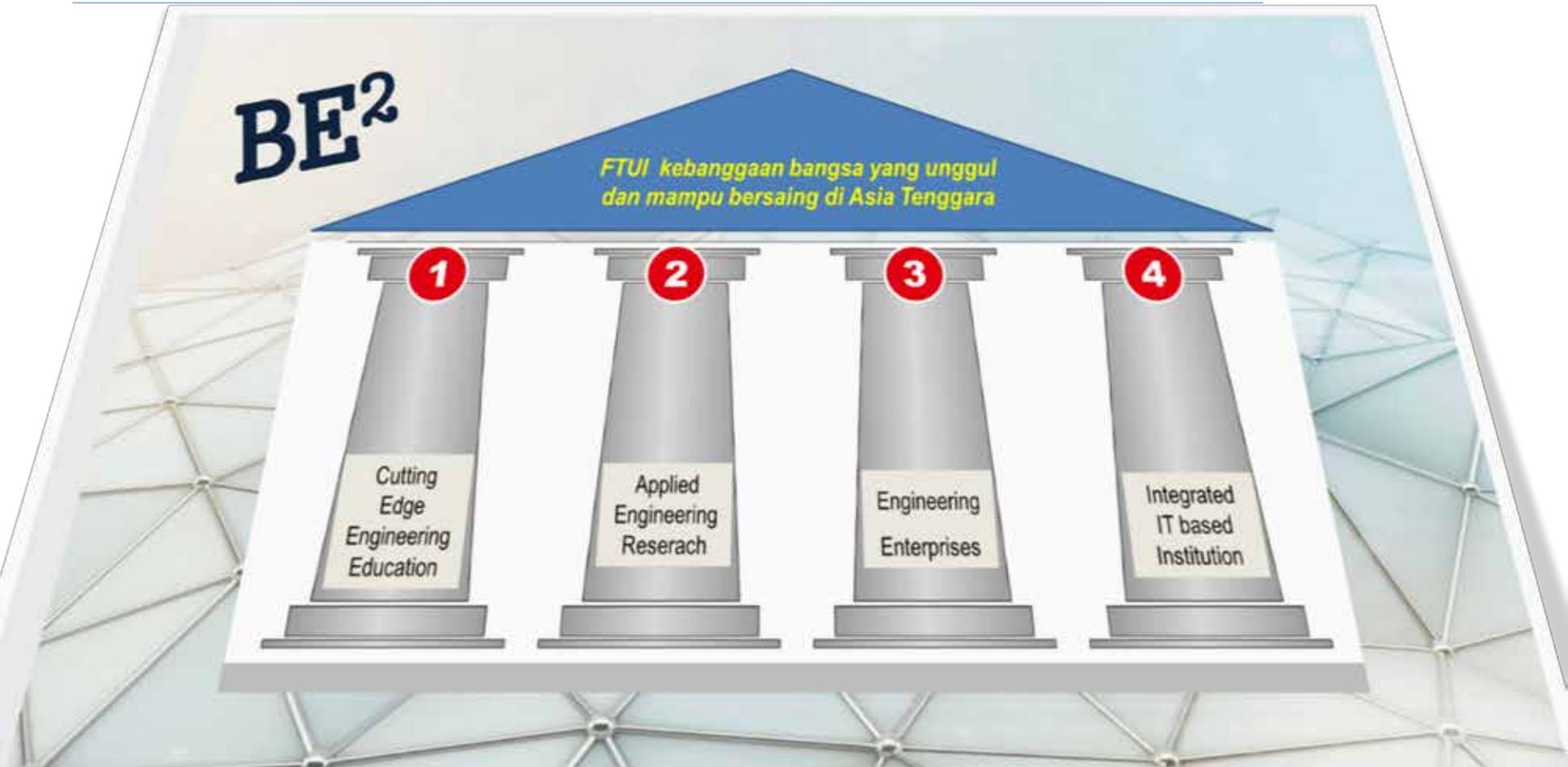
# Visi

“FT UI kebanggaan bangsa, unggul dan mampu bersaing di Asia Tenggara”

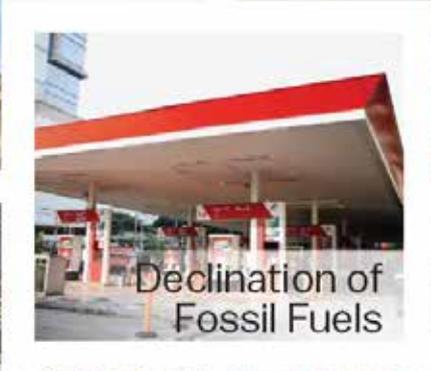
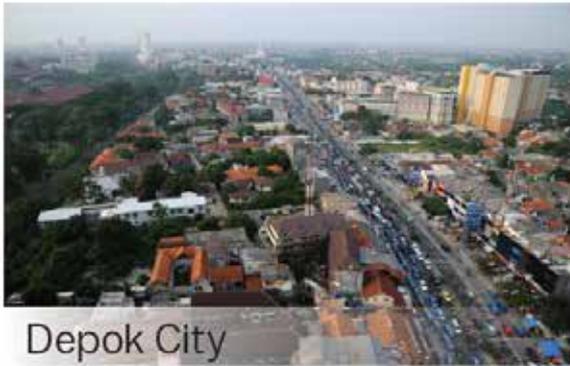
# Misi

- § Mempersiapkan sarjana, magister dan doktor teknik yang berwawasan internasional dengan sistem **Cutting-Edge Engineering Education & Management** yang menjadi tolak ukur sistem pendidikan tinggi di kawasan Asia tenggara.
- § Menyelenggarakan riset untuk pengembangan teknologi dan sains bangsa dengan fokus riset keteknikan berbasis terapan (**Applied Engineering Research**). **Applied Engineering Research** harus merupakan riset yang dapat bersaing di kancah internasional namun bermanfaat bagi masyarakat Indonesia, tanpa mengabaikan riset yang telah menjadi tulang punggung FTUI.
- § Mendorong sistem **Engineering Enterprises** dan pengabdian masyarakat yang profesional dan adaptif terhadap kebutuhan masyarakat dan industri. **Engineering Enterprises** harus berperan aktif dalam memecahkan tuntutan global dengan dukungan terhadap pembangunan yang berkelanjutan dan humanis.
- § Membangun dan mempersiapkan institusi keteknikan yang berbasis Teknologi Informasi Terpadu (**Integrated IT Based Institution**) dengan tuntutan efisiensi dan profesionalitas yang menjadi *benchmark* secara nasional. **Integrated IT Based Institution** harus mampu mengikuti perkembangan FTUI maupun perkembangan teknologi di masa datang.

# 4 Pilar Strategi Pencapaian Visi Misi



# Motivasi Riset dan Pengabdian Masyarakat FTUI

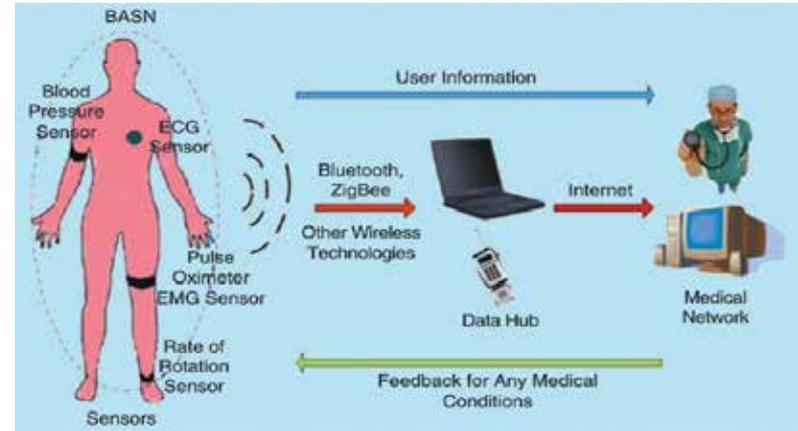


## Fokus Riset dan Pengmas

“INTEGRATED DESIGN IN URBAN SMART ECO-TECHNOLOGY BASED ON INDIGENOUS KNOWLEDGE TOWARDS INNOVATIVE PRODUCTS FOR SUSTAINABLE HUMAN LIFE AND ENVIRONMENT”

# Area Riset dan Pengmas

- *New & Renewable Energy*
- *Urban Planning & Transportation*
- *Clean Water and & Food Resilience*
- *Waste treatment & Environment Conservation*
- *Health and Biomedical Applications*
- *Maritime*





## DEPARTEMEN TEKNIK SIPIL

- Teknik Sipil
- Teknik Lingkungan

# Fokus Riset dan Pengmas

*"GREEN INFRASTRUCTURE BY DESIGN"*



- *Structure Engineering*
- *Water Engineering*
- *Transportation Engineering*
- *Geotechnical Engineering*
- *Project Management and Value Engineering*
- *Environmental Engineering*



## DEPARTEMEN TEKNIK MESIN

- Teknik Mesin
- Teknik Perkapalan

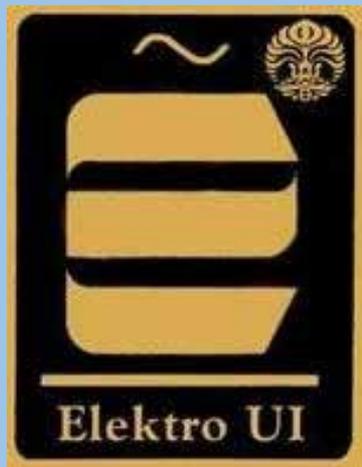


# Fokus Riset dan Pengmas

*“Energy through Conservation Efficient Design & Manufacturing”*

- *Advanced Manufacturing Technology and Automation*
- *Thermal and Fire Safety Engineering*
- *Advanced Refrigeration System and Technology*
- *High Efficiency Fluid Engineering*
- *Advanced Heat Transfer Engineering*
- *Naval Architecture and Marine Engineering*





# DEPARTEMEN TEKNIK ELEKTRO

- Teknik Elektro
- Teknik Komputer
- Teknik Biomedik



# Fokus Riset dan Pengmas

## “Renewable Energy, Electronics & ICT for Urban Communities ”



- Ø *Power and Renewable Energy*
- Ø *Sensor and Electronic Devices*
- Ø *Multimedia and Network*
- Ø *Digital Signal Processing*
- Ø *Propagation and Microwave Antenna*
- Ø *Mobile Communication*
- Ø *Real Time Measurement and Control*





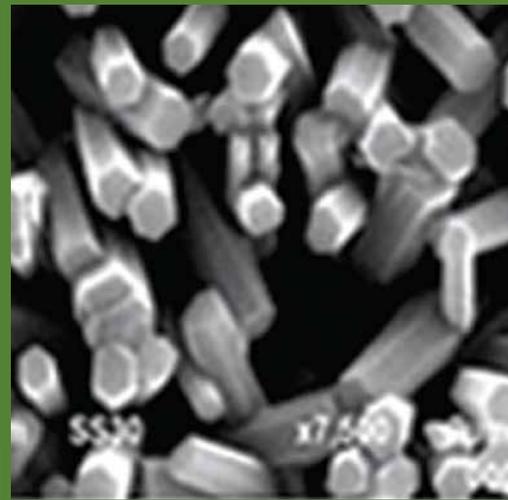
DEPARTEMEN  
**TEKNIK METALURGI DAN  
MATERIAL**

- Teknik Metalurgi dan Material

# Fokus Riset dan Pengmas

## *“Eco-Based Materials Design and Process ”*

- ü *Advanced Material*
- ü *Material Chemistry and Corrosion Protection*
- ü *Material Manufacture*





# DEPARTEMEN ARSITEKTUR

- Arsitektur
- Arsitektur Interior

# Fokus Riset dan Pengmas

## “Eco Architecture”

- ü *Ethno Architecture*
- ü *Building Science and Technology*
- ü *Architectural History and Theory*



# DEPARTEMEN TEKNIK KIMIA



- Teknik Kimia
- Teknologi Bioproses



# Fokus Riset dan Pengmas

“Sustainable Chemical & Bioprocess Engineering  
for Energy & Product Development”



- Ø Chemical and Natural Production
- Ø Sustainable Energy Technology
- Ø Industrial Bioprocess Engineering
- Ø Process Intensification





# DEPARTEMEN TEKNIK INDUSTRI

- Teknik Industri

# Fokus Riset dan Pengmas

**“Designing Sustainable Service for Increasing Our Urban Communities Quality of Life”**

- Applied Ergonomics and Work Systems
- Logistics & Supply Chain
- Lean Manufacturing
- Modelling & Simulation
- Systems Engineering
- Operations Research
- Quality & Reliability Engineering
- Sustainable Development
- Computer & Information Systems
- Energy Systems
- Health Systems
- Innovation and Systems Design



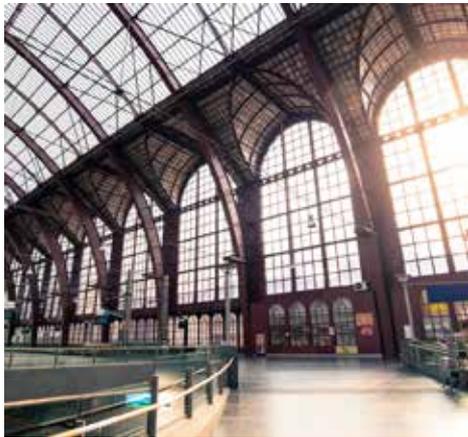
# RESEARCH CENTERS

- Center for Sustainable Infrastructure Development
- Tropical Renewable Energy Center
- Research Center for Biomedical Engineering
- Research Center for Advanced Vehicle



# Center for Sustainable Infrastructure Development

- Finance and Asset Management Cluster
- Sustainable Mobility Cluster
- Sustainable Water Management Cluster
- Sustainable Energy Cluster



# Tropical Renewable Energy Center

*Pusat Riset Energi Terbarukan Wilayah Tropis*



- Energy Storage
- Biomass and Gasification
- Environment Protection
- Renewable Energy System Engineering
  - Power Electronic and Control
  - Nanostructure Energy Material
- Solar Thermal Cooling and Refrigeratory

- ü Wireless Medical System Research
- ü Indonesian Indigenous Herbs Process and Product Development
- ü Development of Implants
- ü Engineering Multi Material Scaffold for Medical application
- ü Fabrication of Degradable Metallic Materials for Implant and Other application



# Research Center for Advanced Vehicle (RCAVe - MOLINA-UI)

1. Vehicle Mechanical and Driving System
2. Vehicle Thermal Management System
3. Vehicle Electric Motor System
4. Vehicle Intelligent System
5. Vehicle Charging System
6. Vehicle Battery System
7. Vehicle Social Study

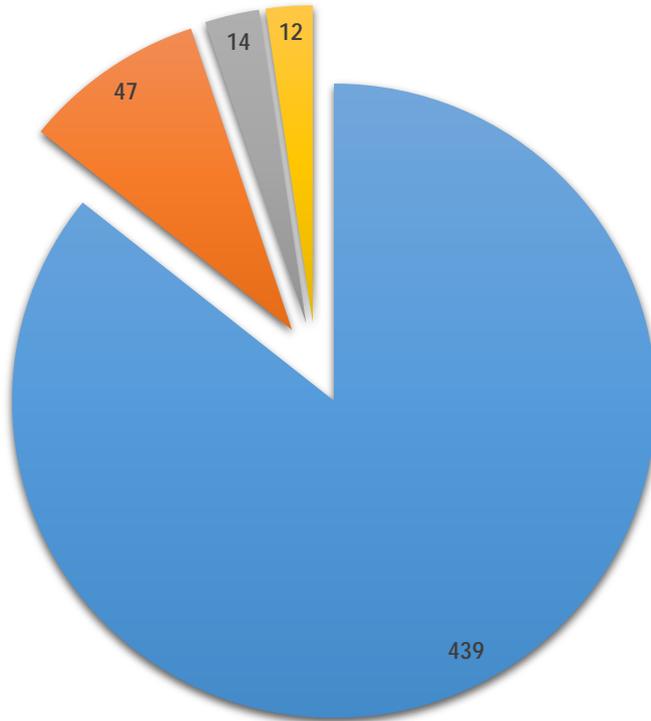


# Conference, Seminar, and Symposium

- Quality in Research (QiR), Biannually.
- International Engineering Student Conference (IESC), annually.
- International Tropical Renewable Energy Conference (I-TREC), annually.
- International Symposium on Biomedical Engineering (ISBE), annually.
- Seminar Series, Monthly.



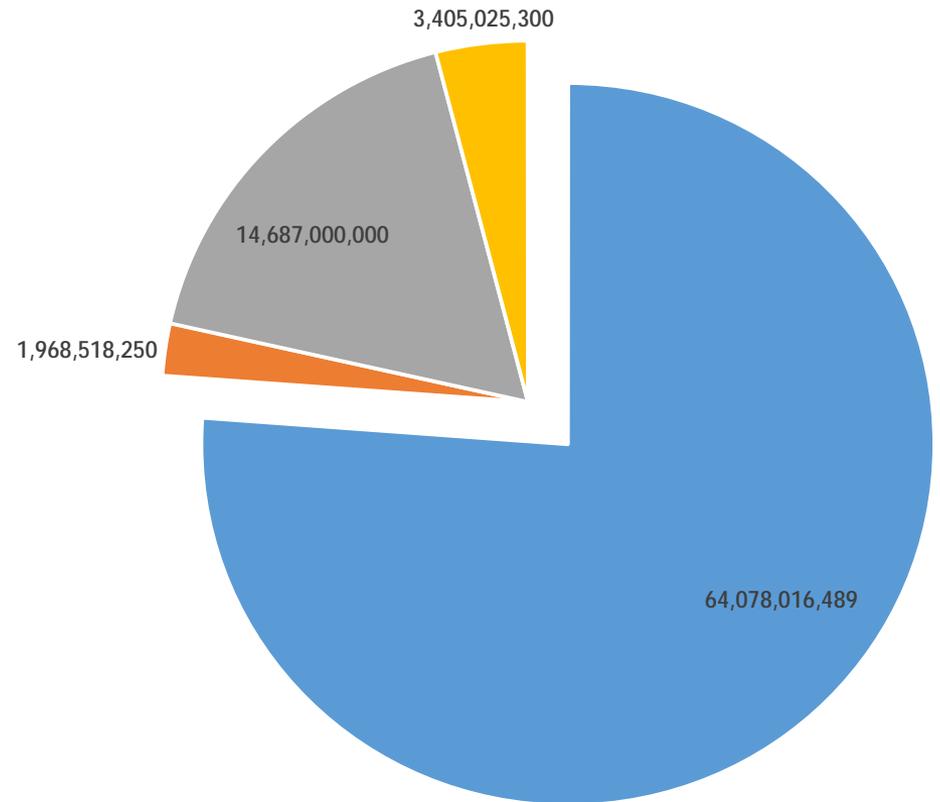
Jumlah Kegiatan



■ Penelitian ■ Pengabdian Masyarakat ■ Inovasi ■ Inkubator Bisnis

**Total 513 kegiatan**

Nilai Kegiatan (dalam Rupiah)



■ Penelitian ■ Pengabdian Masyarakat ■ Inovasi ■ Inkubator Bisnis

**Total Rp. 84.383.735.039**

# Research Output (sumber: <https://scholar.ui.ac.id/>) data per 18 Agustus 2019



## Research Output

1985 ..... 2020

17131

Citations

53

h-Index

1546

Article

1518

Conference contribution

890

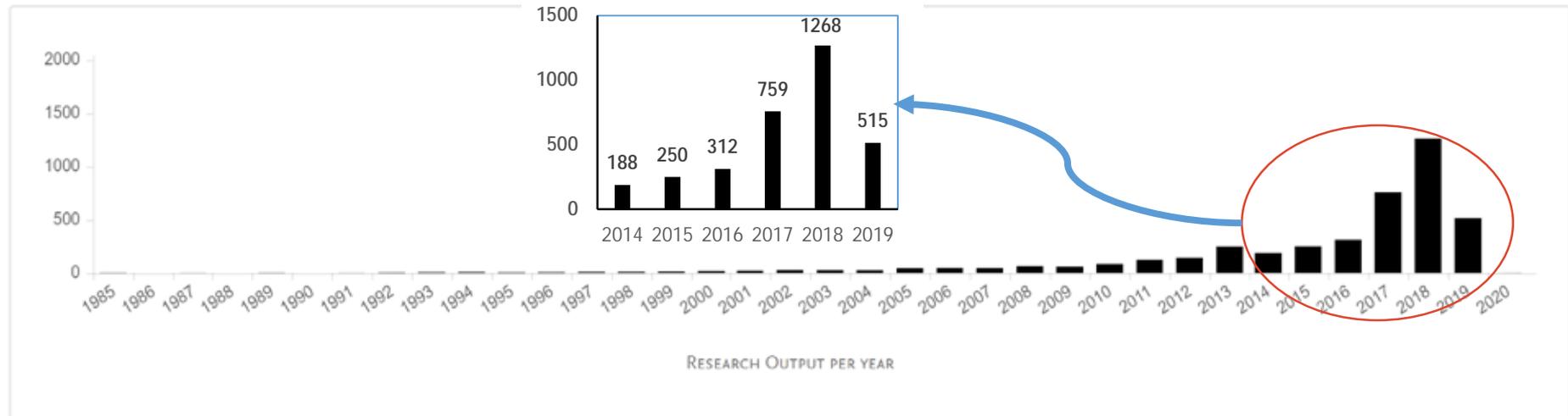
Conference article

163

Paper

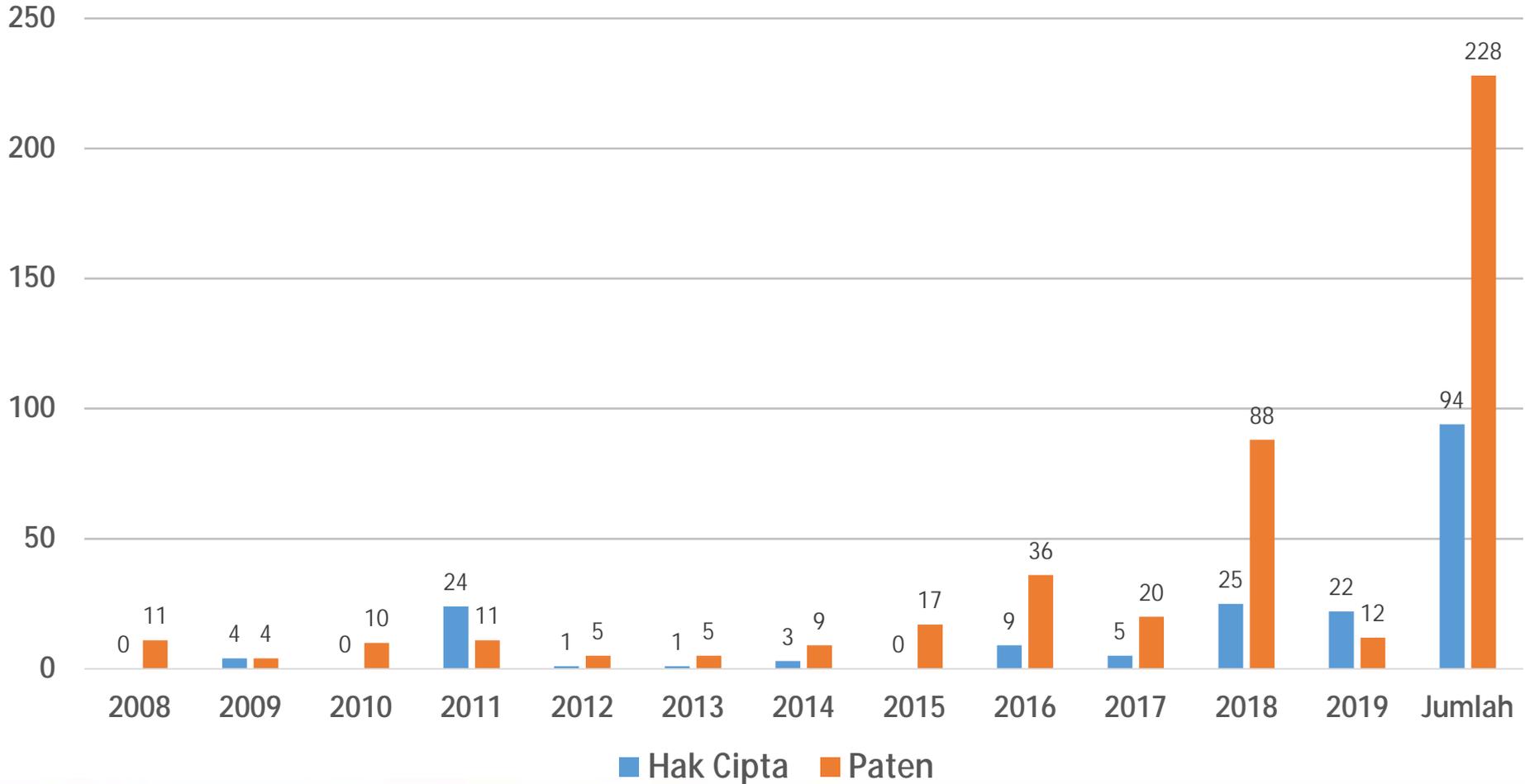
235

More



# Data Hak Kekayaan Fakultas Teknik Tahun 2008 - 2019

Jumlah HKI Fakultas Teknik 2008 - 2019





# Community Services



## ENERGY-SAVE INFANT INCUBATOR

Prof. Dr. Ir. Raldi Artono Koestoer, DEA.

An infant incubator is used to keep babies born before they should be to stay alive. They are normally used in a neonatal intensive care unit. This baby incubator invented by Prof. Raldi has a temperature control, portable, and requires only 250 watts of energy to control the temperature. This infant incubator has been lent freely by the poor, hospitals, and local communities.



## MOTORCYCLE COOL-BOX

Dr. Imansyah Ibnu Hakim, M.Eng.

A motorcycle cool-box is a cooler used to keep food or drink cool during transportation by using a motorcycle. This cool-box invented by Dr. Hakim is a development of motorcycle cool-box based on thermoelectric cooling system. The temperature can reach 10oC without using Freon making it environmentally friendly.



# Community Services



## PORTABLE VACCINE COOLER

Prof. Dr-Ing. Nandy Putra

This portable vaccine cooler invented by Prof. Nandy uses Thermoelectric Heat Pipe system capable of maintaining the temperature of the vaccine in their environment and protect the vaccine from the sun so as to minimize failure and damage that may occur during the distribution of vaccine especially in remote areas. Another advantage of this tools is that it is environmentally friendly (this tool does not use CFCs) and energy efficient (30 watt battery source)



## SILICON CARBIDE REINFORCED ALUMINUM MATRIX COMPOSITES FOR ARMOR MATERIAL

Prof. Dr. Ir. Bondan T. Sofyan, M.Si.

In general, combat vehicle is usually covered with a protective mantle from hardened steel, yet this material is thick and heavy and thus reducing vehicle mobility and makes the vehicle as fuel-improvident. This research focuses on alternative materials for composite armour panels by using silicon carbide reinforced aluminium matrix composite, which is lighter but has the same strength as the steel does (with the capability to withstand 9 mm and 7.62 mm bullets)



# Community Services



## TALIS (TABUNG LISTRIK)

Ir. Chairul Hudaya, ST, M.Eng., Ph.D., IPM

TaLis has been designed to be a solution of electricity supply problem at underdevelopment regions. In the concept of TaLis, the energy for electronic usage is stored in battery. Therefore, the electricity requirement will not only depends on long-range transmission systems from giant power plant sources. One unit of TaLis can fulfill the electricity needs for 1 house in underdevelopment regions. TaLis is light weighted and has portable design. TaLis can stored Lithium-ion based electricity energy up to 630 Wh. In addition, TaLis has a cheaper price because it does not need kWh meter and power distribution network.



## Renewable Energy Education for Kids

In order to promote the basic concept of science to the community, the students from Nano Research Society at the Department of Metallurgical and Materials Engineering and the researcher from Tropical Renewable Energy Center (TREC) are introducing the basic concepts of dye-sensitized solar cells based on natural dyes found in plants to the under fifth grade students during Science Project event at the School of Universe (SoU), Parung, Bogor, on April 18, 2015 and 9 April 2016. With the introduction of this basic concept of science to these enthusiastic students, it is expected that this will motivate their future interest in nature-based scientific approach, according to how they are encouraged to learn the natural phenomena around them at the school.





# Community Services



## INDONESIA INDIGENEOUS PROPOLIS

Dr. Eng. Muhammad Sahlan, S.Si.,M.Eng.

Propolis is a resinous mixture that usually honey bees collect from tree buds, sap flows, or other botanical sources. This propolis developed by Dr. Sahlan contained Indonesian indigenous herbal material. It can be useful for antibiotics, herbs, as well as materials in liquid pharmaceutical preparations, candy, or powders. The advantage of this propolis is that it contains only active ingredient/pure flavonoids in which the wax has been removed.



## WIND TURBINE

Prof. Dr. Ir Adi Surjosatyo, M.Eng.

Wind turbine Universitas Indonesia is a team engaged in the utilization of renewable energy technologies, especially wind energy. The purpose of the establishment of this team is to answer the need for the development of green technology that can be utilized and suitable for the community. In part, this wind turbine for the community engagement has been implemented at Kampong Bungin, Muara Gembong, Bekasi. Empowering the community in Kampong Bungin included product branding (fisheries), clean water system (distillation), and improvement of product quality values of the local residents (fishery processing).







# Literasi Informasi FT UI



**Sony Pawoko , M.T.I**



# Perpustakaan Universitas Indonesia [www.lib.ui.ac.id](http://www.lib.ui.ac.id)

Layanan Pencegahan Plagiarisme

Layanan Rujukan

Layanan Ruang belajar Khusus Mahasiswa S3

Layanan Ruang Baca Khusus Dosen dan Pascasarjana

Layanan Komputer

Layanan Galeri Karya Siva UI & Koleksi Tematis

Layanan KATM

Layanan UIANA Digital Program

Layana Pengunjung Luar

Layanan Peminjaman-pengembalian Koleksi

Layanan Peminjaman Mandiri

Layana Akses remote-  
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Daya  
Pengetahu  
an



Sarana  
pendidikan  
dan  
pembelajara  
n



Mendukung  
riset dan  
pengabdian  
masyarakat  
sivitas  
akademika UI



Repositori  
produk  
intelektual  
siva UI



*Life skill  
dan  
Rekreasi  
(read and  
act)*

## KTM dan Kartu Pegawai berfungsi sebagai:

- § kartu anggota Perpustakaan
- § kartu untuk meminjam buku
- § kartu untuk tap di gate masuk perpustakaan
- § kartu untuk masuk ke ruang Komputer



Dosen dan mahasiswa dapat meminjam buku **maksimal 10 eksemplar**, sedangkan Tenaga kependidikan (staf) maksimal 05 eksemplar, untuk masa **pinjam dua minggu**, dan buku dapat diperpanjang masa pinjamnya sebanyak **2 x 2 minggu**.



Perpanjangan masa pinjam buku dapat dilakukan dengan mengirim email ke [cirdesk.lib@ui.ac.id](mailto:cirdesk.lib@ui.ac.id) minimal sehari sebelum tanggal pengembalian.

Keterlambatan pengembalian buku pinjaman dikenakan sanksi.

Jika buku hilang, segera lapor ke petugas di bagian Sirkulasi.



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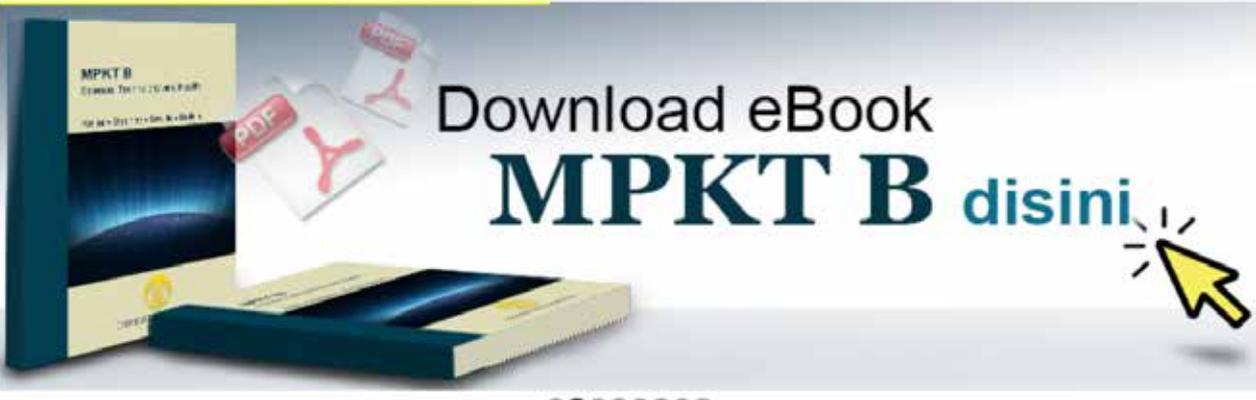
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Tamu

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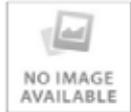


Bambang Prabowo Soedarso, author;

[Analisis mengenai dampak lingkungan \(dokumen ilmiah, dokumen hukum dan piranti pengelolaan lingkungan\)](#)

2003

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Soeharsono, author;

[Respon brollier terhadap berbagai kondisi lingkungan](#)

1977

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Mediana Johanna Hendriette Uguy, author;

[Pengembangan lingkungan peri-urban yang menuju keberlanjutan](#)

2006

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Lucia Hilman, author;

[Tema lingkungan hidup dalam sajak Jerman tahun tujuh puluhan](#)

1996

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Judul [Analisis mengenai dampak lingkungan \(dokumen ilmiah, dokumen piranti pengelolaan lingkungan\)](#)

Nomor Panggil [D693](#)

Pengarang [Bambang Prabowo Soedarso, author](#)

Pengarang/kontributor [Koesnadi Hardjosoemantri, promotor](#)[Silalahi, Daud, co-promotor](#)

lain [Radjagukguk, Erman, examiner](#)

[Kriekhoff, Valerine Jaqueline Leanore, examiner](#)

[Bhenyamin Hoessein, examiner](#)

[Hikmahanto Juwana, examiner](#)

[Jufrina Rizal, examiner](#)

[Universitas Indonesia. Fakultas Hukum](#)

Subjek [Environmental impact analysis](#)

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## Info Lainnya

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Bera



UNIVERSITAS INDONESIA

ANALISIS MENGENAI DAMPAK LINGKUNGAN  
(DOKUMEN ILMIAH, DOKUMEN HUKUM DAN  
PIRANTI PENGELOLAAN LINGKUNGAN)

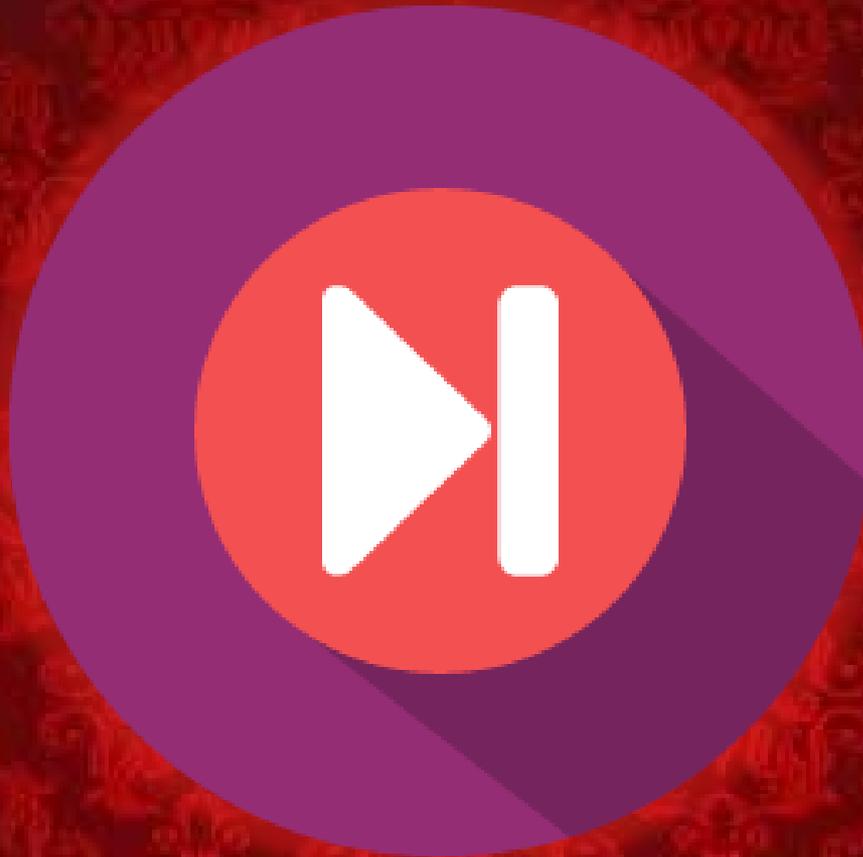
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BAMBANG PRABOWO SOEDARSO  
NPM. 8598000388

Untuk memperoleh gelar Doktor dalam Ilmu Hukum pada Fakultas Hukum  
UI di bawah pimpinan Dekan Fakultas Hukum Prof. Abdul Bari Azed,SH,MH.  
Yang dipertahankan di hadapan Senat Guru Besar Fakultas Hukum  
Universitas Indonesia pada hari Selasa tanggal 28 Oktober 2003 kul 12.30 WIB  
Di Balai Sidang Djokosoetono Gedung Pringgogido Fakultas Hukum  
Universitas Indonesia Depok

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00693

PROGRAM PASCASARJANA



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Perpustakaan UI**

# Sumber Informasi Digital dilanggan Perpustakaan

## Online Database Jurnal

Proquest

Ebsco

Annual  
Review

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Direct

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Springer

Sage

Lexis Nexis

West Law

Kluwer  
Abritration

Clinical  
Key

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Dentistry, Medline,  
Dynamed)

Micromedex  
(Farmasi)

IEEE

ACM

American Physical  
Society (APS)

American  
Institute of  
Physic (AIP)

Society for Industrial  
and Applied  
Mathematics (SIAM)

American Society  
of Mechanical  
Engineers (ASME)

American  
Chemical  
Society (ACS)

Royal Society of  
Chemistry (RSC)

American Society  
of Civil Engineering  
(ASCE)

Institute of  
Physics (IOP)

## Ebook

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Clinical  
Key

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Disertasi

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Proques  
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Aksesibilitas &  
Research Tool

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Scopus

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# Akses Masuk Lingkungan UI Lib.ui.ac.id

- ### Koleksi
- [UI Documentation & Archive](#)
  - [UI Scholarly Journals](#)
  - [UI Open Access Journals](#)
  - [UI Video Online](#)



### Sumberdaya Elektronik

- [Summon Discovery Search](#)
- [Online Database List](#)
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- [Alexander Street Video](#)

### E-Books

- [Oxford](#)
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- [Wiley](#)
- [Emerald](#)

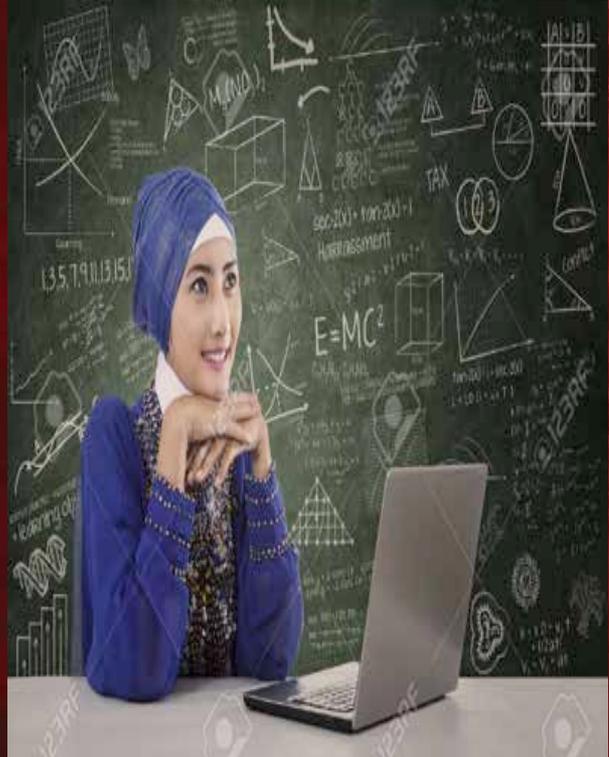
- ### Research Tools
- [Scopus](#)
  - [Turnitin - Aplikasi Uji Kemiripan Dokumen](#)
  - [Scival](#)
  - [Remote Access to Online Databases](#)
  - [Pivot](#)
  - [Research Companion](#)
  - [Mendeley](#)
  - [Zotero](#)
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Akses dari luar jaringan UI

<http://remote-lib.ui.ac.id>

Akses *e-resources* dengan login SSO dari rumah atau kantor.



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### e-Resources

- ACM Digital Library
- Alexander Street Press
- American Chemical Society
- American Library Association (ALA) - Ebooks
- American Physical Society (APS)
- American Society of Civil Engineers
- American Society of Mechanical Engineers (ASME)
- Annual Reviews
- ClinicalKey
- Ebrary
- EBSCOhost
- Emerald Insight
- IEEE Xplore

### e-Resources

- Micromedex
- Oxford Journals (New Platform Fall 2016)
- ProQuest
- Royal Society of Chemistry
- Sage Publications
- ScienceDirect
- SciVal
- Scopus
- SpringerLink
- Taylor & Francis (Social Sciences & Humanities Subject)
- Westlaw
- Wiley Online (Medicine, Nursing, Dentistry & Health Care)
- Cambridge Core

Akses ke database Perpustakaan UI, otomatis dapat dilakukan baik dari dalam jaringan maupun dari luar jaringan. Cara mengenali bahwa kita berada dalam jaringan UI adalah **jika muncul SSO**



**SSO**  
Single Sign On

 **UNIVERSITAS INDONESIA**  
*Veritas, Probitas, Justitia | Est. 1849*

Masukkan username dan password UI Anda/  
*Enter your username and password:*

Username

Password

[Daftar Akun](#)  
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# Full Teks artikel

The image displays two browser windows. The left window shows the ScienceDirect page for the article "Effects of coping designs on stress distributions in zirconia crowns: Finite element analysis" by Ha, S.-R., Kim, S.-H., Lee, J.-B., Yeo, I.-S., and Yoo, S.-H. The right window shows the Scopus search results for the same query, with 27,410 document results. A blue arrow points from the Scopus search results to the full text of the article in the ScienceDirect window.

**ScienceDirect Article:**

**Effects of coping designs on stress distributions in zirconia crowns: Finite element analysis**

Seung-Ryong Ha<sup>1</sup>, Sang-Han Kim<sup>1</sup>, Jae-Bong Lee<sup>1</sup>, Jung-Suk Han<sup>1</sup>, In-Sang Yeo<sup>1</sup>, Seung-Hyun Yoo<sup>1</sup>

00:10.1016/j.ceramint.2015.12.007

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**Abstract**

The purpose of this study was to evaluate the effects of coping designs on the stress distributions in posterior zirconia crowns by non-linear three-dimensional finite element analysis. Three-dimensional finite element models of a mandibular right first molar with layers of veneering porcelain, zirconia coping, cement, and abutment tooth were designed by computer software (HyperWorks 10.0). Ten zirconia crowns with different designs were produced according to various shoulder positions and heights. The shoulders (1-mm width) exhibited incremental height increases of 1 mm, 2 mm, and 3 mm on the buccal, lingual, and proximal sides, respectively. An axial compressive dynamic load simulating the progressive load was applied until a stainless steel ball model (7 mm in diameter) deepened the veneer surface to 0.7 mm in depth. Loads were placed on the inner inclines of the mesiobuccal, distobuccal, and mesiolingual cusps. Residual maximum principal stresses (MPSs) at the veneer and coping under progressive loading were determined for each zirconia crown. Reinforcements with the shoulders on the buccal, lingual, and proximal axial walls resulted in lower MPSs in the veneering porcelain but higher MPSs in the zirconia coping. As the shoulder height increased, the tensile stresses decreased, while the compressive stresses increased in the veneering porcelains. It can be concluded that the shoulder height and position in the

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Year

- 2016 (1,136)
- 2015 (1,810)
- 2014 (1,887)
- 2013 (1,824)
- 2012 (1,813)

Author Name

- Cooper, C.L. (63)
- Moos, R.H. (55)
- Bodenmann, G. (55)
- Campos, B.E. (52)
- Kucharski, J.M. (48)

Subject Area

- Medicine (2,537)
- Psychology (3,475)
- Social Sciences (3,836)
- Nursing (2,559)
- Neuroscience (2,407)

Document Type

- Article (21,233)

1 Multifaceted emotion regulation, stress and affect in mothers of young children Deater-Deckard, K. U. M., Bell, M.A. 2016 Cognition and Emotion

2 Advancing acculturation theory and research: The acculturation process in its ecological context Ward, C., Geeraert, N. 2016 Current Opinion in Psychology

3 Anxiety symptom interpretation: A potential mechanism explaining the cardiorespiratory fitness-anxiety relationship Williams, S.E., Carroll, D., Velthuisen Van Zanten, J.J.C.S., Giny, A.T. 2016 Journal of Affective Disorders 193, pp. 151-156

4 Retrospective coping strategies during sexual identity formation and current biopsychosocial stress Juster, R.-P., Ducloux, É., Lefebvre-Louis, J.-P., (...) Smith, N.G., Lupien, S.J. 2016 Anxiety, Stress and Coping

5 Trauma in the childhood stories of people who have injected drugs Hammerness, R., Daigami, P., McCullum, S. (...), Thompson, A., Liddell, D. 2016 Addiction Research and Theory

6 Effects of coping designs on stress distributions in zirconia crowns: Finite element analysis Ha, S.-R., Kim, S.-H., Lee, J.-B., Yeo, I.-S., Yoo, S.-H. 2016 Ceramics International

7 Influence of soundscape and interior design on anxiety and perceived tranquility of patients in a healthcare setting Watts, G., Khan, A., Pheasant, R. 2016 Applied Acoustics

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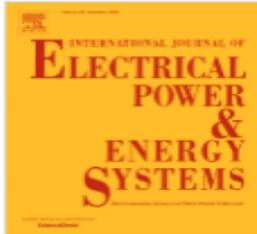
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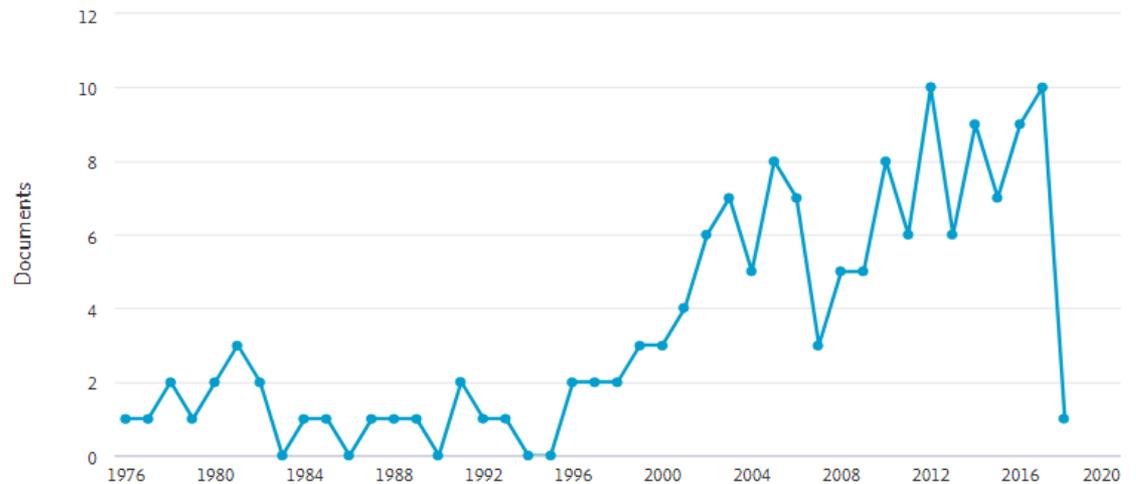
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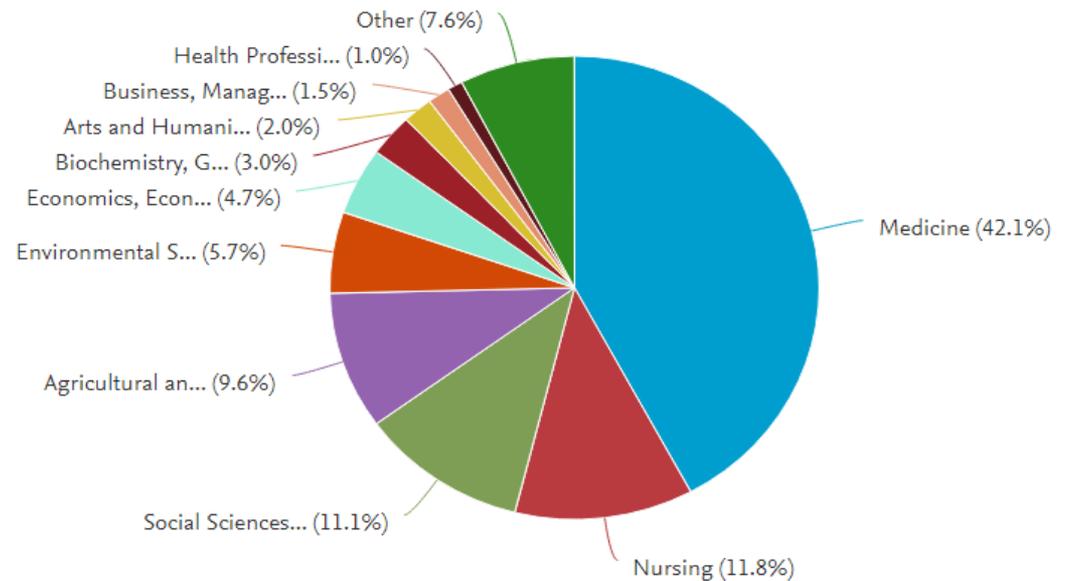
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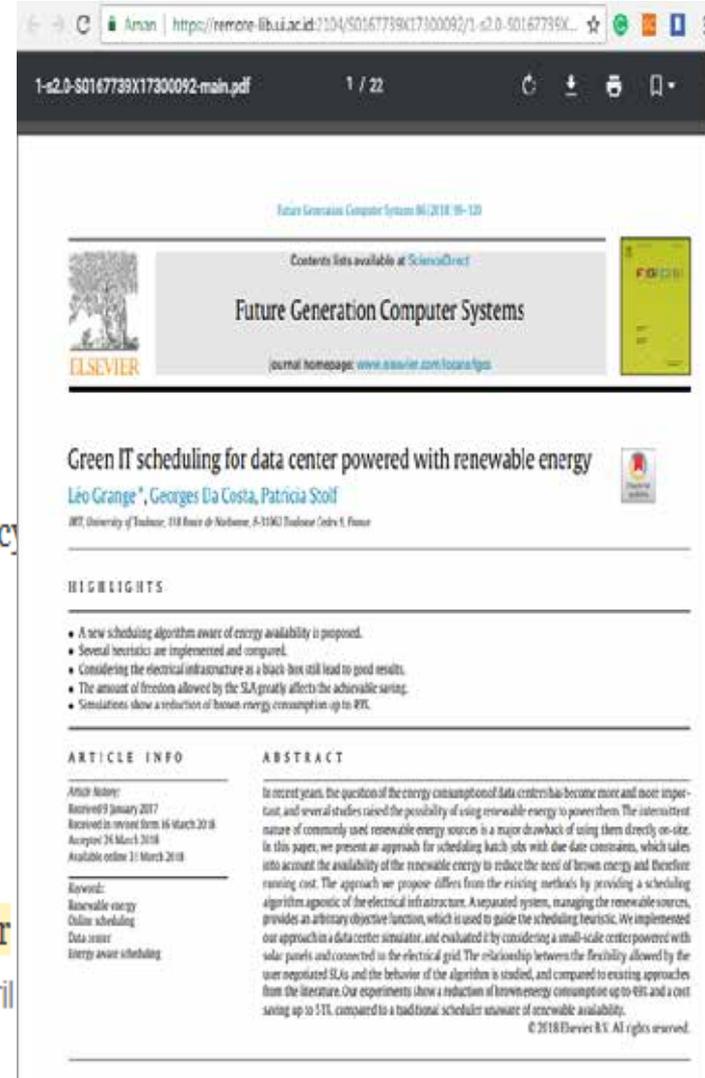
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Renewable and Sustainable Energy Reviews, Volume 92, September 2018, Pages 426-439  
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Future Generation Computer Systems

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Green IT scheduling for data center powered with renewable energy

Léo Grange\*, Georges Da Costa, Patricia Stolf

IREM, University of Toulouse, 118 Route de Narbonne, F-31063 Toulouse Cedex 9, France

HIGHLIGHTS

- A new scheduling algorithm aware of energy availability is proposed.
- Several heuristics are implemented and compared.
- Considering the electrical infrastructure as a black box still lead to good results.
- The amount of freedom allowed by the SLA greatly affects the achievable savings.
- Simulations show a reduction of brown energy consumption up to 97%.

ARTICLE INFO

ABSTRACT

In recent years, the question of the energy consumption of data centers has become more and more important and several studies raised the possibility of using renewable energy to power them. The interest in the nature of commonly used renewable energy sources is a major drawback of using them directly on-site. In this paper, we present an approach for scheduling batch jobs with due date constraints, which takes into account the availability of the renewable energy to reduce the need of brown energy and therefore saving cost. The approach we propose differs from the existing methods by providing a scheduling algorithm agnostic of the electrical infrastructure. A separated system, managing the renewable sources, provides an arbitrary objective function, which is used to guide the scheduling heuristic. We implemented our approach in a data center simulator, and evaluated it by considering a small-scale center powered with solar panels and connected to the electrical grid. The relationship between the flexibility allowed by the user negotiated SLAs and the behavior of the algorithm is studied, and compared to existing approaches from the literature. Our experiments show a reduction of brown energy consumption up to 97% and a cost saving up to 17%, compared to a traditional scheduler unaware of renewable availability.

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1. Introduction

Today more than ever, the energy consumption generated by the growing use of information and communication technologies (ICT) is a major issue, from both economical and ecological points of view. The emergence and development of grid computing and suggest higher growth rate in a near future. For the year 2030, the data centers alone may use between 7% (best case) and 11% (worst scenario) of the global electricity production [2].

Because of the current energy consumption of the ICT sector and its growing requirement, the responsibility of big companies in term of greenhouse gas emission and pollution in general is



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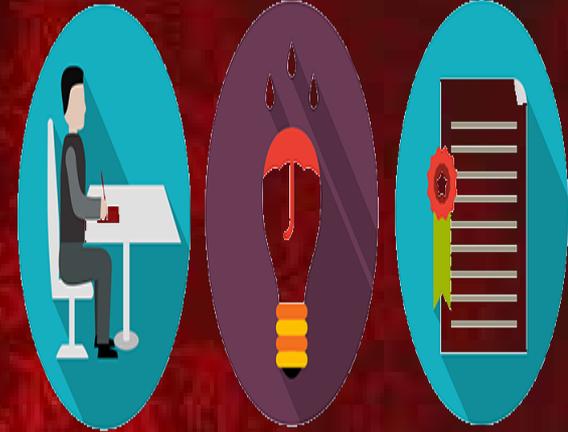
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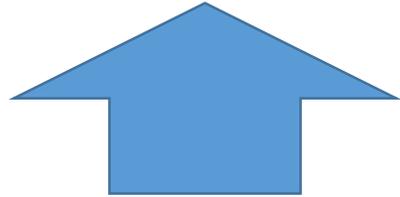
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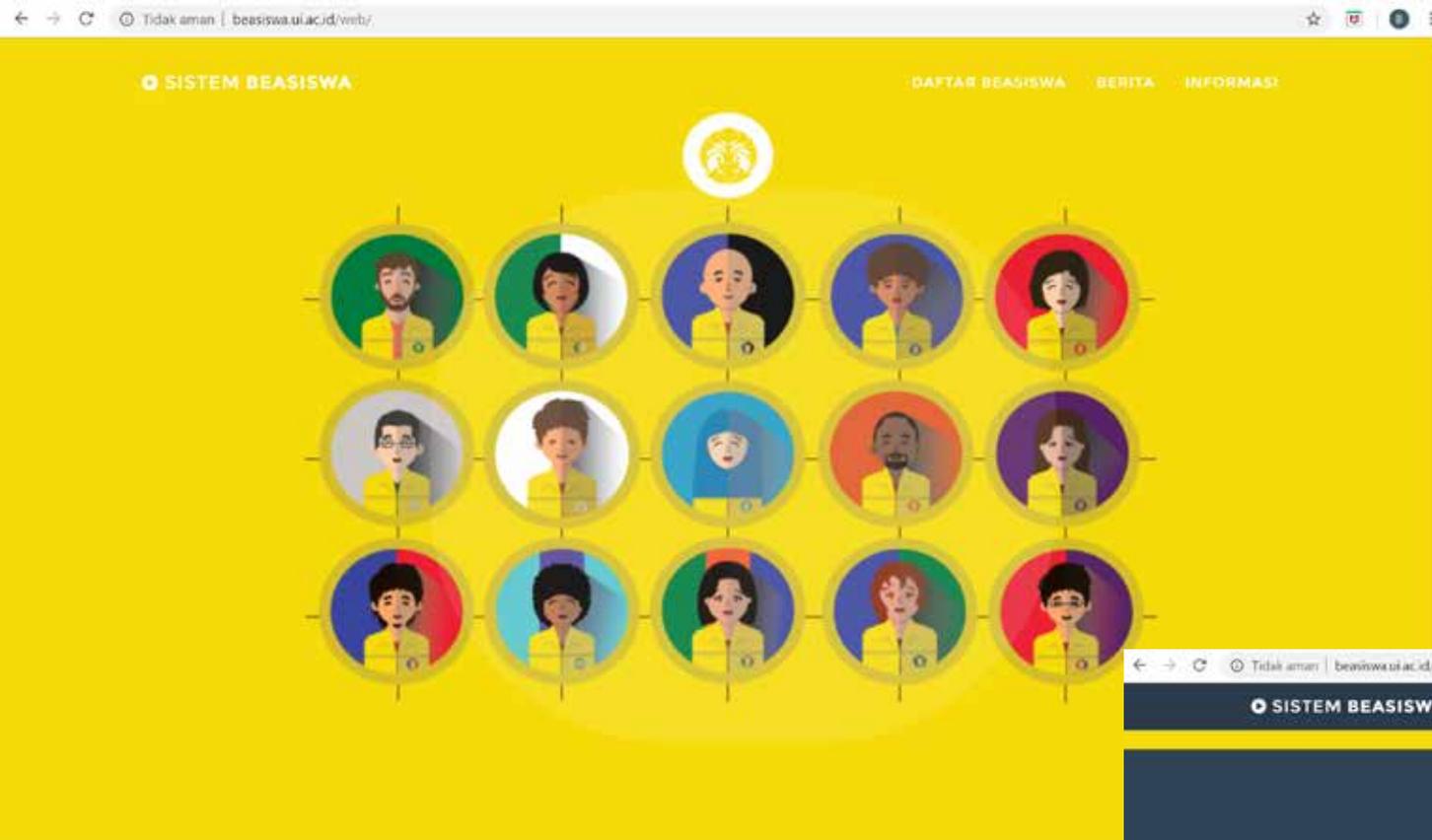
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