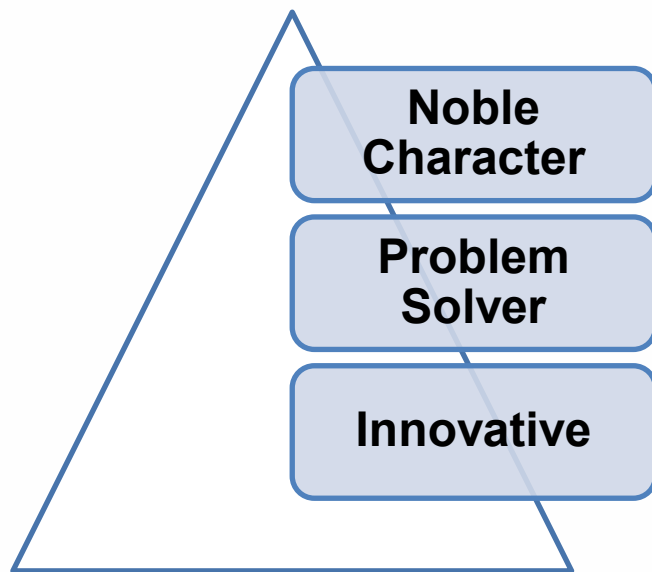


Curriculum of Independent Learning Independent Campus (MBKM)



International Undergraduate Program in Industrial Engineering 2021
<http://industrial.uii.ac.id/ip/>

Graduate's Profile - Program Educational Outcome



To have Islamic Values-Based attitude and behavior

Capable to identify the problems in industrial system and able to provide comprehensive alternative solution

Capable to actualize the insights, imagination and various stimulants in design, installation and integral system improvement

The Role of Graduates – Undergraduate Program

(Position Tracing/First Job Position)

- Production Analyst, Product Engineer, Health Safety and Environment Engineer, Logistic Specialist, Human Capital Analyst, Cost Control Engineer, Maintenance Engineer, Quality Engineer, Marketing and Sales Engineer, Lean-Manufacturing Excellence Engineer, Data and Information Analyst, Assistant Project Manager, Academics, Supply Chain Officer, Entrepreneur, Business Analyst and Consultant.

Learning Outcomes (LO)

The Aspect of Attitude

LO 1 Able to express the attitude of devotion towards One True Almighty God, by applying the sharia in daily life and upholding the universal Islamic ethics (**TAQWA**)

LO 5 To have the Islamic values-based entrepreneurship character (**ENTREPRENEURSHIP**)

The Aspect of Knowledge

LO 2 Able to apply natural, mathematical, and social sciences to acquire a comprehensive engineering-principle understanding (**BASIC SCIENCE & ENGINEERING**)

The Aspect of General Skill

LO 6 Able to identify, formulate problems, design and conduct appropriate experiment, process, analyze and interpret data, and solve engineering problems (**DATA ANALYSIS**)

LO 7 Able to manage teams and organizations and deliver ideas in a global environment (**TEAM WORK**)

LO 8 Becoming an ethical, adaptable, and lifelong-learner professional (**LONG LIFE LEARNING**)

The Aspect of Special Skill

LO 3 Able to design and implement modern engineering tools, methods, and skills to elevate information-technology-based integrated systems performance (**MODERN ENGINEERING TOOLS & INFORMATION TECHNOLOGY**)

LO 4 Able to evaluate integrated system governance particularly in Supply Chain (**SUPPLY CHAIN**)

Draft of Curriculum 2021

Focus of Curriculum: Productivity Improvement in Supply Chain



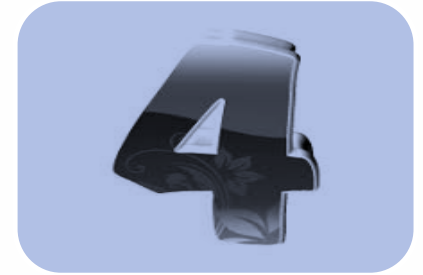
20 credits, 8
courses



20 credits, 9
courses



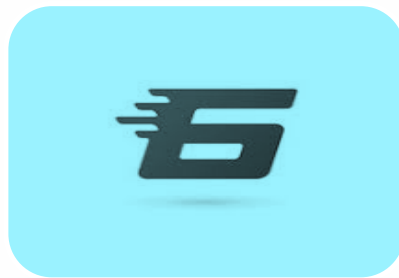
20 credits, 9
courses



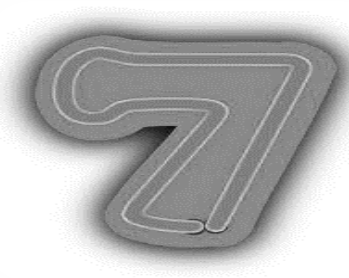
20 credits, 8
courses



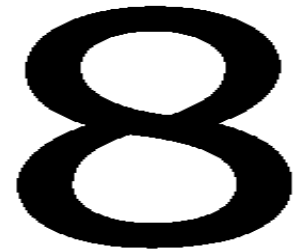
20 credits, 9
courses



20 credits, 7
courses



16 credits, 6
courses



8 credits, 2
courses

Elective Courses

56 types of Elective Courses

56 types of Elective Courses

Field of Interest: Industrial Management

Field of Interest: Operational Research

Field of Interest: Production System

Field of Interest: Ergonomics

4 Elective Courses for Special Topics

4 Elective Courses for Fast Track

2 Elective Courses for Internship Path

1 Elective Course for Business Startup

1 Elective Course for Study/Independent Project

1 Elective Course for Teaching Assistant Program

1 Elective Course for Humanitarian Project

1 Elective Course for Community Development Program

1 Elective Course for Research Program

1 Elective Course for Indonesian Student Mobility Awards

MBKM - Undergraduate Program in Industrial Engineering

<https://kampusmerdeka.kemdikbud.go.id/program>

Recommendation for Completion Schemes

1. Regular/Fast-Track S1-S2
2. Student Exchange/ Double Degree
3. Internship
4. Entrepreneurship/Business Startup: Developing business under the professionals' supervision

MBKM - Undergraduate Program in Industrial Engineering

<https://kampusmerdeka.kemdikbud.go.id/program>

Other available Schemes:

1. Teaching Assistant in Education Unit, to help the Indonesian government in improving the quality of education and establishing equal basic education
2. Research, a research project conducted in a research center laboratory
3. Humanitarian Project, to promote ideas of solutions for social issues
4. Study/Independent Project, to master the cross-department applied science
5. Community Development/Thematic Community Service, to promote ideas of solutions for social issues
6. Indonesian International Student Mobility Awards, to provide students with international mobilities at the best universities in the world

The Student who earns a gold medal in National Student Scientific Week (PIMNAS/*Pekan Ilmiah Mahasiswa Nasional*) or earns first place in international competition in Industrial Engineering, achievement will be converted to 1 relevant elective course.

The student who passes the funding for Students' Creativity Program – Community Service, the program will be converted to Community Service (complying to university's rule).

Scheme of Completion

Regular/Fast-track

Reg (3 EC 9 credits, Internship 3 credits, Undergraduate Thesis 5 credits)

Fast-Track (4 EC mandatory for Master Degree 12 credits, Internship 3 credits, Undergraduate Thesis 5 Credits)

Internship by “Merdeka”

6 months 20 credits

(Undergraduate Thesis 5 credits, Internship 3 credits, EAD 3 credits, 1 EC Industrial System Analysis 9 credits)

3months 11 credits

(Undergraduate Thesis 5 credits, Internship 3 credits, 1 EC Capita Selecta 3 credits)

Bangkit Program 14 credits

(ProLog 3 credits, Intelligent System 2 credits, DBMS 3 credits, Business Intelligent 3 credits, Internship 3 credits)

Technopreneur by “Merdeka”

Business Startup 20 credits

(MK Technopreneurship 9 SKS, APP 3SKS, TA 5 SKS, KP 3 SKS)

Student Exchange /Double Degree

X credits Student Exchange in Partner Universities

Regular

- Regular
 - 3 Elective Courses for a total of 9 credits,
 - 3-credit Internship,
 - 5-credit Undergraduate Thesis 5)

Fast Track S1-S2 Program

- Fast-Track :
 - 4 Elective compulsory courses of Master Degree for a total of 12 credits,
 - 3-credit Internship
 - 5-credit Undergraduate Thesis

Apprenticeship / Internship

The 3-month apprenticeship program is equivalent to 11 credits :

- 5-credit Undergraduate Thesis,
- 3-credit Internship,
- 3-credit Elective Course called Capita Selecta

Apprenticeship / Internship (2)

The 6-month apprenticeship program is equivalent to 20 credits :

- 5-credit Undergraduate Thesis,
- 3-credit Internship, 3-credit Enterprise Analysis and Design (EAD)
- 9-credit Industrial System Analysis as an Elective Course

Apprenticeship / Internship (3)

Bangkit Program is equivalent to 14 credits :

- 3-credit Programming Logic
- 2-credit Intelligent Systems
- 3-credit Database Management Systems
- 3-credit Business Intelligence
- 3-credit Internship

Entrepreneurship

The Business Startup program is equivalent to 20 credits :

- 9-credit Technopreneurship,
- 3-credit Enterprise Analysis and Design (EAD),
- 5-credit Undergraduate Thesis
- 3-credit Internship

Student Exchange/ International Credit Transfer (ICT)

- The program is held in 6 months.
- The courses enrolled can be converted to equivalent courses as a whole or partial conversion.
- The inequivalent enrolled courses can be converted to the following courses as a whole of 20 credits or just partial credits.

Student Exchange (2)

- The inequivalent enrolled courses can be converted to the following courses as a whole of 20 credits or just partial ones.
 - The Elective Course in Indonesian International Student Mobility Awards for a maximum of 12 credits (as additional credits to 144 credits of undergraduate program completion),
 - Civic Education for 2 credits,
 - Pancasila for 2 credits,
 - Scientific Writing for 2 credits,
 - English for 2 credits.

Double Degree Program

- Based on MoU and MoA

Other available Schemes

Teaching Assistant
in Education Unit

6 month 20 crd (Elective in teaching assistant **12 credit excluded from the completion requirement of 144 credits**, Community Service 2 crd, Civic 2crd, Pancasila 2crd, Scientific Wrt 2crd)

Research

6 month 20 crd (Elective in research **8 credit excluded from the completion requirement of 144 crd**, 3 credits of internship with an assigned supervisor, 9 credits of Elective Course)

Humanitarian
Project
(Voluntary)

6 month 20 crd (Elective in humanitarian project **12 credit excluded from the completion requirement of 144 crd**, Com Service for 2 crd, Civic 2 crd, Pancasila 2 crd, Scientific Writing 2 crd)

Independent
Study/ Project

6 months 20 crd (Elective in Study/Independent **Project 9 crd excluded from the completion requirement of 144 crd**), 9 crd of the Elective ruled by the program, Scientific Wr 2 crd

Rural Development/
Thematic
Community Service

6 months 20 crd (Elective Course in Community Development **12 crd excluded from the completion requirement of 144 crd** Community Serv 2 crd, Civic Education 2 crd, Pancasila 2 crd Scientific 2 crd)

Indonesian
International
Student Mobility
Awards

6 months 20 crd (Elective Course in Indonesian International Student Mobility Awards **12 crd excluded from the completion requirement of 144 crd** Civic Education 2 crd, Pancasila 2 crd, Scientific 2 crd, English 2 crd)

Teaching Assistanship (Teaching Campus)

The 6-month Teaching Assistant Program is equivalent to 20 credits :

- 12-credit Teaching Assistant Elective Course as additional credits to 144 credits of undergraduate program completion,
- 2-credit Community Service,
- 2-credit Civic Education,
- 2-credit Pancasila,
- 2-credit Scientific Writing

Research

The 6-month Research Program is equivalent to 20 credits :

- 8-credit Elective Course in Research as additional credits to 144 credits of undergraduate program completion,
- 3-credit Internship with an assigned supervisor,
- 9-credit of Elective Courses

Humanitarian Project

The 6-month Humanitarian Project is equivalent to 20 credits :

- 12-credit Elective Course in the humanitarian project as additional credits to 144 credits of undergraduate program completion,
- 2-credit Community Service
- 2-credit Civic Education
- 2-credit Pancasila
- 2-credit Scientific Writing

Independent Study/Project

The 6-month Independent Study/Project is equivalent to 20 credits :

- 9-credit Elective Course in independent Study/Project as additional credits to 144 credits of undergraduate program completion,
- 9-credit Elective Course based on the content of the independent Study/Project
- 2-credit Scientific Writing

Rural Development / Thematic Community Service

The 6-month Rural Development/Thematic Community Services equivalent to 20 credits :

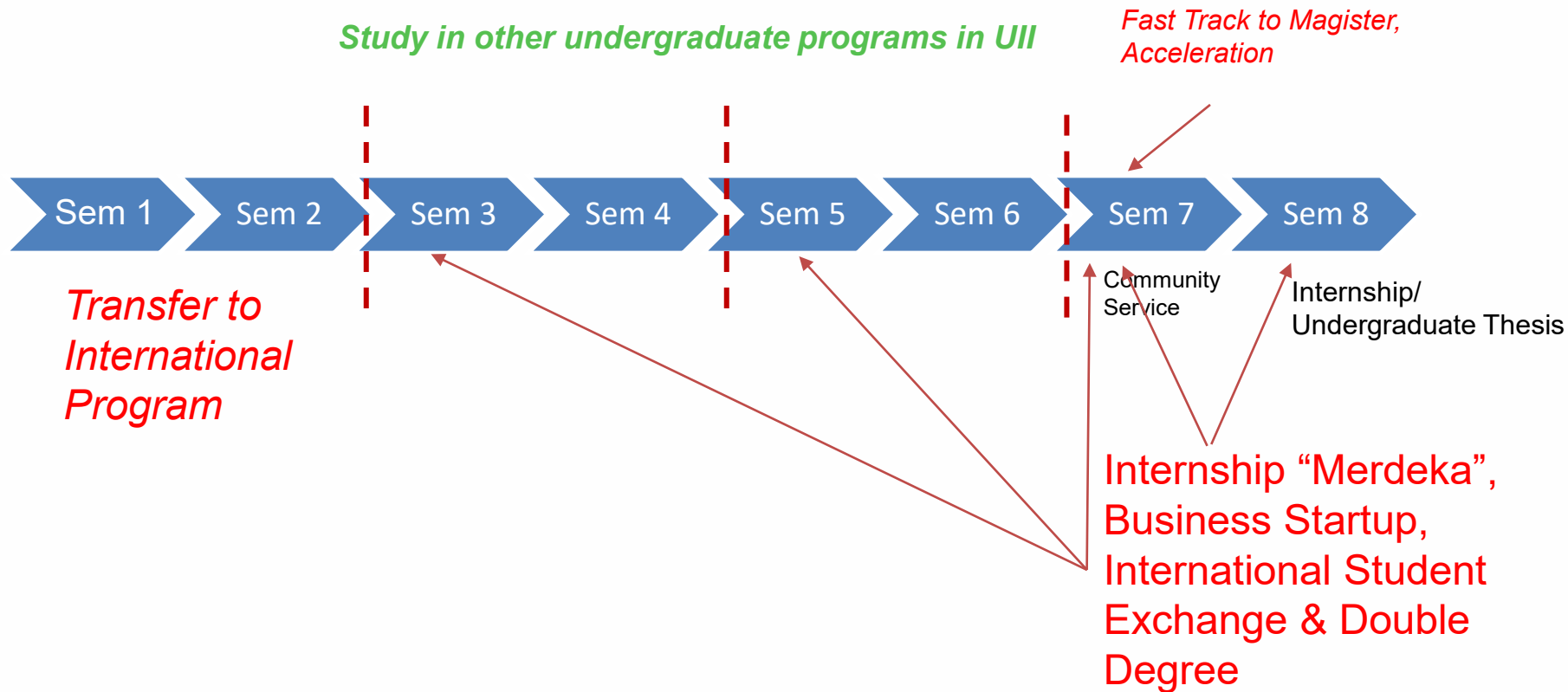
- 12-credit Elective Course in Rural Development/Thematic Community Services as additional credits to 144 credits of undergraduate program completion,
- 2-credit Civic Education
- 2-credit Pancasila
- 2-credit Scientific Writing
- 2-credit Community Service

Indonesian International Student Mobility Award

- The program is held in 6 months.
- The courses enrolled can be converted to equivalent courses as a whole or partial.
- The inequivalent enrolled courses can be converted to the following courses as a whole 20 credits or just partial credits.
 - The Elective Course in Indonesian International Student Mobility Awards for a maximum of 12 credits (as additional credits to 144 credits of undergraduate program completion),
 - Civic Education for 2 credits,
 - Pancasila for 2 credits,
 - Scientific Writing for 2 credits,
 - English for 2 credits.

Process of Study

Study time limitation: 7 years including academic leave



Maximum Credit 24 each Semester

BANGKIT Program by Ditjen Dikti

National Student Exchange: Nationwide University Network in Indonesia (NUNI)



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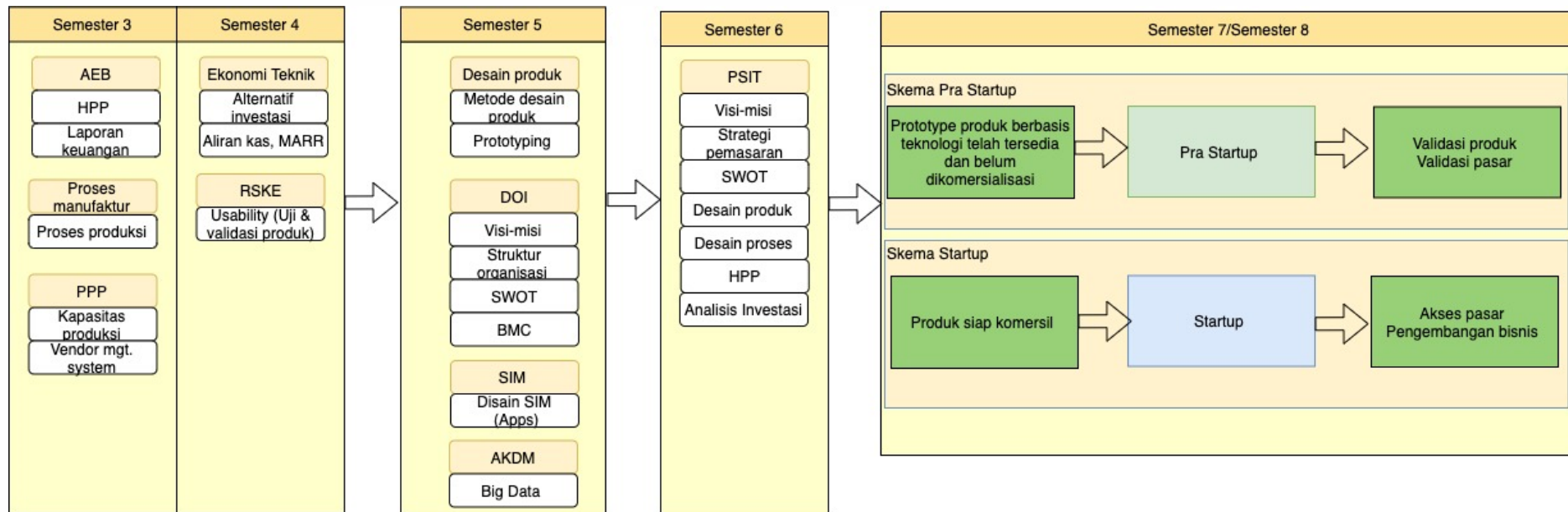
Requirements for Apprenticeship / Internship “Merdeka”

- The internship is performed at the partner companies of Department, Faculty/University
- The students must register themselves at the administration office of the Undergraduate Program in Industrial Engineering by accessing the following form <https://bit.ly/MBKMregform>. To monitor the registration progress, the students could access <https://bit.ly/progressMBKM>
- The internship program is conducted in the 7th for a six-month internship or the 8th semester for a three-month internship.
- The students must follow the course path as suggested by the Undergraduate Program
- Minimum GPA of 3.0 and passed the CEPT
- Minimum one lecturer is assigned as the internship supervisor

Requirements for Business Startup “Merdeka”

- The students are suggested to take the business startup and **must** register themselves at the administration office of the Undergraduate Program in Industrial Engineering by accessing the following form <https://bit.ly/MBKMregform>. To monitor the registration progress, students could access <https://bit.ly/progressMBKM>
- Selected courses must meet the scheme of the entrepreneurship path (business startup).
- Minimum GPA of 3.0
- It could be proposed individually or in the group, but the student must be positioned as the main organizer, as [Hispter](#) (design & UX: responsible for design and user experience for a product), Hacker (engineers & developers; responsible for the technology of a product) and hustler (marketing & business system design: responsible in marketing, product exposure, networking, and management).
- Minimum one lecturer has to be assigned as supervisor.

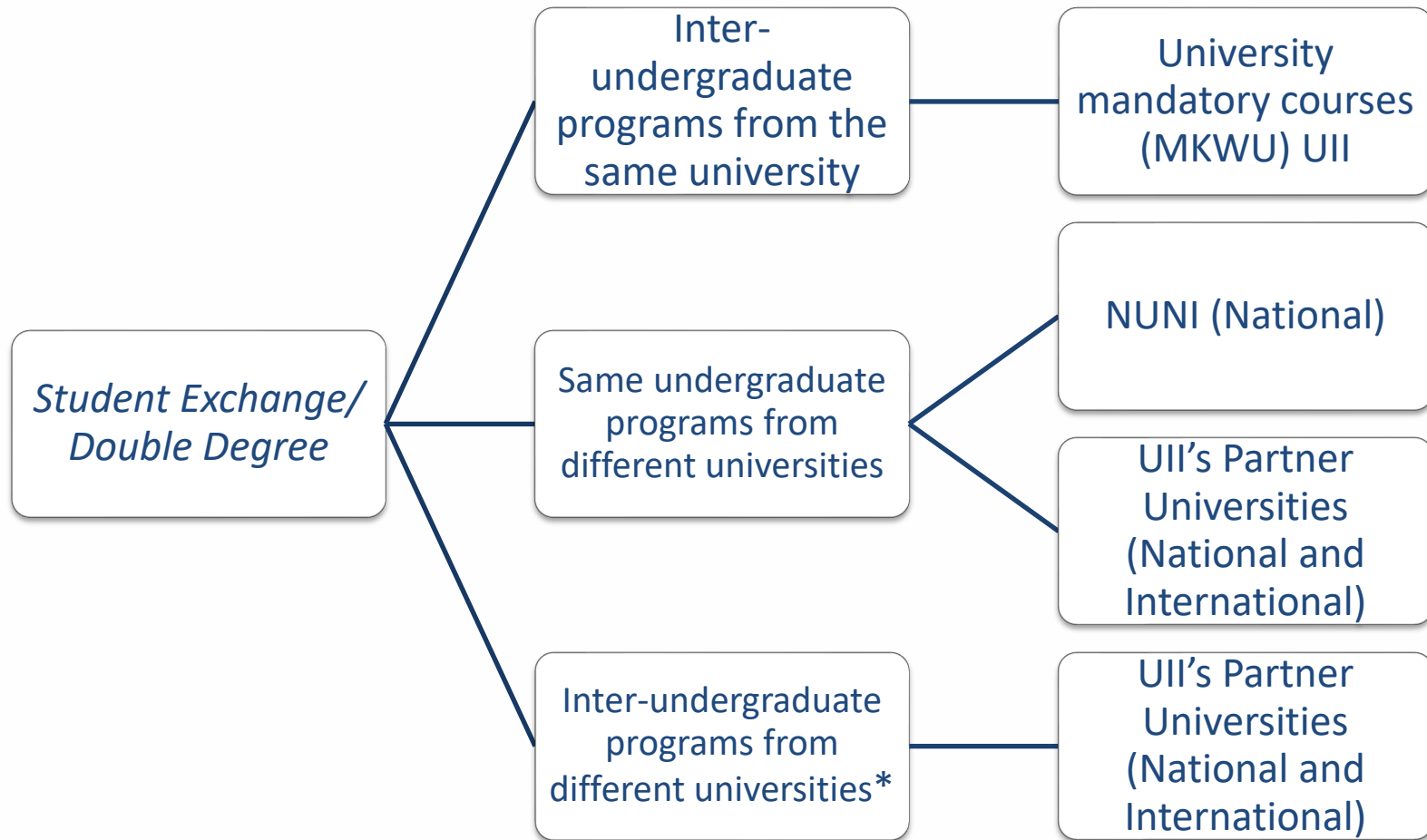
Mechanism for Business Startup “Merdeka”



There are 2 schemes:

- Pre-Startup, a technology-based product that completed with a prototype, uncommercialized without business legalization.
- Startup (a technology-based product that is ready to be commercialized)

Student Exchange/ Double Degree



* the curriculum of the assigned university supports the competence of the program and grants approval from the undergraduate program in Industrial Engineering

Requirements for Student Exchange/ ICT/ Double Degree- non UII

- Students have attained a minimum GPA of 3.0, have accomplished 80 credits. The designated undergraduate program must hold the same grade of accreditation. Particularly for International Program students, they are recommended to select the program, which also runs the international class
- The program will be converted to a relevant-weight course, as stated in the current curriculum of the Undergraduate Program in Industrial Engineering.
- Students must register the program to Study Plan, so the result of the program is visible for the conversion process.
- For system approval, the students must consult to Academic Advisor and Head of Undergraduate Program in Industrial Engineering related to the Independent Learning Program and register to <https://bit.ly/MBKMregform>

Other Scheme of Completion

- Minimum GPA of 3.0
- The students must register themselves at the administration office of the Undergraduate Program in Industrial Engineering by accessing the following form <https://bit.ly/MBKMregform>. To monitor the registration progress, the students could access <https://bit.ly/progressMBKM>

Collaborations

- Student Exchange (Overseas): Chulalongkorn University, University of Gloucestershire, FONTYS, Hanyang University, Woosong University, Universiti Teknikal Malaysia, University of Aveiro, Mapua University, and all UII Partner Universities.
- Student Exchange (Internal): All universities under NUNI network (Nationwide University Network in Indonesia), BKSTI Yogya Area, UII Partner Universities.
- Internship: PT Yamaha Indonesia, PT Inti Ganda Perdana, PT FUCHS Indonesia, PT Globalindo Intimates, Disperindag Yogyakarta, All companies under the Forum of Human Capital Indonesia (Certified Internship Program - PMMB), All companies under the Campus Internship Program by The Ministry of Education and Culture , International Companies from Vietnam and Japan and others.

Important Links

- Curriculum :
 - <https://industrial.uii.ac.id/ip/academic/the-2021-curriculum/>
- Internship :
 - <https://industrial.uii.ac.id/ip/academic/internship/>
- International Internship :
 - <https://industrial.uii.ac.id/ip/academic/international-internship/>
- Double Degree & Fast Track Program :
 - <https://industrial.uii.ac.id/ip/mobility/double-degree-program/>

Important Links

- International Credit Transfer (ICT) Program :
 - <https://industrial.uii.ac.id/ip/mobility/ictipieuui>
- MBKM
 - <https://industrial.uii.ac.id/ip/academic/mbkm/>

Find more info at [IP Website](#)

Email: interpro.fti@uii.ac.id

LINE: @industrial.ipuii

IG: industrial.ipuii

Web: industrial.uii.ac.id/ip/

Facebook: @industrialipuii

Youtube : industrial.ipuii

Thank You



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