
International Undergraduate Program



Departemen Teknik Informatika
Fakultas Teknologi Elektronika dan Informatika Cerdas
Institut Teknologi Sepuluh Nopember
Surabaya

20
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What's inside

International Undergraduate Program

The Department of Informatics ITS (DIF ITS) was founded in 1985. under the Faculty of Industrial Engineering. In 2006. DIF ITS achieved 'A' accreditation from Badan Akreditasi Nasional Perguruan Tinggi (BAN-PT) from the Directorate of Higher Education Indonesia. The DIF ITS received several grants to strengthen our academic competence. such as PHK A3 from the Directorate of Higher Education Indonesia (year 2007).

JICA Predict from Japan (year 2009). International ASIIN Accreditation grant and PKKM grant for the Freedom of Study from the Ministry of Education and Culture Indonesia (year 2020 and 2021 respectively). The DIF graduates' competences are in-in software programming network

Lecturers (professor, doctoral, and master). advanced laboratories and workshops. smart classrooms. a reading room, prayer room, multipurpose hall cafeteria. and sports facilities.

Curriculum

2023-2028

1st year Semester 1

Courses	skls
Calculus 1	3
Fundamental Programming	4
Digital System	3
Linear Algebra	3
Database System	4

2nd year Semester 3

Courses	skls
Web Programming	3
Object Oriented Programming	3
Computer Network	4
Graph Theory	3
Discrete Mathematics	3
Artificial Intelligence Concepts	3
Software Development Principles	2

Semester 2

Courses	skls
Data Structure	4
Operating System	4
Computer Organization	3
Numerical Computation	3
Calculus 2	3
Introduction to Intelligent Electrical and Informatics Technology	2

Semester 4

Courses	skls
Network Programming	3
Probabilistic and Statistic	3
Automata	2
Database Management	3
Design and Analysis Algorithms	3
Machine Learning	3
Software Design	3

3rd year**Semester 5**

Courses	skls
Software Design	3
Information Security	3
Modeling and Simulation	3
Computer Graphics	3
Knowledge based Engineering	3
Elective 1	3
Elective 2	3

Semester 6

Courses	skls
English	2
Technopreneurship	2
Religion	2
Citizenship	2
Mobile Programming	3
Human and Machine Interaction	3
Elective 3	3
On Job Training	4

4th year**Semester 7**

Courses	skls
Indonesian	2
Pancasila	2
Technology Application and Digital Transformation	3
Professional Ethics	2
Undergraduate Pre-Thesis	2
Elective 4	3
Elective 5	3
Enrichment Course	3

Semester 8

Courses	skls
Undergraduate Thesis	5



Specializations and Careers

During their education, students of Informatics can choose one of the eight specializations provided. Specializations is highly related to the elective course and the topic of final project.

- Algorithm and programming
- Computer Network Architecture
- Applied computing and Modelling
- Graphics, Interactions, and Game

- Net Centric Computing
- Intelligent Computing and Vision
- Intelligent Information Management
- Software Engineering

Careers options

- Software Engineer/Developer
- System Developer
- Web Engineer/Developer
- Database Specialist
- IT Consultant
- IT Trainer

- Game Engineer/Developer
- Mobile Apps Developer
- Security Specialist
- Computer Network Specialist
- Data Analyst
- Software Project Manager

International Exposure Activities



JOINT DEGREE/ DOUBLE DEGREE

Taking two degrees at ITS and overseas partner universities.



STUDENT EXCHANGE

Conduct lectures at overseas partner universities with credit transfers for one/two semesters.



FINAL PROJECT

Working one Final Project at an overseas partner university with a joint supervisor.



SHORT PROGRAM

Student exchange activities to universities in overseas in a short period of time (5 – 21 days).



INTERNSHIP

Working projects in multinational companies or in overseas partner university laboratories.

our **DOUBLE DEGREE** partners

Curtin University



Model Program Double Degree 2+2
Mahasiswa melaksanakan program DD dengan 2 tahun di Institut Teknologi Sepuluh Nopember dan 2 tahun di CURTIN UNIVERSITY.

Persyaratan Khusus:IPK minimal 3.00
IBT TOEFL minimal 80 atau IELTS minimal 6.0

Rincian Biaya:Tuition Fee (SPP): AUDS 25,040/tahun
Living Cost: AUDS 18,000/tahun

The University of Queensland



Model Program Double Degree: 2.5 + 1.5
Mahasiswa melaksanakan program DD dengan 2.5 tahun di Institut Teknologi Sepuluh Nopember dan 1.5 tahun di The University of Queensland

Persyaratan Khusus:IPK minimal 3.00
IBT TOEFL minimal 80 atau IELTS minimal 6.0

Rincian Biaya:Tuition Fee (SPP): AUDS 25,040/tahun
Living Cost: AUDS 18,000/tahun

Universiti Teknologi Petronas



Model Program Double Degree: 2 + 2.3
Mahasiswa melaksanakan program DD dengan 2.5 tahun di Institut Teknologi Sepuluh Nopember dan 2.3 tahun di UNIVERSITY TEKNOLOGI PETRONAS

Persyaratan Khusus:Translrip harus sesuai

Rincian Biaya:Tuition Fee (SPP):
158.000.000/tahun (all in)
Living Cost: 3.000.000/bulan

Fontys University



Model Program Double Degree: 3+1
Mahasiswa melaksanakan program DD dengan 3 tahun di Institut Teknologi Sepuluh Nopember dan 1 tahun di Fontys University

Persyaratan Khusus:IPK minimal 3.00

Rincian Biaya:Tuition Fee (SPP):
€1.850/tahun (all in)
Living cost €10.000/tahun

Asia University



Model Program Double Degree: 2+2
Mahasiswa melaksanakan program DD dengan 2 tahun di Institut Teknologi Sepuluh Nopember dan 2 tahun ASIA UNIVERSITY

Persyaratan Khusus: Visa student full degree

Rincian Biaya: Tuition Fee (SPP): Rp. 28.000.000/tahun
Living Cost: 5.000.000/bulan

Tomsk State University



Model Program Double Degree: 2+2
Mahasiswa melaksanakan program DD dengan 2 tahun di Institut Teknologi Sepuluh Nopember dan 2 tahun TOMSK STATE UNIVERSITY

Persyaratan Khusus: Minimal 15 mahasiswa yang mengikuti DD/batch

Rincian Biaya: Tuition Fee (SPP): Rp. 75.000.000/tahun
Living Cost: 3.000.000/bulan

OUR SHORT PROGRAM

In cooperation ITS and Universiti Sains Malaysia (USM) rank 143 worldwide



last for one month
(4 weeks) in July



transferrable to
6-8 credits at ITS, 6
credits are the
core competence



tuition fee is USD 1300 for
fewer than ten students, or
less than USD 1300 if more
students are participating
including dormitory around
USM



Registration
Starts January
Ends March

OUR Company Internship

In cooperation ITS and Universiti Sains Malaysia (USM) rank 143 worldwide



last for one semester (16 weeks-26 weeks) students are given real case studies at the companies



Starts March or September for 4-6 months Program fee ± 5500 MYR (± 19 million rupiahs)



transferrable to 20sh credit at ITS. under the student exchange visa / working visa. Students are paid 1000RM (in company) or 500 RM (in USM)



companies are to teach students at USM mixed with face-to-face class meetings. Registration: Starts January Ends March

OUR Laboratorium Internship

In cooperation ITS and Universiti Teknologi Petronas



Embark a journey minimum of 8 weeks or more in UTP research centres



Experience a global researchbased internship with leading and prominent researchers.



Supervised and led by prominent researchers and work in any of the cutting-edge research areas available at UTP.



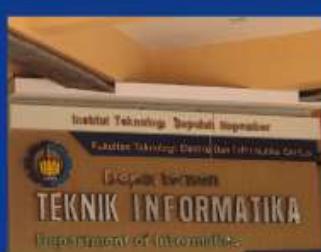
Have access to excellent research facilities (i.e. laboratories, equipment, software, etc.)

Students Exchange Partners

1. Cardive University, UK
2. Thessaloniki, Greece
3. naka No Mado, Sasayama, Japan
4. Kanagawa Institut of Technology
5. Dankook University
6. Fontys University
7. Kumamoto University
8. Ajoo University
9. Codebrick, South Korea
10. Hiroshima
11. Shibaura Institut of Technology, Tokyo
12. Chulalangkorn University, Thailand
13. NTUST, Taiwan
14. Asia University Taichung College of Information and Electrical Engineering
15. Hanze University
16. Okanagan College

17. Asia University
18. Istanbul Aydin University
19. NTU, NUS Lasalle
20. University Malaya
21. University of Fukui
22. University of Applied Science in Nysa
23. National Chung Cheng University
24. Chung Ang Uni
25. Memorial University of Newfoundland
26. University of Granada
27. University of Pisa
28. Amari Pattaya, Chonburi
30. National Taiwan University of Science and Technology
31. University Teknologi Malaysia

DIF's Galleries





Raise Your **Dream** with Us



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