

International Undergraduate Program

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



20
24

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 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	sks
Calculus 1	3
Fundamental Programming	4
Digital System	3
Linear Algebra	3
Database System	4

Semester 2

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

2nd year

Semester 3

Courses	sks
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 4

Courses	sks
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

Courses

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

Semester 5

sks

Semester 6

Courses

sks

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

Courses

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 7

sks

Semester 8

Courses

sks

Undergraduate Thesis	5
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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

Univrsity 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): €11.850/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.*

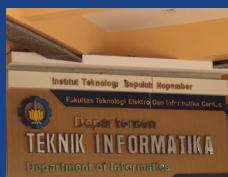


*Have access to
excellent research
facilities (i.e.
laboratories,
equipment, software,
etc.)*

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. Chulalongkorn 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



TEKNIK
INFORMATIKA

Departemen Teknik Informatika
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Institut Teknologi Sepuluh Nopember
Surabaya

Contact Person

Whatsapp (+62)315995581 (**text only**)
Email tinformatika@its.ac.id
website <https://www.its.ac.id/informatika/>