



ITS
Institut
Teknologi
Sepuluh Nopember



Buku Panduan Mahasiswa (*Student Handbook*)



Available online at:
<https://www.its.ac.id/telektro/academics/bachelor-degree/student-handbook/>

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**Departemen Teknik Elektro (DTE)
Fakultas Teknologi Elektro dan Informatika Cerdas (FTEIC)
Institut Teknologi Sepuluh Nopember Surabaya**

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Appendix 10.1 : Graduates Learning Outcomes to The Subject-Specific Criteria (SSC) Matrix
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I. Introduction to ITS Electrical Engineering Department

1. History of ITS Surabaya Electrical Engineering Department

Bachelor's Degree of Electrical Engineering (BoEE) study program is an undergraduate program offered for the first time by EED-ITS in 1960. This study program was established under decree of Ministry of Education and Culture No. 93367/UU/1960 dated 03 November 1960. Only undergraduate program was offered at that time until 1993. Driven by fast national development of higher education system and huge demand for higher qualification graduate, EED-ITS established Master of Engineering and Doctoral Program in 1993 and 2004, respectively. Since then, EED-ITS is growing and driven to seek international recognition through delivering international standard education practices and strengthening research activities.

2. EED's Vision and Mission

EED-ITS has a vision to become a world-class higher education institution and a preference in research and development of leading technology in the field of electrical engineering and related fields. To achieve this vision EED-ITS has set several missions which are described below:

1. Delivering a high standard teaching and learning process supported by high-quality human resources and standardized facilities.
2. Creating a conducive academic atmosphere for students and staff to trigger creative and innovative thinking.
3. Providing support to research related activities.
4. Contributing to society through innovative and creative thinking, application of technology, and partnerships.

3. Graduate Profile Description (Subject-Specific Criteria) and Program Learning Outcome (PLO)

The study program has obligation to provide graduates with specific knowledge and skill in electrical engineering fields, ethics, and strong character to successfully pace their career in the future. Therefore, graduates of the study program are expected to have intended profiles and capabilities stipulated in Program Educational Objectives (PEOs) as follows:

- a) Graduates are capable of contributing to their profession by applying their knowledge and skills in the field of electrical engineering.
- b) Graduates shall be capable to apply engineering code of ethics by abiding laws and regulations.
- c) Graduates are capable in practicing their profession resiliently, confidently, creatively, and abiding their belief.
- d) Graduates have leadership characteristics which is capable to communicate, inspire and act as role model to their community, and to be responsible to their works.

To assure graduates attributed with the intended profiles, the study program has formulated a set of Program Learning Outcomes (PLOs) which are shown in Table 1.1. The PLOs describe the knowledge, skills, and competencies that students must acquire when they complete their studies in a study program. The correlation between formulated PLOs and PEOs in Table 1.2 shows that the intended learning outcomes support the intended graduate profile.

Table 1.1. Program Learning Outcome (PLO)

PLO-1	Capable to apply knowledge of natural sciences and mathematics to solve electrical engineering problem
PLO-2	Capable to design and carry out laboratory and / or field experiments, analyze and interpret data, and use objective judgments to draw conclusions
PLO-3	Capable to design logical and realistic components, systems, and processes in accordance with specified specifications by considering safety, social, cultural, environmental, and economic aspects
PLO-4	Capable to work effectively in groups of members across disciplines and cultures by showing leadership traits, and being able to define goals, work plans, and achievements
PLO-5	Capable to identify, formulate and solve problems in the field of electrical engineering
PLO-6	Capable to comply with applicable laws and regulations, professional ethics and be responsible for the field of work considering the global, economic, environmental, and social context.
PLO-7	Capable to communicate effectively both in written and oral form
PLO-8	Capable to apply the principles of technology-based entrepreneurship and establish networks both at national and international levels
PLO-9	Capable to learn independently to foster lifelong learning abilities
PLO-10	Capable to know and respond to the latest developments in science and technology by promoting universal values
PLO-11	Capable to apply methods, ICT, and modern devices in solving problems in the field of electrical engineering
PLO-12	Capable to show religious, nationalist, and respectful character

Table 1.2. Correlation between Graduate Profiles dan PLO of the Study Program.

	Graduate Profile(s)	PLO -1	PLO -2	PLO -3	PLO -4	PLO- 5	PLO -6	PLO -7	PLO -8	PLO -9	PLO -10	PLO- 11	PLO -12
PEO -1	Graduates are capable to contribute to their profession by applying their knowledge and skills in electrical engineering												
PEO -2	Graduates shall be capable to apply engineering code of ethic by abiding laws and regulations												
PEO -3	Graduates are capable in practicing their profession resiliently, confidently, creatively, and abiding their belief.												

	Graduate Profile(s)	PLO -1	PLO -2	PLO -3	PLO -4	PLO- 5	PLO -6	PLO -7	PLO -8	PLO -9	PLO -10	PLO- 11	PLO -12
PEO -4	Graduates have leadership characteristics which is capable to communicate, inspire and act as role model to their community, and to be responsible to their works												

4. Types of Study Programs

Undergraduate Program: Regular and International Undergraduate Program (IUP)

Master/Graduate Program: Regular, By Research, Distance Education

Doctoral/Postgraduate Program: Regular, By Research, Distance Education

II. Lecturer Data

5. Lecturer Data

No.	Permanent Lecturer Name	Date of Birth	Academic Position	Academic Degree	Bachelor, Master, Doctoral Education and College Origin	Field of Expertise for Every Level of Education	Study Program Taught
-1	-2	-4	-5	-6	-7	-8	-9
1	Abdullah Alkaf	23-01-1955	Professor	Ir., M.Sc., Ph.D.	Bachelor - ITS Master - Florida University, USA Doctoral - Florida University, USA	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
2	Achmad Jazidie	19-02-1959	Professor	Ir., M.Eng., Dr.Eng.	Bachelor - ITS Master - Hiroshima University, Japan Doctoral - Hiroshima University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
3	Adi Soeprijanto	05-04-1964	Professor	Ir.,M.T., Dr.Eng.	Bachelor - ITB Master - ITB Doctoral - Hiroshima University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral

4	Gamantyo Hendrantoro	11-11-1970	Professsor	Ir., M.Eng., Ph.D.	Bachelor - ITS Master - Carleton University, Canada Doctoral - Carleton University, Canada	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
5	Imam Robandi	17-08-1963	Professor	Ir., M.T., Dr.Eng.	Bachelor - ITS Master - ITB Doctoral - Tottori University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
6	Mauridhi Hery Purnomo	16-09-1958	Professor	Ir., M.Eng., Dr.Eng.	Bachelor - ITS Master - Osaka City University, Japan Doctoral - Osaka City University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Master, Doctoral
7	Mochamad Ashari	12-10-1965	Professor	Ir., M.Eng., Ph.D.	Bachelor - ITS Master - Curtin University of Technology, Australia Doctoral - Curtin University of Technology, Australia	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
8	Mohammad Nuh	17-06-1959	Professor	Ir., DEA, Dr.	Bachelor - ITS Master - USTL, France Doctoral - University Montpellier II, France	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Doctoral

9	Ontoseno Penangsang	15-07-1949	Professor	Ir., M.Sc., Ph.D.	Bachelor - ITS Master - Wisconsin University, USA Doctoral - Wisconsin University, USA	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
10	Yoyon Kusnendar Suprpto	25-09-1954	Professor	Ir., M.Sc., Dr.	Bachelor - ITB Master – University of Missouri, USA Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral – Electrical Engineering	Master, Doctoral
11	Achmad Arifin	14-03-1971	Associate Professor	S.T., M.Eng., Ph.D.	Bachelor - ITS Master - Tohoku University, Japan Doctoral - Tohoku University, Japan	Bachelor - Electrical Engineering Master - Electronics Doctoral - Electronics	Master, Doctoral
12	Achmad Mauludiyanto	03-09-1961	Associate Professor	Ir., M.T., Dr.	Bachelor - ITS Master - ITS DOCTORAL - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering DOCTORAL - Electrical Engineering	Bachelor, Master, Doctoral
13	Ari Santoso	18-02-1966	Associate Professor	Ir., DEA, Dr.	Bachelor - ITS Master - LAG INPG, France Doctoral - University Paul Sabatier, France	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
14	I Ketut Eddy Purnama	30-07-1969	Associate Professor	S.T., M.T. Dr.	Bachelor - ITS Master - ITB	Bachelor - Electrical Engineering Master - Electrical Engineering	Master, Doctoral

					Doctoral - University of Groningen, Nederlands	Doctoral - Biomedical Engineering	
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15	I Made Yulistya Negara	12-07-1970	Associate Professor	S.T., M.Sc., Dr.Eng.	Bachelor - ITS Master – Karlsruhe University, Germany Doctoral - Kyushu University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
16	Margo Pujiانتara	18-03-1966	Associate Professor	Ir., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
17	Mochamad Hariadi	09-12-1969	Associate Professor	S.T., M.Eng., Ph.D.	Bachelor - ITS Master - Tohoku University, Japan Doctoral - Tohoku University, Japan	Bachelor - Electrical Engineering Master - Intelligent Science Doctoral - Computational and Mathematical Structure Science	Master, Doctoral
18	Muhammad Rivai	26-04-1969	Associate Professor	S.T., M.T., Dr.	Bachelor - ITS Master - UI Doctoral - Unair	Bachelor - Electrical Engineering Master - Optoelectronics and Laser Applications Doctoral – Sensor Technology	Bachelor, Master, Doctoral
19	Soedibjo	07-12-1955	Associate Professor	Ir., M.M.T., Dr.	Bachelor - ITS Master - ITS Doctoral - ITS	Bachelor - Electrical Engineering Master – Master of Technology Management Doctoral - Electrical Engineering	Bachelor, Master, Doctoral

20	Suwadi	18-08-1968	Associate Professor	Ir., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
21	Titiek Suryani	30-11-1964	Associate Professor	Ir., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
22	Tri Arief Sardjono	12-02-1970	Assistant Professor	S.T., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - University of Groningen, Netherlands	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Biomedical Engineering	Master, Doctoral
23	Trihastuti Agustinah	12-08-1968	Lektor Kepala	S.T., M.T., Dr.	Bachelor - ITS Master - ITS Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
24	Adhi Dharma Wibawa	05-05-1976	Assistant Professor	S.T., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - University of Groningen, Netherlands	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Biomedical Engineering	Master, Doctoral

25	Ardyono Priyadi	27-09-1973	Assistant Professor	S.T., M.Eng., Dr.Eng.	Bachelor - ITS Master - Hiroshima University, Japan Doctoral - Hiroshima University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
26	Dedet Candra Riawan	19-11-1973	Assistant Professor	S.T., M.Eng., Ph.D.	Bachelor - ITS Master - Curtin University, Australia Doctoral - Curtin University, Australia	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
27	Dimas Anton Asfani	05-09-1981	Assistant Professor	S.T., M.T., Ph.D.	Bachelor - ITS Master - ITS Doctoral - Kumamoto university, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
28	Djoko Purwanto	11-12-1965	Assistant Professor	Ir., M.Eng., Ph.D.	Bachelor - ITS Master - Keio University, Japan Doctoral - Keio University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
29	Eko Mulyanto Y	01-06-1968	Assistant Professor	S.T., M.T., Dr.	Bachelor - ITS Master - ITS Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Master, Doctoral

30	Eko Setijadi	01-10-1972	Assistant Professor	S.T., M.T., Ph.D.	Bachelor - ITS Master - ITS Doctoral - Kumamoto University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
31	Endroyono	04-04-1965	Assistant Professor	Ir., DEA, Dr.	Bachelor – ITS Master - INSA De Rennes, France Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
32	Heri Suryoatmojo	03-06-1980	Assistant Professor	S.T., M.T., Ph.D.	Bachelor - ITS Master - ITS Doctoral - Kumamoto university, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
35	Puji Handayani	10-05-1966	Assistant Professor	Ir., M.T., Dr.	Bachelor - ITS Master - ITS Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
36	Ronny Mardiyanto	18 -01-1981	Assistant Professor	S.T., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - Saga University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Information Science	Bachelor, Master, Doctoral

37	Rony Seto Wibowo	29-11-1974	Assistant Professor	S.T., M.T., Dr.Eng.	Bachelor - ITS Master - ITB Doctoral - Hiroshima University, Japan	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
38	Supeno Mardi Susiki Nugroho	13-03-1970	Assistant Professor	S.T., M.T., Dr.	Bachelor - ITS Master - ITB Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Master, Doctoral
39	Surya Sumpeno	13-06-1969	Assistant Professor	S.T., M.Eng., Dr.	Bachelor - ITS Master - Tohoku University, Japan Doctoral - ITS	Bachelor - Electrical Engineering Master - Computational and Math. Structure Science Doctoral - Electrical Engineering	Master, Doctoral
40	Wirawan	09-11-1963	Assistant Professor	Ir., DEA., Dr.	Bachelor - ITS Master - University Nice Sophia, Antipolis, France Doctoral - University Nice Sophia, Antipolis, France	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
41	Achmad Affandi	14-10-1965	Assistant Professor	Ir., DEA., Dr.	Bachelor - ITS Master - INSA De Rennes, France Doctoral - INSA De Rennes, France	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral

42	Totok Mujiono	22-04-1965	Assistant Professor	Ir., M.I.Kom, Ph.d	Bachelor - ITS Master - Universitas Indonesia Doctoral - Tokyo Institut of Technology, Japan	Bachelor - Electrical Engineering Master – Computer Science Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
43	Hendra Kusuma	02-09-1964	Assistant Professor	Ir., M.Eng., Dr.	Bachelor - ITS Master - Curtin University, Australia Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
44	Astria Nur Irfansyah	25-03-1981	Assistant Professor	S.T., M.Eng., Ph.D.	Bachelor - UGM MASTER - Univ. Of New South Wales, Australia DOCTORAL - Univ. Of New South Wales, Australia	Bachelor - Electrical Engineering MASTER - Electrical Engineering DOCTORAL - Electrical Engineering	Bachelor, Master, Doctoral
45	Vita Lystianingrum Budiharto Putri	05-05-1982	Instructor/ Assistant Professor	S.T., M.Eng., Ph.D.	Bachelor - ITS MASTER - Univ. Of New South Wales, Australia DOCTORAL - Univ. Of New South Wales, Australia	Bachelor - Electrical Engineering MASTER - Electrical Engineering DOCTORAL - Electrical Engineering	Bachelor, Master, Doctoral
46	Ni Ketut Aryani	01-09-1965	Instructor/ Assistant Professor	Ir., M.T., Dr.	Bachelor - ITS Master - ITS Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral

47	Dimas Fajar Uman Putra	08-11-1988	Instructor/ Assistant Professor	S.T., M.T., Dr.	Bachelor - ITS Master - ITS Doctoral - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering Doctoral - Electrical Engineering	Bachelor, Master, Doctoral
48	Diah Puspito Wulandari	19-12-1980	Assistant Professor	S.T., M.Sc., Dr.	Bachelor - ITB Master - University of Edinburgh, UK Doctoral - ITS	Bachelor - Electrical Engineering Master - Artificial Intelligence Doctoral - Electrical Engineering	Master, Doctoral
49	Muhammad Attamimi	27-03-1985	Assistant Professor	B.Eng, M.Eng, Ph.D.	Bachelor - The University of Electro- Communications, Japan Master - The University of Electro- Communications, Japan Doctoral - The University of Electro- Communications, Japan	Bachelor - Electronic Engineering Master - Intelligent Systems Doctoral - Intelligent Systems	Bachelor, Master, Doctoral
50	Ali Fatoni	03-06-1962	Assistant Professor	Ir. M.T.	Bachelor – ITS Master - ITB	Bachelor - Electrical Engineering Master - Electrotechnic	Bachelor
51	Gatot Kusrahardjo	28-04-59	Assistant Professor	Ir. M.T.	Bachelor – ITS Master - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
52	Harris Pirngadi	10-05-1962	Assistant Professor	Ir. M.T.	Bachelor – ITS Master - ITB	Bachelor - Electrical Engineering Master – Electrical Engineering	Bachelor

53	Mochammad Sahal	19-11-1970	Assistant Professor	S.T. M.T.	Bachelor – ITS Master - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
54	Rusdhianto EAK	24-04-57	Assistant Professor	Ir. M.T.	Bachelor – ITS Master - ITB	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
55	Sjamsjul Anam	25-07-1963	Assistant Professor	Ir. M.T.	Bachelor – ITS Master - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
56	Tasripan	18-04-62	Assistant Professor	Ir. MT.	Bachelor – ITS Master - ITB	Bachelor - Electrical Engineering Master – Electrical Engineering	Bachelor
57	Zulkifli Hidayat	25-12-1970	Assistant Professor	S. T. M. Sc.	Bachelor - ITS Master - University of Twente, Enschede, Belanda.	Bachelor - Electrical Engineering Master – Electrical Engineering	Bachelor
58	Devy Kuswidiastuti	25-09-81	Instructor/ Assistant Professor	S.T. M.Sc.	Bachelor – ITS Master - Hochschule Darmstadt, Jerman	Bachelor Electrical Engineering Master – Electrical Engineering	Bachelor
59	Eka Iskandar	28-05-1980	Instructor/ Assistant Professor	S.T. M.T.	Bachelor - ITS MASTER - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
60	Fajar Budiman	07-07-1986	Instructor/ Assistant Professor	ST. M.Sc.	Bachelor – ITS Master – National Taiwan University of Science and Technology	Bachelor – Electrical Engineering Master – Electronics	Bachelor

61	Nurlita Gamayanti	01-12-1978	Instructor/ Assistant Professor	S.T. M.T.	Bachelor – ITS Master - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
62	Prasetiyono Hari Mukti	13-09-84	Instructor/ Assistant Professor	S.T. M.T. M.Sc	Bachelor - ITB Master – ITB Master – Delft University of Technology	Bachelor – Electrical Engineering Master – Electrical Engineering Master – Electrical Engineering	Bachelor
63	Rudy Dikairono	25-03-1981	Instructor/ Assistant Professor	S.T. M.Sc.	Bachelor – ITS Master - Hochschule Darmstadt, Jerman	Bachelor - Electrical Engineering Master – Electrical Engineering	Bachelor
64	Sri Rahayu	28-02-1968	Instructor/ Assistant Professor	S.T. M.T.	Bachelor – ITS Master - ITS	Bachelor - Electrical Engineering Master – Informatics Engineering	Bachelor
65	Suwito	05-01-1981	Instructor/ Assistant Professor	S.T. M.T.	Bachelor – ITS Master - ITB	Bachelor - Electrical Engineering Master – Electrical Engineering	Bachelor
66	Yusuf Bilfaqih	25-03-1972	Instructor/ Assistant Professor	S. T. M. T.	Bachelor – ITS Master - ITS	Bachelor - Electrical Engineering Master - Electrical Engineering	Bachelor
67	Danilar Fahmi	25-09-89	Lecturer	S.T. M.T.	Bachelor – ITS Master - ITS	Bachelor – Electrical Engineering Master – Electrical Engineering	Bachelor

68	Mohamad Abdul Hady	13-04-89	Lecturer	ST. MT.	Bachelor – ITS Master - ITS	Bachelor – Electrical Engineering Master- Electrical Engineering	Bachelor
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6. Research Field

No.	Permanent Lecturer Name	Academic Degree	Research Topic
1	Abdullah Alkaf	Ir., M.Sc., Ph.D.	Control System, Production System
2	Achmad Jazidie	Ir., M.Eng., Dr.Eng.	Control System, Robotic
3	Adi Soeprijanto	Ir., M.T., Dr.Eng.	Power System Analysis
4	Gamantyo Hendrantoro	Ir., M.Eng., Ph.D.	Radio Wave Propagation, Multi-Antenna Communications, Radar Array Processing
5	Imam Robandi	Ir., M.T., Dr.Eng.	Power System Engineering and Control
6	Mauridhi Hery Purnomo	Ir., M.Eng., Dr.Eng.	Artificial Intelligence & Deep Learning, Robotic & Signal Processing, Power System, Biomedical Engineering
7	Mochamad Ashari	Ir., M.Eng., Ph.D.	Power Electronics, Renewable Energy, Stand-alone and Grid Connected, Systems Power Quality
8	Mohammad Nuh	Ir., DEA, Dr.	Biomedical, Control System, Intelligent system
9	Ontoseno Penangsang	Ir., M.Sc., Ph.D.	Power System Simulation and Analysis, Power Quality

10	Yoyon Kusnendar Suprpto	Ir., M.Sc., Dr.	Audio Signal Processing
11	Achmad Arifin	S.T., M.Eng., Ph.D.	Biomedical Engineering
12	Achmad Mauludiyanto	Ir., M.T., Dr.	Multimedia Telecommunication
13	Ari Santoso	Ir., DEA, Dr.	Control System, Intelligent
14	I Ketut Eddy Purnama	S.T., M.T. Dr.	Medical Image Analysis, Microscopic Image Analysis, Computer Vision and Image Understanding
15	I Made Yulistya Negara	S.T., M.Sc., Dr.Eng.	High Voltage Engineering, Partial Discharge, Dielectric Material Characteristics, Transient Phenomena on HV
16	Margo Pujiantara	Ir., M.T., Dr.	Power System Engineering, Protection System, Power Quality, Industrial Electrical
17	Mochamad Hariadi	S.T., M.Eng., Ph.D.	Computational Intelligence, Computer Vision, Video and Image Processing, Game Technology, IoT, Big Data and Edge Computing
18	Muhammad Rivai	S.T., M.T., Dr.	Electronics, Sensor Technology, Chemical Sensor, Robotics, Artificial Intelligence
19	Soedibyo	Ir., M.M.T., Dr.	Renewable Energy Engineering, Power Quality
20	Suwadi	Ir., M.T., Dr.	Multimedia Communication, Broadband Wireless Communication, Software Defined Radio
21	Titiek Suryani	Ir., M.T., Dr.	Wireless Communications, Mobile Communications, Multicarrier Communications

22	Tri Arief Sardjono	S.T., M.T., Dr.	Biomedical Engineering
23	Trihastuti Agustinah	S.T., M.T., Dr.	Control Engineering, Fuzzy Control
24	Adhi Dharma Wibawa	S.T., M.T., Dr.	Image Processing, Biomechanics, Artificial Intelligence E-Gov Studies
25	Ardyono Priyadi	S.T., M.Eng., Dr.Eng.	Power System Transient, Dynamic Stability, Power System Protection, Power System Quality, Smart Grid & Artificial Intelligence
26	Dedet Candra Riawan	S.T., M.Eng., Ph.D.	Energy Conversion, Electric Machines, Power Electronics, Renewable Energy
27	Dimas Anton Asfani	S.T., M.T., Ph.D.	Electrical Engineering, Electrical Machines, Condition Monitoring, Diagnostics
28	Djoko Purwanto	Ir., M.Eng., Ph.D.	Robotics, Industrial Electronics, Machine Vision
29	Eko Mulyanto Y	S.T., M.T., Dr.	Computer Vision
30	Eko Setijadi	S.T., M.T., Ph.D.	Wireless Telecommunication, Antenna, Microwave circuit and propagation, EMC
31	Endroyono	Ir., DEA, Dr.	Telecommunication, Electronics, Intelligent Transportation System
32	Heri Suryoatmojo	S.T., M.T., Ph.D.	Renewable Energy, Power Electronic, Electric Machines
35	Puji Handayani	Ir., M.T., Dr.	Antenna and Propagation

36	Ronny Mardiyanto	S.T., M.T., Dr.	Robotic Vision, Biomedical Electronic, UAV Technology
37	Rony Seto Wibowo	S.T., M.T., Dr.Eng.	Power System Operation, Power System Planning, Renewable Energy, Power System Economics
38	Supeno Mardi Susiki Nugroho	S.T., M.Kom., Dr.	Game Technology, Software Engineering, Computational Intelligent
39	Surya Sumpeno	S.T., M.Eng., Dr.	Extended Reality, Data Mining Machine, Learning CHI-UX, Artificial Intelligence
40	Wirawan	Ir., DEA., Dr.	Statistical Signal Processing, Wireless Sensor Network, Video Coding, Underwater Acoustic
41	Achmad Affandi	Ir., DEA., Dr.	Wireless Communications, E-Learning Network, Management Protocol Engineering, Internet of Things
42	Totok Mujiono	Ir., M.I.Kom, Ph.d	Biosensor, Optical Transducer, QCM, Lock-In Technique, FPGA
43	Hendra Kusuma	Ir., M.Eng., Dr.	Biometric, Image Processing, Machine Learning, Electronic, Data Acquisition
44	Astria Nur Irfansyah	S.T., M.Eng., Ph.D.	Mixed Signal Circuit Design, VLSI, Stochastic Circuits, Microelectronics, Embedded Systems
45	Vita Lystianingrum Budiharto Putri	S.T., M.Eng., Ph.D.	Supercapacitors, Batteries, Monitoring and Diagnostics
48	Diah Puspito Wulandari	S.T., M.Sc., Dr.	Computer Engineering
49	Muhammad Attamimi	B.Eng, M.Eng, Ph.D.	Visual Recognition, Intelligent Systems, Artificial Intelligence, Intelligent Robotics
50	Ali Fatoni	Ir. M.T.	Control Engineering

51	Gatot Kusrahardjo	Ir., M.T.	Telecommunication, Network Access
52	Harris Pirngadi	Ir., M.T.	Electronics
53	Mochammad Sahal	S.T., M.T.	Control Systems Engineering, Multi Agent Systems, Signal Processing
54	Rusdhianto EAK	Ir., M.T.	Control Systems, Theory Process Control, Autonomous Vehicle, Motor Design, Electric Drive
55	Sjamsjul Anam	Ir., M.T.	Power System
56	Tasripan	Ir., MT.	Sensor Electronic Engineering, Data Acquisition, Control System Engineering
57	Zulkifli Hidayat	S.T., M. Sc.	Control Engineering, System Engineering, State Estimation
58	Devy Kuswidiastuti	S.T., M.Sc.	Wireless Communications, Radar system, signal processing
59	Eka Iskandar	S.T., M.T.	Industrial Automation, Industrial Process Control, industrial informatics, Variable Speed Drives/inverter, CNC
60	Fajar Budiman	S.T., M.Sc.	Electronic robotic, sensors, IoT
61	Nurlita Gamayanti	S.T., M.T.	Optimization System, System and Cybernetic
62	Prasetiyono Hari Mukti	S.T., M.T., M.Sc.	Wireless Communication, Radio Propagation, Antenna, System Microwave Engineering, Radar Systems
63	Rudy Dikairono	S.T., M.Sc.	Electronics, Embedded systems, Robotics

64	Sri Rahayu	S.T., M.T.	Telecommunication
65	Suwito	S.T., M.T.	Industrial Automation, Instrumentation, Power Electronics
66	Yusuf Bilfaqih	S. T., M. T.	System Engineering, Education Engineering
67	Daniar Fahmi	S.T., M.T.	Electrical Engineering, Power Electronic, High Voltage Engineering, Liquid Insulation
68	Mohamad Abdul Hady	ST., MT.	Control System, Intelligent Controller, Robotics

III. Curriculum

7. Role of Stakeholders in Curriculum Preparation

The Electrical Engineering Department of Institut Teknologi Sepuluh Nopember (EED-ITS) was founded in 1960 under the name of the Faculty of Electrical Engineering. Only the undergraduate program, or the Indonesia Language Undergraduate Program, was offered that time until 1993. Driven by the rapid development of the national higher education system and the great demand for highly qualified graduates, EED-ITS established the Master of Engineering and Doctoral programs in 1993 and 2004, respectively. Since then, EED-ITS has grown and driven to seek international reputation through the delivery of international standard educational practices and strengthening the research activities.

EED-ITS has a vision to become a world-class higher education institution and a leader in the research and development of electrical engineering and its related fields cutting-edge technology. To achieve this vision, EED-ITS has set several missions which are described below:

1. Realize a high standard teaching and learning process supported by high-quality human resources and standardized facilities.
2. Create a conducive academic atmosphere for students and staff to trigger creative and innovative thinking.
3. Provide support for related research activities.
4. Contribute to society through innovative and creative thinking, application of technology, and partnerships.

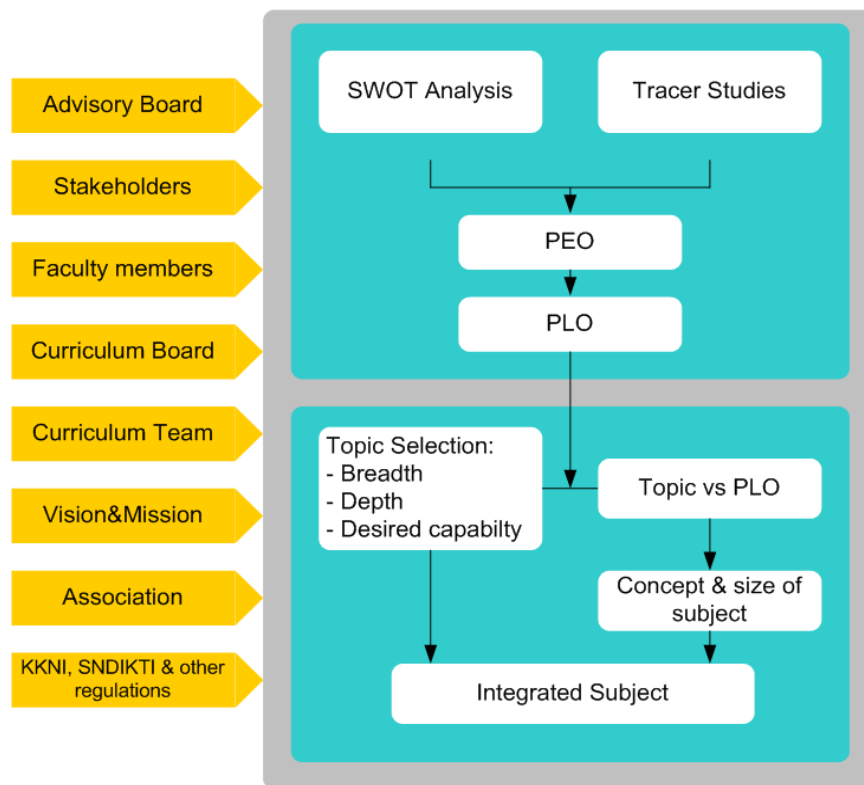
As previously mentioned, the Bachelor Study Program (S1) offered by EED-ITS in 1960, was founded based on the Decree of the Minister of Education and Culture No. 93367 / UU / 1960 dated November 3, 1960. Currently, this program has become one of the best electrical engineering programs in Indonesia according to SINTA.

1. Graduates can contribute to their profession by applying their knowledge and skills in the field of electrical engineering.
2. Graduates can practice the engineering code of ethics by paying attention to statutory regulations.
3. Graduates can carry out their profession tough, confident, creative, and obedient to their beliefs.
4. Graduates have a lead character who able to communicate, inspire and maintain their environment, and responsible for their work.

To ensure that graduates are associated with the desired profile, the program has formulated a set of Program Learning Outcomes (PLO's) which are shown in Table 1.1. PLO describes the knowledge, skills, and competencies that students must acquire when they have completed their studies in this program. The correlation between PLO and PEO formulations in Table 1.2 shows that the desired learning outcomes will support the desired graduate profile.

The development of PEO and PLO is part of a periodic general evaluation of the curriculum which is held every 5 years at ITS. The last evaluation was carried out in 2018 when a learning outcomes-based curriculum was introduced. An outcome-based curriculum is an implementation of the Indonesia Qualification Frame (KKNI, Presidential Decree No. 08/2012). The developed curriculum is in accordance with the Indonesia National Standard on Higher Education (SN-DIKTI, Law of the Ministry of Higher Education, No. 44, 2015).

The stages of preparing a graduate profile as part of the curriculum development chart are shown in Figure 1.1. Curriculum evaluation and development involves many parties including all program members, the Board of Trustees, and stakeholders from graduate entrepreneurs, academics, regulators, and alumni.



Curriculum evaluation begins with a strength and weakness analysis based on the results of the tracer studies. Recommendations and feedback from stakeholders are used to improve the PEO and PLO which in turn will be implemented in changes or variations to course in the new curriculum. Most of the recommendations and feedbacks were obtained from tracer studies and employer satisfaction surveys conducted by the ITS Student Advisory Centre. On some occasions, each program can conduct its own surveys to get specific information from alumni and employers. Apart from the tracer studies, the program also invites experts in each field to discuss and share their practical experiences with the graduates. In the final curriculum development, the program invited professors from foreign universities, practitioners from industry, and alumni. Some of the curriculum development activities are shown in Figure 1.2.

After the curriculum documents are completed, the department will request approval from the institute's curriculum board. Once approved, official information about the curriculum, including PEO and PLO, is then published on the department's website. In order to disseminate the profile of graduates and learning outcomes to stakeholders, a complementary document called SKPI and degree certificate is also attached. This document states explicitly the PEO and PLO of the program.

PLO mapping was used to check adherence to the sample learning outcomes suggested in the Subject-Specific Criteria (SSC). Mapping is based on aspects of knowledge, skills, ethics, and characters. The correlation between the PLO of the program and the relevant SSC is shown in Table 1.3. It can be seen from the table that all the leaning outcomes of the intended program correlate well with the learning outcomes suggested in the SSC.

ITS Student Advisory Centre conducts tracer studies and employer satisfaction surveys regularly. The results of the 2018 traces studies (graduation year of 2016) show that the employment rate is 70%. The remaining graduates continue their studies (~24%), self-employed (~4%) and nearly 2% of them become an entrepreneur. Among the employed alumni, around 74% stated that they worked in electrical engineering and / or related fields.



PLO Development Workshop



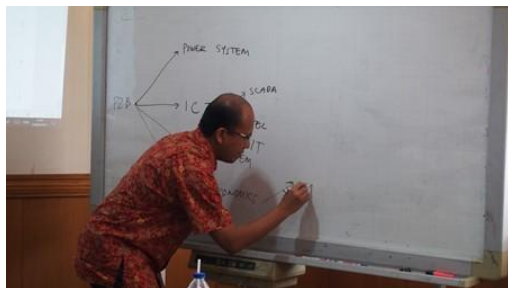
Curriculum Development Workshop



Sharing Session with Overseas Professors



Sharing Session with Alumni



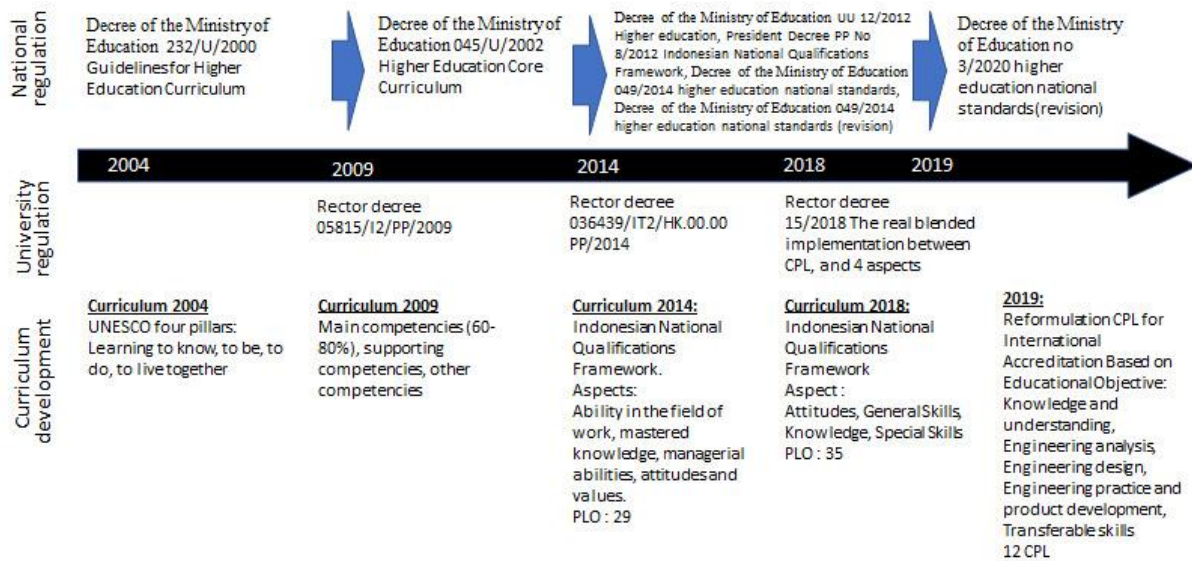
Sharing Session with Industries



Figure 1.2. Curriculum Development Program Documentation

8. Curriculum and Its Versions Determination Rules

The current curriculum is the 2018 curriculum. It is stipulated by the ITS Chancellor's Regulation Number 15 of 2018 concerning the 2018 ITS Academic Regulations.



9. Curriculum Scheme

The general structure of the Electrical Engineering Undergraduate Program Curriculum is as follows

Table 2.1. Electrical Engineering Undergraduate Program Curriculum

No	Types of Courses	Credits	Percentage	Semester
1	National Compulsory	8	5.5	I & II
2	ITS Compulsory	7	4.8	I, VI, & VII
3	Basic Science and Mathematic	26	18.1	I & II
4	Compulsory Electrical*	59	41	III until VIII
5	Elective Electrical**	41	28.5	V until VIII
6	Enrichment	3	2.1	VI until VIII
		144	100	

*including Practical Work (KP), Pre-Undergraduate Thesis (Pra-TA), Undergraduate Thesis (TA)

**including concentration field: compulsory and elective.

10. Graduates Learning Outcomes to The Subject-Specific Criteria (SSC) Matrix

Table 1.3. Correlation between Study Program Learning Outcome and relevant Subject-Specific Criteria.

		Study Program Learning Outcomes											
ASIIN		PLO-1	PLO-2	PLO-3	PLO-4	PLO-5	PLO-6	PLO-7	PLO-8	PLO-9	PLO-10	PLO-11	PLO-12
Educational objectives	Subject Specific Criteria												
Knowledge and understanding	gained a broad and sound knowledge in mathematics, natural sciences and engineering enabling them to understand the complex phenomena peculiar to electrical engineering / information technology.	1											
	gained an understanding for the broader multi-disciplinary context of Engineering Sciences.				1					1			
Engineering analysis	to select and apply actual methods of modelling, calculating, and testing concerning their field of specialisation.					1							
	to make research of technical literature and other sources of information relating given problems								1				
	to design and run experiments and computer simulations and to explain the results		1										
	to consult data base systems, information on norms, guidelines („codes of good practice“) and safety regulations for these purposes		1				1					1	
Engineering design	have special abilities to develop analogue and digital electric and electronic circuits, devices and products control in their design work the use of elements like modelling, simulation and tests as well as their integration in a problem oriented way			1									
	are able to design products for the global market			1									
	can apply their knowledge and understanding to acquire practical skills for problem solving, for research tasks and the design of systems and procedures			1									
Engineering practice and product development	have access to experience concerning possibilities and limits of the application of materials, computer-based model designs, systems, processes and tools for the solution of problems when solving complex problems											1	
	know the practice and its demands in production plants												
	are capable of searching technical literature and other information sources									1			
	demonstrate awareness of the health, safety and legal issues and responsibilities of engineering practice, the impact of engineering solutions in a societal and environmental context						1						
	commit to professional ethics, responsibilities and norms of engineering practice,						1						
	use the appropriate scientific methods and new findings of the engineering and science environment in their practical work while taking into consideration the economic, ecological, technical and social requirements			1									
	are aware of the non-technical effects of engineering activities						1						1
	are in the position to develop marketable products for the global market			1					1				
	analyse and present technical contexts understandingly in their own field and in neighbour fields;							1					
Transferable skills	operate on technical working tasks in a team and to coordinate it if necessary;				1			1					
	demonstrate an awareness of project management and business practices, such as risk and change management, and understand their limitations;						1						
	recognise the need for, and have the ability to engage in independent, life-long learning.									1			

11. Objective Module Matrix

Appendix 11.1

12. CPL to Courses Matrix

Each course is designed to support the Graduate Learning Outcomes (CPL). CPL to Courses Mapping can be seen in Appendix 12.1.

13. Syllabus

The syllabus for each course can be accessed on the EED-ITS website <https://www.its.ac.id/telektro/id/akademik/program-studi-sarjana/kurikulum/>

Attached the RAE, RT, and assessments are shared in class.

14. 1 Credit (SKS) Description

Citing the 2019 ITS Academic Regulation, the following is a description of the SKS load the program and description of the SKS unit.

Bagian Ketiga Beban Studi, Masa Studi, dan sks

Pasal 9

- (1) Beban studi atau beban belajar mahasiswa diukur dalam satuan kredit semester (sks), dan di setiap kurikulum Program Studi ditetapkan jumlah beban studi minimal yang harus ditempuh oleh mahasiswa sebagai berikut:
 - a. Program Sarjana sebesar 144 sks dengan masa studi maksimal 14 semester;
 - b. Program Magister sebesar 36 sks dengan masa studi maksimal 8 semester; dan
 - c. Program Doktor sebesar 42 sks dengan masa studi maksimal 14 semester.
- (2) Pembelajaran satu semester dilakukan minimal selama 16 minggu termasuk proses evaluasinya.
- (3) Satu sks pada proses pembelajaran yang berupa kuliah, responsi, atau tutorial, terdiri atas: pelaksanaan keseluruhan 3 kegiatan yaitu kegiatan tatap muka 50 (lima puluh) menit, penugasan terstruktur 60 (enam puluh) menit, dan belajar mandiri 60 (enam puluh) menit yang masing-masing dihitung per minggu dalam satu semester.
- (4) Satu sks pada proses pembelajaran yang berupa seminar atau bentuk lain yang sejenis, terdiri atas: pelaksanaan kegiatan tatap muka 100 (seratus) menit per minggu, dan kegiatan belajar mandiri 70 (tujuh puluh) menit per minggu, dalam satu semester.
- (5) Satu sks pada proses pembelajaran berupa praktikum, praktik studio, praktik bengkel, praktik lapangan, penelitian, pengabdian kepada masyarakat, dan/atau proses pembelajaran lain yang sejenis, terdiri atas: pelaksanaan kegiatan 170 (seratus tujuh puluh) menit per minggu dalam satu semester.

Third Part Study Load, Study Period, and Credits (SKS)

Article 9

- (1) Study load is measured in Semester Credit Units (SKS), and in each program curriculum, the minimum study load that students must take is as follows.
 - a. Undergraduate Program of 144 SKS with a maximum study period of 14 semesters;
 - b. Master Program of 36 SKS with a maximum study period of 8 semesters; and
 - c. Doctoral Program of 42 SKS with a maximum study period of 14 semesters.
- (2) One semester of learning is carried out for a minimum of 16 weeks including the evaluation process
- (3) 1 SKS in the learning process in the form of lectures, responses, or tutorials, consisting of: implementation of all 3 activities, that is face-to-face activities of 50 (fifty) minutes, structured assignments of 60 (sixty) minutes, and independent study of 60 (sixty) minutes each of which is calculated per week in one semester

(4) 1 SKS in the learning process in the form of seminars or other similar forms, consisting of: the implementation of face-to-face activities of 100 (one hundred) minutes per week, and 70 (seventy) minutes of independent study per week, in one semester

(5) 1 SKS in the learning process in the form of practicum, studio practice, workshop practice, field practice, research, community service, and/or other similar learning processes, consisting of: implementation of activities for 170 (one hundred and seventy) minutes per week in one semester

15. Curriculum per Semester Matrix

Curriculum per Semester Matrix can be seen in following website:

<https://www.its.ac.id/telektro/academics/bachelor-degree/curriculum/>

16. Course Prerequisite

Course Prerequisite can be seen in Appendix 16.1.

17. Course Flow

For taking courses from semester 1 to 8, you can follow the Course Flow. There is a Joint Preparatory Course in Electrical Engineering and areas of interest. Course Flow can be seen in Appendix 17.1.

18. SKEM and Foreign Language

In addition to having to take 144 credits of courses, for graduation, students must meet the Student's Extra-Curricular Credits Unit (SKEM) and pass a foreign language test. This is regulated in the academic regulations of Article 10 paragraph 7.

(7) Kemampuan salah satu bahasa asing dan nilai SKEM digunakan sebagai persyaratan kelulusan mahasiswa dengan skor minimal sebagaimana tercantum dalam tabel berikut:

	Sarjana	Kelas Internasional Program Sarjana	Magister	Doktor
Bahasa Inggris *)	477	500	477	500
Bahasa Jepang	280	280	-	-
Bahasa Jerman	66	66	-	-
Bahasa Perancis	66	66	-	-
Bahasa Mandarin	66	66	-	-
Bahasa Arab	66	66	-	-
SKEM **)	2.1	2.1	-	-

*) Skor berdasarkan tes sejenis dengan TOEFL.

**) Kegiatan olahraga (minimal 1 semester) merupakan SKEM wajib

(7) Proficiency in a foreign language and SKEM scores are used as graduation requirements for students with a minimum score as listed in the following table

	Undergraduate	International Undergraduate Program	Master	Doctoral
English*	477	500	477	500
Japanese	280	280	-	-
Deutsch	66	66	-	-
French	66	66	-	-
Mandarin	66	66	-	-
Arabic	66	66	-	-
SKEM**	2.1	2.1	-	-

* Score is based on similar test with TOEFL.

** Sports activities (1 semester minimum) is compulsory SKEM.

SKEM Guidebook can be seen in Appendix 18.1.

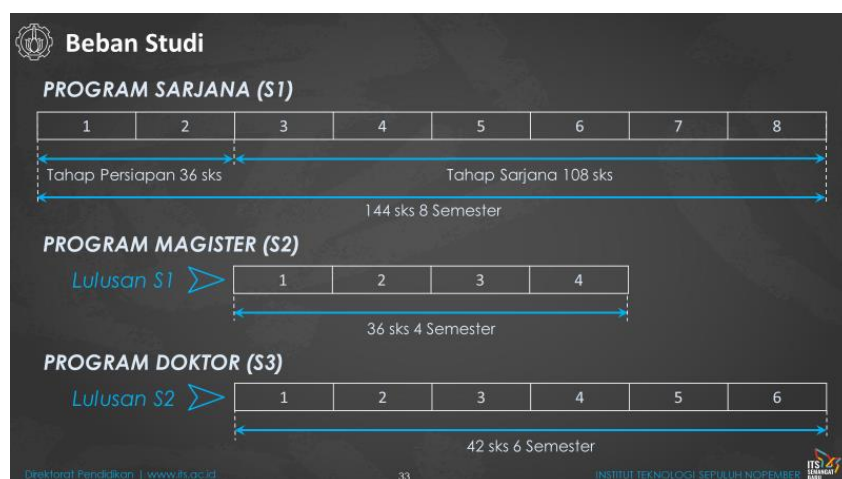
IV. Lecture Rules

19. Language Used

Regular	: Bahasa Indonesia
IUP	: English
Exchange	: English

20. Stage Evaluation

The following are the stage evaluations for each study program.

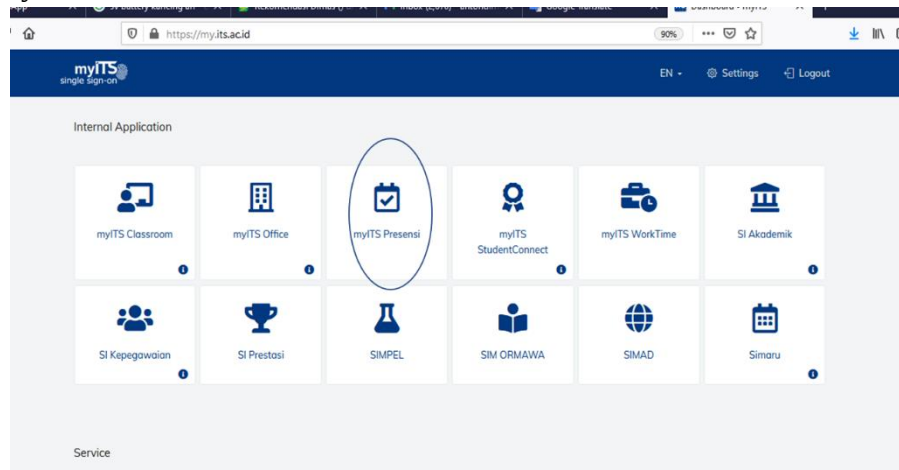


21. Lectures Regulation

Lectures start at 8-18, break at 12.30-13, lab work on office hour, no coming late, evaluation done minimum 4 times. Middle tests are unscheduled, final tests in week 15-16.

22. Online Attendance

During every lecture, students must fill online attendance.



23. Questionnaire

Record of Lectures:

After every lecture, please fill in the record of lectures. The mechanism can be seen in Appendix-23.1.

IPD:

Every end of semester, students are obliged to fill the IPD questionnaire to score the lectures given by the lecturer. Please access SI Akademik => Proses => Kuisisioner Dosen dan MK.

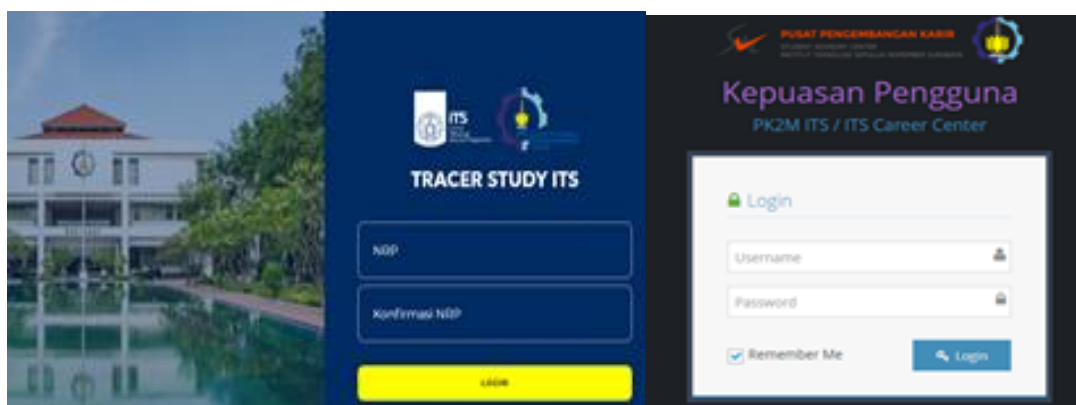
NO	KODE MK	MATA KULIAH	DOSEN	KUESIONER	
				MATA KULIAH	DOSEN
1	U1194915	Indonesian	Muhammad Ward, S.H., M.I.	OK	OK
2	LL184654	Statistik Terapan Lanjut	Dimas Fajar Utama Putra, S.T., M.T.	OK	OK
3	EE184719	Pengantar Sistem Tenaga Listrik	Dimas Fajar Utama Putra, S.T., M.T.	OK	OK
4	EE184711	Lab. Sistem Tenaga	TEAM TEACHING		
			Hadi Suryadarmo, S.T., M.T., Ph.D.	OK	OK
			Dr. Made Yulista Nugroho, S.T., M.I.	OK	OK
			Ukang Romy Seto Wibowo, S.T., M.I.	OK	OK
5	EE184911	Penerapan Transmisi Tenaga Listrik	I Guci Nugroho, Sahyudi Hendadi, ST, MT	OK	OK
6	EE184916	Kualitas Daya Listrik	I. N. Kiat Aryan, MT	OK	OK
7	EE184919	Manajemen Proyek dan Ketersediaan Daya	Dede Margo Pujiandana, M.T.	OK	OK
8	EE184804	Prinsip Sistem Tenaga Listrik	TEAM TEACHING		

Other questionnaires:

Graduate's questionnaire by PK2M ITS. This survey is held when students have been graduated. It can be accessed through these websites:

<https://www.its.ac.id/careers/services/tracer-study/>

<https://www.its.ac.id/careers/services/user-satisfaction/>



24. Examination Rules

Regular Tests: Examinations are held in classes based on the schedule and seating placements that have been determined for every subject and every student.

Online: Examinations will be held using online system including MyITS Classroom, email and other online medias.

Distance Class: Examinations will be held through online interview, MyITS Classroom, online medias, or distance class.

Application for Special Conditions (handicapped, sick, emergency) : For special conditions or emergency related to tests, students shall deliver the application through direct contact (phone call/email) to the lecturer or through MyITS Presensi or to department:

<https://intip.in/PermohonanSuratDTE>

Practical Work Examination: Practical work evaluation consists of 3 scores; by company's supervisor (40%), by supervisor (30%), and seminar score (30%). The full guide can be seen in Appendix 24.1.

Thesis Examination: Thesis evaluation can be done in the end of the semester by schedule. The process is done through SIM TERAS (teras.ee.its.ac.id). The user guide for TERAS can be seen in Appendix 24.2.

Lab-work Examination: Evaluation for lab-work is done through SIM LARAS (laras.ee.its.ac.id). The user guide for LARAS can be seen in Appendix 24.3.

25. Lab Work

There are several Basic Lab Work (obligatory) and Field Lab Work (based on chosen field). Several lab works, by administration are done through LARAS. Please access LARAS website and read the guidance in Appendix 25.1.

No	Laboratory	Credit	Semester	Number of Module	Note
1	Basic Computer Programing	1	1	3	<i>Embedded in Course (EW184102)</i>
2	Signal and System Lab	1	3	3	<i>Embedded in Course (EE184305)</i>
3	Basic Electrical and Telecommunication Systems (EE184406)	3	4	13	Done through LARAS
4	Electronics, Basic Power Systems, and Basic Control Systems (EE184503)	3	5	14	Done through LARAS
5	Power System Engineering Lab (EE184711)	3	Elective	14	Done through LARAS
6	Digital Control and Automation Lab (EE184721)	2	Elective	3	Done through LARAS
7	Telecommunication Technology Lab (EE184731)	3	Elective	5	Done through LARAS
8	Integrated Electronic System Lab (EE184741)	3	Elective	3	Done through LARAS

26. Lectures Regulation Outside Class

For lectures and evaluation outside the class including Practical Work, Undergraduate Thesis, Internship, Field Work, Student Exchange, credit transfer can be seen in Appendix 26.1.

27. Semester Off

Semester off regulation is on Academic Rules. You can access the information through EED website below: <https://www.its.ac.id/tektro/id/akademik/peraturan-dan-informasi/>

28. Exchange Subject Conversion

Rules for subject conversion for field work, internship, and exchange student can be seen in detail in Appendix 28.1.

The following is the general conversion:

Europe: ECTS. In general, 1 SKS = 1.44 ECTS.

Japan: 1 Credit Japan = 1 SKS

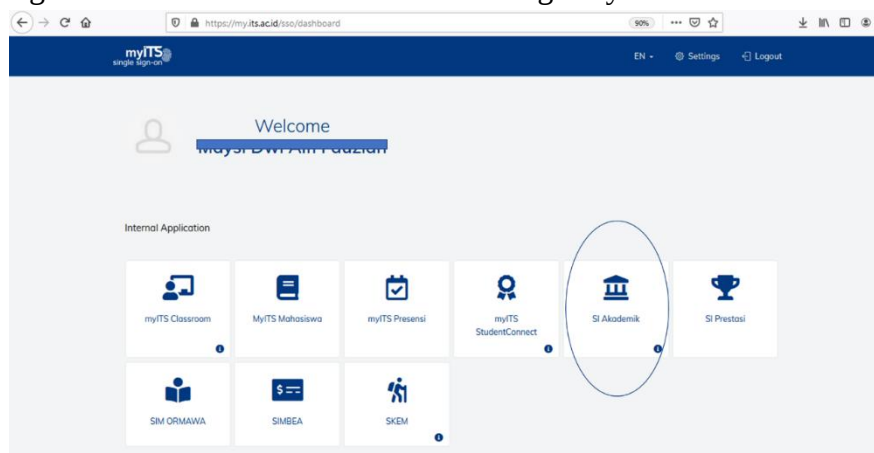
America: 1 Credit = 1.1 SKS

The conversion above is in general. Conversion for each student needs to be evaluated in detail and recorded in “Learning Agreement” letter. This letter is made before the student’s departure.

V. Daily Use Supporting System

29. Integra

Study Progress Data can be accessed online through MyITS SSO=> SI Akademik



30. IPD

After the semester ends, please do not forget to fill in the IPD (lectures and lecturer questionnaire), otherwise student’s GPA will not appear in SI Akademik.

31. MYPresensi & Record of Lectures

Record of lecture is noted every time the lecture ends. Please fill it through MyITSPresensi as shown below:

Daftar Presensi

EE184502 Lab. Elektronika, Dasar Sistem Tenaga dan Sistem Pengaturan (A)

Sabtu 07:00 - 09:50
Sabtu 07:00 - 09:50

Dosen:
Dr. Ir. Hendra Kusuma, M.Eng.Sc.
Dr. Ir. Ari Santoso, DEA.
Heri Suryoatmojo, S.T., M.T., Ph.D.

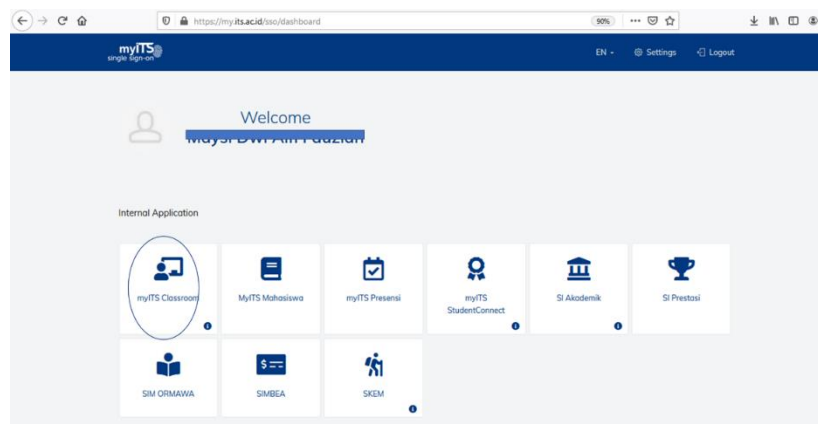
Data rekapitulasi kehadiran diperbarui pukul 00.00 WIB setiap harinya.

HADIR	IZIN	SAKIT	ALPA	TOTAL TATAP MUKA TERLAKSANA
8	0	0	0	8

TATAP MUKA	JADWAL	DOSEN	STATUS KEHADIRAN	KETERANGAN
1	Minggu, 11 Oktober 2020 06.00 - 08.50 B-305	Heri Suryoatmojo, S.T., M.T., Ph.D.	HADIR	☒ Berita Acara ☐ Catatan Kehadiran
2	Minggu, 11 Oktober 2020 19.00 - 20.50 B-305	Heri Suryoatmojo, S.T., M.T., Ph.D.	HADIR	☒ Berita Acara ☐ Catatan Kehadiran

32. MyClassroom

Lecture materials, examination documents and tasks can be accessed through MyITS Classroom.



33. TERAS

For Undergraduate Thesis, Master Thesis, Dissertation and other evaluations' requirements, students must use the Online Thesis Registration System (TERAS) system that can be accessed through <https://teras.ee.its.ac.id/>

34. LARAS

For lab works requirements, students must use Laboratory Registration System (LARAS) that can be accessed through <https://laras.ee.its.ac.id/login>

35. SIM INTERNSHIP

For practical work, internship, and field work, students can access it through <https://internship.ee.its.ac.id/login>

36. SIM Surat Online

For reference letter, head of department's signature, and others, students can access through <https://intip.in/PermohonanSuratDTE/>

VI. Support and Assistance

37. Academic Advisor

Every student will be supervised by an academic advisor. Students can consult directly to their academic advisor for discussions regarding their study plan and progress. Students can access SI Akademik => Proses => Formulir Rencana Studi

Kode	Mata Kuliah	GKG	Kuliah	Nilai
EE104502	Lab. Elektronika Dasar: Sistem Tenaga dan Sistem Pengukuran	3	A	*
EE104502	Karya Praktek	2	-	*
EE104701	Dasar-dasar Instalasi Tenaga Listrik	3	2	*
EE104812	Perencanaan Sistem Tenaga Listrik	4	8	*
EE104913	Manajemen dan Kalkulasi Teknologi	3	-	*
EE104913	Manajemen dan Kalkulasi Teknologi	3	16	*
Total GKG			18	

Legenda:
[Merah] mahasiswa mengambil mata kuliah semester atas
[Kuning] mahasiswa mengambil mata kuliah semester di bawah

PERHITUNGAN TELAH DILAKUKAN

38. Academic Service

Academic service is done directly by education staff of EED (field of teaching, practical work, and student affairs), head of study program, department secretary or head of department. Students can also meet faculty staff, dean, or ITS staff of academic.

39. Student Association

Student Association of Electrical Engineering (HIMATEKTRO) has a lot of academic activities, extracurricular, self-development, environmental activity, art, entrepreneurship, etc. Students can directly come to HIMATEKTRO secretariat or access their website <https://arek.its.ac.id/hmee/tentang-kami/>

40. Mental Counseling Service

ITS facilitate their students for a counseling in order to improve their students' mental health and guide them to be an excellent and strong graduate in the professional work. Guidance regarding this facility can be seen in Appendix 40.1.

41. Hotline: Office

Academic service of EED can be accessed through phone, fax, and email below:

DEPARTEMEN TEKNIK ELEKTRO

Fakultas Teknologi Elektro dan Informatika Cerdas
Gedung A, B, C dan AJ, Kampus ITS, Sukolilo, Surabaya 60111
Telp: (031) 5994251-54, Ext. 1206 / (031) 5947302
Fax: (031) 5931237
Email: elits@ee.its.ac.id

42. LO International Student

To facilitate international (foreign) student, in each department a lecturer is assigned to mediate the information of foreign students that are related with the rules and academic process in the department. LO will coordinate with DKG to facilitate issues and necessities of these foreign students.

VII. Internationalisation

43. IUP (International Undergraduate Program)

EED is one of the departments in ITS that has international undergraduate program (IUP). All of the lectures and lab works are done in English.

44. Exchange Student

There are a lot of exchange programs that are coordinated by DKG. This program includes exchange student, sandwich program, internship program, short course program, and etc. Information regarding this program can be accessed through DKG, department and LO EED.

45. Double Degree

EED offers several options of double degree for bachelor degree, master degree and doctoral degree. A few that are on process include:

- Japan: Kumamoto University, Shibaura Institut Technology
- Australia: Curtin University, La-Trobe University
- Netherlands: Fontys University
- Malaysia: Unimap- Perlis, University of Malaya

46. International Research Partner

Several international research partners that have worked or is working together with EED ITS are Auburn University-US, Kumamoto Univ-Japan, KMITL-Thailand and etc.

47. International Achievements

Electrical Engineering Department (EED) is quite active in joining international competitions and activities. Lecturers', student's, and staffs' contributions are very important to achieve and maintain the achievements. Several achievements that are quite well-known is International Robot Competition. Students', lecturers', and department's achievements update can be seen through the department's website: <https://www.its.ac.id/telekro/id/prestasi>

48. International Accreditation

EED is certified by AUN-QA for ASEAN region. In 2020, EED is joining the ASIIN accreditation from Europe. The link that refers to accreditation and certification of EED can be accessed through the department's website:
<https://www.its.ac.id/telektro/id/akademik/program-studi-sarjana/akreditasi/>

VIII. Facilities

49. Classrooms

Pictures and specifications of classrooms can be accessed through the following website:
<https://www.its.ac.id/telektro/id/fasilitas/ruang-kelas/>

50. Laboratory

Information related to laboratory can be accessed through following website:
<https://www.its.ac.id/telektro/id/fasilitas/laboratorium/>

51. General Facilities

Sports, art, and campus environment facilities can be accessed through following website:
<https://www.its.ac.id/telektro/id/fasilitas/fasilitas-olah-raga/>

52. Library

Reference and reading room of EED can be accessed through following website:
<https://www.its.ac.id/telektro/id/fasilitas/ruang-baca-elektro/>

IX. Other Information on Website

53. Electrical Engineering Department Management

Department's functionary, including head of department, department secretary, and head of study program can be seen through following website:
<https://www.its.ac.id/telektro/id/tentang-kami/sambutan-kepala-departemen/>

54. Achievements

Achievements of Electrical Engineering Department can be accessed through following website: <https://www.its.ac.id/telektro/id/prestasi>

55. Students Affair's Data

Average GPA, Graduates GPA, study duration, number of drop-out, number of semester-off students, data mobility (practical work, internship, outbound, and field work), and failure rate.

56. Average credits data taken for each semester (except for 8th semester and above)

57. Survey

Survey of lectures target (CPL) fulfilment, service survey, fresh graduates survey, examinations survey.

X. Quality Assurance

58. External Quality Assurance

Result of external accreditation, including BAN PT and International (AUN-QA, ASIIN) can be seen through the following website:

<https://www.its.ac.id/telektro/id/akademik/program-studi-sarjana/akreditasi/>

59. Internal Quality Assurance

There are 2 type of quality assurance in every study program in ITS. The first is Sistem Penjaminan Mutu Internal (SPMI). SPMI measures department's achievement based on BAN PT and international accreditation body. The scoring is done every year. The second one is Sistem Informasi Perencanaan, Monitoring, dan Evaluasi Program (SIPMONEV) or usually called as Kinerja. The scoring is based on the fulfilment of work target that is determined by the ministry, then to ITS, to the faculty, until the department. Achievement for every year can be seen through following website:

<https://www.its.ac.id/telektro/id/akademik/program-studi-sarjana/internalQA/>

60. Ranking

The result of study program ranking from ITS level (SPMI), national (SINTA, Time Higher Education (THE) Indonesia) and International (THE International) can be seen through following website:

<https://www.its.ac.id/telektro/id/akademik/program-studi-sarjana/peringkat/>

61. Students' Role for Quality Assurance

Students have a very important role in controlling the quality of study program. Several activities that are encouraged to become the feedback and to improve the education quality in the study program are:

- a) Filling the lectures record
- b) Filling the IPD (lecturers' questionnaire)
- c) Feedback via guardian lecturer
- d) Feedback via officer or lecturers
- e) Feedback via executive
- f) Fresh Graduates questionnaire
- g) Graduates questionnaire
- h) Complain form

<https://www.its.ac.id/telektro/id/akademik/program-studi-sarjana/peranmahasiswa/>