

International Student Exchange Program Courses in English Available for Exchange Student													
No.	Faculty	Department / Program Study	Degree	Course Title	Course Code	Credit	Class Code	Term Offered	Campus	Course Description	Day	Time	
1	Economics and Business	Accounting	Undergraduate	Introductory Accounting I	ECAU801101	3		odd	Depok		Monday	08.00 - 10.30	
2	Economics and Business	Accounting	Undergraduate	Introductory Accounting II	ECAU801103	2		odd	Depok		Monday	11.00 - 13.30	
3	Economics and Business	Accounting	Undergraduate	Auditing I	ECAU804101	3		odd	Depok	acts covers the following topics: definition of auditing, types of audit, Public Accountants Professional Standards, codes of conduct and progress of public	Monday	14.00 - 16.30	
4	Economics and Business	Accounting	Undergraduate	Corporate Governance	ECAU801306	3		odd	Depok	This subject provides students an understanding about the definition, the importance, the principles and implementation of corporate governance, as well as an overview to practice and issues of corporate governance in Indonesia. This subject also discusses the role of accounting profession in promoting good corporate governance.	Tuesday	08.00 - 10.30	
5	Economics and Business	Accounting	Undergraduate	Management Accounting	ECAU802103	3		odd	Depok	This course is aimed to help students understanding the roles of accounting in planning, controlling and management decision making. Specifically, the students are expected to be able to explain about budgeting, standard costing, cost volume profit analysis, differential costs, responsibility centers, performance evaluation, transfer pricing, and balanced scorecard.	Tuesday	08.00 - 10.30	
6	Economics and Business	Accounting	Undergraduate	Taxation I	ECAU803101	3		odd	Depok		Tuesday	11.00 - 13.30	
7	Economics and Business	Accounting	Undergraduate	Financial Accounting Theory	ECAU801401	3		odd	Depok	This course is part of the financial accounting core subjects. It discusses the frame of reference that affects financial accounting practices. Understand that the different financial accounting theories are often developed to perform different functions: (1) to describe accounting practices; and (2) to prescribe particular accounting practices. Understand that theories of accounting are developed as a result of applying various value judgements and that acceptance of one theory in preference to others will in part be tied to one's own value judgements. As a consequence, students should critically evaluate theories (the underlying logic, assumptions made and evidence produced) before accepting them. Accounting students should study accounting theories as part of their broader accounting education. They should be able to evaluate, compare, and apply those frames of reference in justifying their arguments and/or solutions addressing the accounting cases. Teaching materials include: introduction and approach to the formulation of accounting theory, accounting theory development, and determination of accounting policies.	Tuesday	11.00 - 13.30	
8	Economics and Business	Accounting	Undergraduate	Intermediate Financial Accounting I	ECAU801201	3		odd	Depok		Wednesday	11.00 - 13.30	
9	Economics and Business	Accounting	Undergraduate	Accounting Information System	ECAU807202	3		odd	Depok		Wednesday	14.00 - 16.30	
10	Economics and Business	Accounting	Undergraduate	Auditing 2	ECAU804103	3		odd	Depok	This course is a part of the Auditing and Assurance Services class which consists of the Auditing 1 and Auditing 2. This course aims to provide understanding of risk-based approach to the audit of financial statements. This course also covers the topics of auditors' report and other services which can be provided by auditors. Based on the understanding of risk and internal control, students are expected to learn how to design the appropriate and relevant audit strategy, audit planning, and audit procedures.	Thursday	08.00 - 10.30	
11	Economics and Business	Accounting	Undergraduate	Cost Accounting	ECAU802101	3		odd	Depok	This course is part of management cluster, which consist of Cost Accounting and Management Accounting. This course is aimed for providing techniques to support management decision making, especially in product costing. Discussion in this course includes cost terminology, flow of inventoriable costs and period costs, calculating cost of goods manufactured and cost of goods sold, cost accumulation systems, cost allocation methods, and inventory management. This course will be a prerequisite for continuing to Management Accounting course (ECAU802103).	Thursday	08.00 - 10.30	
12	Economics and Business	Accounting	Undergraduate	Advanced Financial Accounting 2	ECAU801312	3		odd	Depok	This subject aims to discuss financial accounting aspects in particular circumstances in a company. Specific topics covered are: business combination, accounting for acquisition and investment in other entities, accounting for consolidation, the impact of intercompany transaction on the process of consolidated reporting, changes in parent company ownership, complex ownership structure, consolidated earnings per share (EPS), income tax in consolidated financial statement, and cash flow statement.	Thursday	11.00 - 13.30	
13	Economics and Business	Accounting	Undergraduate	Financial Statement Analysis	ECAU801421	3		odd	Depok	Financial statement analysis focuses on providing framework for using financial statement data in a variety of business analysis and valuation contexts. The effective analysis of a set of financial statements requires an understanding of the economic characteristics and current conditions of a firm's businesses, the particular strategy the firm selects to employ to successfully compete in each of these businesses, and the accounting principles and procedures underlying the firm's financial statement.	Thursday	11.00 - 13.30	
14	Economics and Business	Economics	Undergraduate	Intermediate Microeconomics	ECEU800101	3		odd	Depok	The subject provides deeper insights of the use of microeconomics in understanding the dynamics of modern market mechanism, managerial decision-making, and public policy. As a continuation of Introductory Microeconomics, the subject generally covers the same topics, such as market mechanism, consumer and producer theory, market structure, and market failure. Despite such similarity in topics coverage, Microeconomics utilizes mathematical approach more extensively while also incorporates the impact of time horizon on both managerial decision-making and public policy. The subject also covers topics related to modern world phenomenon, such as pricing by firms with market power, game theory, and competitive strategy. In addition, Microeconomics also explains how equilibrium in both the input and output market leads to general equilibrium.	Monday	08.00 - 10.30	
15	Economics and Business	Economics	Undergraduate	International Economics	ECEU803200	3		odd	Depok	The objective of this course is to equip students with the necessary knowledge and understanding about international economic relations and problems. The course will address theories and policies of international trade, globalization, the international monetary system, the balance of payment, the foreign exchange market, the international institutions, and regional economic integration among countries. Another goal of the subject is to make students familiar with the latest developments in international trade theories and in international economic integration agreements.	Monday	11.00 - 13.30	
16	Economics and Business	Economics	Undergraduate	Intermediate Econometrics	ECEU801302	3		odd	Depok	Tujuan mata kuliah ini mengajarkan berbagai metode lanjutan untuk melakukan estimasi dan dan inferensi statistik pada model-model ekonomi dengan data keral silang cross section, time series, dan data panel. Materi kuliah dibagi menjadi dua bagian besar. Bagian pertama diajarkan pada semester pertama, dan memfokuskan pada metode estimasi dengan pendekatan kuadrat terkecil (least square). Bagian ini terbagi menjadi tiga sub bagian. Sub bagian pertama tinjauan ulang /review metode Ordinary Least Square (OLS), yang membahas asumsi-asumsi yang harus dipenuhi oleh OLS, interpretasi hasil, Isorema Gauss Markov. Sub bagian kedua memuat metode estimasi dengan data time series yang membahas model dengan selang waktu terdistribusi (distributed lagged model), konsep stationerity, unit root, dan cointegration. Sub bagian ketiga memuat metode estimasi dengan data panel. Bagian kedua diajarkan setelah ujian tengah semester dan memfokuskan pada metode estimasi dengan maximum likelihood yang sering digunakan jika variabel terikat bersifat kualitatif (baik dalam bentuk uraian atau tidak) dan terSENSOR. Bagian kedua terdiri dari empat sub topic. Sub topic pertama memuat proses estimasi dengan metode Maximum likelihood untuk linear model. Sub topic kedua membahas model dengan variabel terikat yang bersifat kualitatif (biner). Sub topic ketiga membahas estimasi dengan variabel terikat yang bersifat kualitatif (multinomial), baik yang terurut (ordered) maupun tidak (unordered). Sub topic keempat memuat estimasi dengan variabel terikat yang terpotong/terSENSOR. Selain membahas teori, mata kuliah ini akan mengajarkan penggunaan metode-metode tersebut dengan perangkat lunak EVIEWS dan STATA di laboratorium komputer. Mahasiswa diberikan tugas kelas dan tugas Lab.	Monday	14.00 - 16.30	
17	Economics and Business	Economics	Undergraduate	Introductory Microeconomics	ECEU800100	3		odd	Depok	The subject begins with the introduction of the scope, methods, and principles of economics, followed by the description of basic economic problem and major economic issues. The topics covered in the subject then narrow to the introduction of basic microeconomic theory and concepts and their use to help individuals understanding the working of the economy and the rationale behind each economic agent's actions. Students taking this subject will learn the basic determinants of demand and supply and their interaction to form equilibrium price and quantity. Then, the subject moves to the introduction of consumer behavior and utility optimization to explain the rationale behind the consumers' economic preference, while also introduces the relationship between production and costs that underlines the rationale behind the producers' objective to gain optimum profit. Finally, the subject covers the interaction between the firm, which represents the supply side, and the household, which represents the demand side, in various market structures and how this interaction affects the attainment of profits.	Tuesday	08.00 - 10.30 or 14.00-16.30	
18	Economics and Business	Economics	Undergraduate	Development Economics	ECEU802002	3		odd	Depok	The objective of this course is to equip students with basic concepts in economic development as well as their understanding about issues on development problems and policies. The course will be organized in three parts. The first part is theories which cover principles and concepts of economic development. Then, it followed by problems and policies both at domestic and international perspectives. These last two parts discuss major set of problems such as poverty and inequality, population growth, urbanization, environmental decay, agricultural transformation at domestic perspective. Lastly, there will be three discussion at international perspective on international trade and development strategy: balance of payment, debt management and macroeconomic stability; and foreign finance and aid controversies	Tuesday	11.00 - 13.30	
19	Economics and Business	Economics	Undergraduate	Economic Modelling	ECEU801002	3		odd	Depok	This subject is aimed to help students to do economic analysis and to provide some alternatives of economic modeling which are proper to objectives and problems in economy. Economic modeling discusses utilization of several economic modeling and emphasizes basic mathematical modeling besides econometrics as an analytical tool. Taking this subject, students are expected to be able to apply the alternatives of economic modeling which is suitable with the objectives and economic problems in their final paper	Tuesday	14.00 - 16.30	

20	Economics and Business	Economics	Undergraduate	Public Sector Economics	ECEU605100	3	odd	Depok	This course is designed to give undergraduate students basic knowledge on the theories of public sector. It covers the issues of the role of public sector in economy, the role of government and private institutions in public goods provision, economic interactions between public and private sectors, and decisions on economic and public policy regarding the role and interactions in the economy.	Tuesday	14.00 - 16.30
21	Economics and Business	Economics	Undergraduate	Economic Research Methods	ECEU601001	3	odd	Depok	Research design will respond to the following areas: What is the topic as a problem statement which is explored in a research. Problem statement is expected to be arrived with a critical thinking through academic activity, such as reading and lecturing. Area of research topic covers not only theoretical problem, but also the empirical one. Student need to search about the importance why problem statement is proposed to the research design. It is supposed to be a contemporary issue. Library research is put into a summary and it will be concluded as a research objective. This part is the basic aspect of the course which is proposed by a researcher. It explains how is the way to construct and develop the research. Researcher ought to propose a research framework and model, then explain it into an operational definition. An operational definition consists of design for data and unit of analysis. It also describe about data source, data collection as well as relevant sample. The last part, furthermore, portrays a detailed illustration about the following research analysis.	Tuesday	14.00 - 16.30
22	Economics and Business	Economics	Undergraduate	Statistics for Economics and Business I	ECEU601200	3	odd	Depok	conomics, the social sciences and business. She/he should also be able to read more critically about these subjects, using the statistical knowledge gained in	Wednesday	08.00 - 10.30 or 14.00-16.30
23	Economics and Business	Economics	Undergraduate	Mathematics for Business and Economics II	ECEU601101	3	odd	Depok	This course focuses more on performing dynamic analysis. It will help students understand and know how to evaluate the dynamic nature of certain economic models and theories. Basic mathematical concepts such as derivative and integral will again be employed. Moreover, optimization analysis is also discussed and practiced further with the extension on doing the optimization with inequality constraint.	Wednesday	11.00 - 13.30
24	Economics and Business	Economics	Undergraduate	Islamic Economics and Finance	ECEU602062	3	odd	Depok	This course aims to help students understanding the Islamic financial and monetary economics and to differ it from conventional financial and monetary system. This course covers Islamic financial aspects, for instance rationalization and the impacts of riba and gharar prohibition, Islamic funding alternatives, and current issues in Islamic finance and banking. This course also discusses the aspects of Islamic Monetary, such as money and inflation in Islam, the functions and roles of monetary policies in Islamic economics, and sharia monetary instrument based monetary management by the central bank.	Wednesday	14.00 - 16.30
25	Economics and Business	Economics	Undergraduate	Economic System	ECEU602005	3	odd	Depok	Economic is a complex and dynamic system that include not only economic actors and institutions but also socio-political institutions (including religious influence) that change over time. There is not one economic system that every countries in the world must adhere to at all time. Instead, currently there are various economic systems in different country and regions that actively operating with diverse outcomes. Economic system also change over time. This course will examine economic system by ideas (capitalism, socialism and religion-inspired), sectors (primary, manufacturing and finance/service) and cases (Anglo-Saxon, Continental Europe, Nordic, East Asia, China and India) to propose improvements to Indonesia economic system. This is an advance course that expect students to absorb significant reading materials and to do frequent analysis presentation.	Thursday	08.00 - 10.30
26	Economics and Business	Economics	Undergraduate	Mathematics for Business & Economics I	ECEU601100	3	odd	Depok	This course covers both concepts and techniques in mathematics which are relevant in economics, finance, and business. It is intended to help students understand economics theories and perform certain economic analysis. Topics such as linear model and matrix algebra, derivative, integral, and optimization will be discussed and practiced in a broad range of economic analysis framework.	Thursday or Wednesday	11.00 - 13.30
27	Economics and Business	Economics	Undergraduate	Industrial Economics	ECEU604100	3	odd	Depok	This course applies microeconomic analysis to the study of firm strategies and industry behavior, with special emphasis on those horizontal and vertical interactions that have been subject to antitrust scrutiny. Specific examples include price fixing, mergers, tying contracts, exclusive dealer and territorial arrangements, price discrimination, boycotts and reciprocity, and various predation strategies. Doctrinal disputes are explored and specific cases studied in light of the academic literature in industrial organization.	Thursday	11.00 - 13.30
28	Economics and Business	Economics	Undergraduate	Introductory Macroeconomics	ECEU600200	3	odd	Depok	The subject begins with an overview that shows links between the microeconomic and the macroeconomic analysis, the scope of macroeconomics, the introduction of macroeconomic variables and indicators, and the identification of general macroeconomic issues. Then, the subject introduces goods market and money market and their interaction in a closed economy to determine equilibrium in interest rate and output. The subject continues with the derivation of both aggregate demand and aggregate supply and their interaction to determine equilibrium in price level and output, both in the short-run and in the long-run. Finally, the subject introduces students with the interaction of aggregate demand and aggregate supply in the open economy by taking into account international trade and exchange rate system. Throughout the course of the subject students are introduced to basic macroeconomic policy instruments, i.e. fiscal policy and monetary policy, and their use to fine-tune the economy.	Thursday	14.00 - 16.30
29	Economics and Business	Economics	Undergraduate	Statistics for Economics and Business II	ECEU601201	3	odd	Depok	design of his/her own studies, and analyzing data from their study. The material covered in this course will go beyond descriptive statistics by expanding	Friday	08.00 - 10.30
30	Economics and Business	Economics	Undergraduate	Intermediate Macroeconomics	ECEU600201	3	odd	Depok	This course aims to equip students with a more comprehensive and in-depth understanding of the relationship among various macroeconomic variables and how macroeconomic policies can be used to fine-tune the economy. At this intermediate level, the utilization of mathematical approach is significantly higher than the introductory level. Hence, students should have already possessed sufficient understanding of the basic macroeconomic concepts and theories. The course will cover the interaction of goods market and financial market in the short-run, the addition of labor market to form the AS-AD model in the medium-run, the role of economic growth in the long-run, the role of exchange rates in the open economy and the role and the effectiveness of macroeconomic policies to fine-tune the economy. Throughout the entire course, students will be required to do small exercises using real macroeconomic data and information that they have to analyze. This will help students understanding how the macroeconomic mechanism works and how sufficient understanding on the real-life macroeconomic phenomenon and policies will help better decision making, even for students who do not want to be economists	Friday	14.00 - 16.30
31	Economics and Business	Management	Undergraduate	CSR and Business Ethics	ECMU601089	3	odd	Depok	The relationship between business and society is a problem that is continuously questionable. That is, to what extent the companies should get involved and become part of community life. Assuming that the company is an open system, the company in today's interaction with the environment is getting more intense in which firms are located. Citizens are also increasingly concerned to corporate behavior and activities, so that companies today must not only be oriented to the consumers' needs but also pay attention to and take into account their stakeholder not just their shareholder. The stakeholder orientation lead that if the company want to continue its operations the company will need to consider the interaction and inter-relationships with the outside environment where the company is located. Further consequences, is that in running each function of business, companies are challenged to integrate external demand, which determines the existence of the company itself. This course provides students the basics of business ethics and brings students to understand the complexity of the company's relationship with the community related to corporate social responsibility. Students are also expected to understand that there is a polemic in Indonesia, including the most recent Act on Limited Liability Companies.	Monday	08.00 - 10.30
32	Economics and Business	Management	Undergraduate	Introductory Business	ECMU601001	3	odd	Depok	will be introduced to various business functions in corporations such as Human Resource, Operations, Marketing and Finance. This subject requires holistic	Monday	11.00 - 13.30
33	Economics and Business	Management	Undergraduate	Operation Management	ECMU605011	3	odd	Depok	Operations Management is a discipline that applies to services as well as manufacturing/factories. The production of goods and services requires operations management. The efficient production of goods and services requires effective application of concepts, tools and techniques of operation management.	Monday	11.00 - 13.30
34	Economics and Business	Management	Undergraduate	Logistic and Supply Chain Management	ECMU605081	3	odd	Depok	The course explores the key issues associated with the design and management of the supply chain. Supply chain management is a set of approaches utilized to efficiently integrate suppliers, manufacturers, warehouses, and stores, so that merchandise is produced and distributed at the right quantities, to the right locations, and at the right time. One of the primary objectives of supply chain management is to minimize the total supply chain costs while still satisfying various service requirements	Monday	14.00 - 16.30
35	Economics and Business	Management	Undergraduate	Business Feasibility Studies	ECMU601046	3	odd	Depok	This subject encourages students : (1) to generate ideas in creating new business for small, medium and big scale; (2) to explain practical application tools as well as how to assess business feasibility by considering financial, marketing, operation and human resources aspect (3) to establish an actual business feasibility through activities, such as: survey and business simulation. Students' participation in discussion and group assignment will mainly work to finalize the analysis and report.	Monday	14.00 - 16.30
36	Economics and Business	Management	Undergraduate	Introductory Marketing	ECMU603005		odd	Depok		Tuesday	11.00 - 13.30
37	Economics and Business	Management	Undergraduate	Business Research Method	ECMU601014	3	odd	Depok	This course discusses about the stages of conducting research, starting from the preparation of research design, conducting research, data processing, to capturing the conclusions of the research. Compilation of good research design would lead researchers to answer the research question and achieve the purpose of research into reasons to do research. This subject also learn about several methods of research and its benefits, so that researchers can adjust their time limit and budget constraint without sacrificing its quality research studies through validity and reliability.	Tuesday	14.00 - 16.30

38	Economics and Business	Management	Undergraduate	Introductory Management Science	ECMU601007	3		odd	Depok	Management Science assists decision makers in business organizations, the government as well individuals in solving their problems. Management Science also plays a significant role in resolving resources allocation problem when resources are scarce and thus, becoming the constraints. Management science is also called as operations research, quantitative methods, quantitative analysis and decision science. This course will cover several management science techniques that are important and relevant with the needs and implementation of decision-making. One of the technique that will be discussed in class is mathematical programming. This technique can be used to find an optimum solution when constraints (usually resource constraints) are present.	Tuesday	14.00 - 16.30
39	Economics and Business	Management	Undergraduate	Business Communication	ECMU601056	3		odd	Depok	The primary objective of this course is to introduce students to the various forms of communications that are helpful in real-life business situations and personal life. Business Communication introduces concepts and strategies for different business situations including memo, letters, presentations, reports and technology based communications. Using a developmental approach to communications, the course applies methods for organizing ideas, analyzing data, addressing diverse concerns, presenting information, and developing a professional style communication.	Tuesday	14.00 - 16.30
40	Economics and Business	Management	Undergraduate	Portfolio Management	ECMU602045	3		odd	Depok	This course discusses about the process of analysis, creation, optimization, and performance measurement of financial assets portfolio. After taking this subject, students are expected to form a particularly simple initial portfolio in stocks and bonds (e.g. in the framework of the establishment of a mutual fund) based on actual data (data derived from the stock exchanges in Indonesia)	Wednesday	08.00 - 10.30
41	Economics and Business	Management	Undergraduate	Managerial Decision Making	ECMU601024	3		odd	Depok	The course will help students to identify the different categories and situations, to determine the proper decision making approach, to calculate cost and benefit of any additional information, to understand the basic game theory, and to be a facilitator in a group decision making process. It discusses the decision-making techniques under uncertainty, the evaluation of cost and benefit for additional information, and the basic qualitative decision analysis for complex situations, which involve multi objectives, uncertainty and multi participants.	Wednesday	11.00 - 13.30
42	Economics and Business	Management	Undergraduate	International Financial Market and Institutions	ECMU602008	3		odd	Depok	This subject will introduce students to various financial institutions in the global context, performance and risk evaluation as well as financial markets and instruments in Indonesia and other countries. Students will also be provided with the basics of central bank practices and issues.	Wednesday	11.00 - 13.30
43	Economics and Business	Management	Undergraduate	Marketing Research	ECMU603044			odd	Depok	This course is a continuation of business research methods course which will discuss the application of the concept of the overall marketing research process and marketing activities, whether research that aims to identify problems and research to solve problems.	Wednesday	14.00 - 16.30
44	Economics and Business	Management	Undergraduate	Consumer Behavior	ECMU603012	3		odd	Depok	aims to examine the behavioural concepts and theories relating to understanding consumers' purchase behaviour and their decision making process. It also discusses the influence of factors such as family, social groups, social class, culture and subculture, motivation and needs, perception, learning, personality and lifestyle attitudes toward consumers' purchase behaviour and decision making. Students will explore concepts and theories associated with the behavioural sciences, which can be used to: Understand how consumers behave in the marketplace. Understand how it may be possible to predict buying behaviour. Explore whether it is possible to influence buying behaviour. Understand how information about buying behaviour may be used to help develop appropriate marketing strategies	Thursday	08.00 - 10.30
45	Economics and Business	Management	Undergraduate	Entrepreneurship	ECMU601050	3		odd	Depok	This student centered learning course is aimed to develop the students' understanding in the theoretical and empirical based of the field of entrepreneurship. Bear in mind that entrepreneurship as a field of study is really quite young, though it's existence as old as human history. Entrepreneurship is the dynamic process of creating incremental wealth. Others scholars define as process of creating something new and assuming the risks and rewards. All agreed that the wealth and reward are created by individuals who assume the major risks in terms of equity, time, and/or career commitment of organizing and providing value for some product or service. Entrepreneurship activities requires energy and passion towards the creation and implementation of new ideas and creative solutions. These comprised of the willingness to take calculated risks (in terms of time, equity, or career); the ability to formulate and organize an effective venture team; the ability to adopt the creative skill in assembling needed resources; understanding the benefits of building a feasible business plan; and, finally, the vision to recognize opportunity of various future facilities where others see as un-wanted changes, chaos, contradiction, and confusion Within the subject of developing the entrepreneurship sciences, FEUI is taking the courage to set a target of creating real benefit consistently concluded by our students, entrepreneurs and policy makers	Thursday	11.00 - 13.30
46	Economics and Business	Management	Undergraduate	International Business	ECMU601023	3		odd	Depok	This course provides understanding for students about international business practices especially the challenges and opportunities, understand strategy alternatives that are available and the elements that must be managed so that the best decision can be made in facing global competition. Several main topics of discussion include investment environment and global trade, political economy, foreign direct investment, regional economic integration, international financial system, international business structure and strategy, as well as all management functions at an international scale.	Thursday	11.00 - 13.30
47	Economics and Business	Management	Undergraduate	Corporate Finance	ECMU602004	3		odd	Depok	Corporate Finance introduces students to the process of financial managers in making decisions and corporate governance its implications on corporate performance. Students will also be introduced to corporate governance in modern corporations. Topics to be covered in this course will include: measuring corporate performance, financial forecasting, planning & budgeting; working capital management; time value of money; risk and return; cost of capital; assets (stocks and bonds) valuation; capital budgeting/corporate investment; corporate governance; capital structure decisions; and dividend policy. Course concepts are integrated into the standard theories of risk and return, valuation of assets and capital structure.	Thursday	14.00 - 16.30
48	Economics and Business	Management	Undergraduate	International Marketing	ECMU603026	3		odd	Depok	This course aims to discuss how to organize marketing across the border, why it needs to be done, problems faced, what should be done and how to do it, so marketing to foreign countries can be implemented effectively, thanks to the understanding of the environmental differences.	Thursday	14.00 - 16.30
49	Economics and Business	Management	Undergraduate	Strategic Management	ECMU601047	3		odd	Depok	This course offers basic origin of the strategic management and strategic planning model. This course emphasize on the understanding and student capabilities to answer what, where, when, why, and how question regarding to strategic management issues. The strategic planning model plot includes the following pattern: • Vision and Mission; • External Assessment- Internal Assessment- Introduction to Business Strategy • Strategy Formulation and Decision; • Portfolio approach • Strategy Decision • Strategy Application • Evaluation • Ethical issues • Globalization issues. Analysis tools that will be discussed are External Factor Evaluation (EFE) Matrix; Competitive Profile Matrix (CPM); Internal Factor Evaluation (IFE) Matrix; Strength/Weakness, Opportunity, Threat Matrix; SPACE Matrix; Internal-External (IE) Matrix, and Balance Scorecard.	Friday	08.00 - 10.30
50	Economics and Business	Management	Undergraduate	Security Analysis	ECMU602028	3		odd	Depok	The main objective of Security Analysis course is to expose the participants to the valuation and investments process of financial assets. Besides discussing the valuation of financial instruments such as stocks, bonds, and derivatives, the course will also briefly cover the relevant contexts of financial investments in Indonesia, including its institutions and macroeconomic environments. Students are expected to read the subject materials prior to attending the class. While in the class, students are expected to actively contribute to class discussions. Students who take this subject are anticipated to understand the following concepts and techniques: 1. The characteristics of different financial assets; 2. Financial investments environment in Indonesia; 3. The impact of international and domestic macroeconomic conditions on financial markets and assets; 4. Valuation process of bonds, stocks, and derivatives; 5. Assessment of mutual fund performance	Friday	08.00 - 10.30
51	Economics and Business	Management	Undergraduate	Human Resources Management	ECMU604009	3		odd	Depok	This subject covers all fundamental concepts of human resources (HR) management. It will discuss the theories of strategic HR, job analysis, recruitment, selection, orientation process in a company, training and development, performance appraisal, managing careers, and compensation management.	Wednesday or Friday	08.00 - 10.30 or 14.00-16.30
52	Economics and Business	Management	Undergraduate	Introductory Business Law	ECMU601003	3		odd	Depok	Economic and Business Law in Indonesia deals with positive business law in Indonesia that should be understood by economics students. This subject uses a practical approach, i.e. students are to understand law and legislation that closely related to economy and business practice. The subject introduces basic knowledge of the science of law, and related legislations that students are required to understand for their economics study or practice.	Friday	14.00 - 16.30
53	Economics and Business	Accounting	Undergraduate	Intermediate Financial Accounting II	ECAU601203	3		even	Depok	This course covers the record, presentation, and disclosure of financial reporting on long-term liability accounts, equity accounts, and investment accounts. Included in this course are the concepts of taxation, post-retirement benefits, leasing, revenue recognition, accounting changes and analysis of accounting errors, statement of cash flows, financial statement analysis and disclosure of financial information. Discussion of cases on ethics in accounting will also be conducted.	Monday	08.00 - 10.30
54	Economics and Business	Accounting	Undergraduate	Introductory Accounting II	ECAU601103	2		even	Depok	This subject continues the introduction of accounting concepts studied at Introductory Accounting I. It will discuss the use and preparation of financial statement, accounting techniques and procedures introduced at Introductory Accounting I. This course will presents the detail in short term and long-term liabilities, Equities, Accounting for Corporation, and the Statements of Cash Flows.	Monday	11.00 - 13.30
55	Economics and Business	Accounting	Undergraduate	Taxation II	ECAU603106	3		even	Depok		Tuesday	08.00 - 10.30

56	Economics and Business	Accounting	Undergraduate	Financial Accounting Theory	ECAU601401	3	even	Depok	This course aims to discuss frame of reference which influence and explain a fundamental of financial accounting practice. Various of those reference might have been inconsistently explained and concluded among them. Lecturing material consists of introduction and approach for accounting theory formulation, its revolution as well as the application of accounting policy.	Tuesday	11.00 - 13.30
57	Economics and Business	Accounting	Undergraduate	Management Information System	ECAU607201	3	even	Depok	This course is designed to make students understand the goal, term, content and basic concepts of Management Information. How information systems may be used, developed, and managed to support the operational, tactical and strategic decision-making activities and operations of organizations.	Tuesday	11.00 - 13.30
58	Economics and Business	Accounting	Undergraduate	Corporate Governance	ECAU601306	3	even	Depok	This course aims to provide the definition of corporate governance, the argument of corporate governance, principles and implementations of corporate governance, as well as the implementation of corporate governance in Indonesia. The discussion will mainly revolve around the role of accountants in achieving good corporate governance.	Tuesday	14.00 - 16.30
59	Economics and Business	Accounting	Undergraduate	Cost Accounting	ECAU602101	3	even	Depok	This subject discusses the meaning, purposes, and coverage of Cost Accounting, as well as the record and calculation technique of cost. This subject covers the basic concept of cost, cost behavior, cost of product, cost accumulation, process and job order costing, joint cost, cost management (material, labor, and overhead), and other related concepts.	Wednesday	08.00 - 10.30
60	Economics and Business	Accounting	Undergraduate	Introduction Accounting I	ECAU601101	3	even	Depok		Wednesday	11.00 - 13.30
61	Economics and Business	Accounting	Undergraduate	Financial Statement Analysis	ECAU601421	3	even	Depok	Financial statement analysis focuses on providing framework for using financial statement data in a variety of business analysis and valuation contexts. The effective analysis of a set of financial statement requires an understanding of the economic characteristics and current conditions of a firm's businesses, the particular strategy the firm selects to employ to successfully compete in each of these businesses, and the accounting principles and procedures underlying the firm's financial statement.	Wednesday	11.00 - 13.30
62	Economics and Business	Accounting	Undergraduate	Global Business	ECAU609104	2	even	Depok	This subject aims to introduce students about what, why, and how international business is. It addresses the introduction of globalization issues, international market condition and situation, as well as perspectives to manage business in the international market.	Wednesday	14.00 - 16.30
63	Economics and Business	Accounting	Undergraduate	Auditing 2	ECAU604103	3	even	Depok	Mata ajaran ini membahas penyusunan program audit terhadap berbagai macam transaksi, pelaksanaan program audit dan pelaporan hasil audit yang meliputi sampling dari pengujian yang substantif untuk saldo dalam siklus pendapatan, kas produksi, dan pengeluaran serta perhitungan laba rugi dan laporan hasil audit.	Thursday	08.00 - 10.30
64	Economics and Business	Accounting	Undergraduate	Advanced Financial Accounting II	ECAU601312	2	even	Depok	This subject aims to discuss financial accounting aspects in particular circumstances in a company. Specific topics covered are: business combination, accounting for acquisition and investment in other entities, accounting for consolidation, the impact of intercompany transaction on the process of consolidated reporting, changes in parent company ownership, complex ownership structure, consolidated earnings per share (EPS), income tax in consolidated financial statement, and cash flow statement.	Thursday	11.00 - 13.30
65	Economics and Business	Accounting	Undergraduate	Management Accounting	ECAU602103	3	even	Depok	This course is aimed to help students understanding the roles of accounting in planning, controlling and management decision making. Specifically, the students are expected to be able to explain about budgeting, standard costing, cost volume profit analysis, differential costs, responsibility centers, performance evaluation, transfer pricing, and balanced scorecard.	Thursday	11.00 - 13.30
66	Economics and Business	Accounting	Undergraduate	Accounting Research Methods	ECAU609106	3	even	Depok	The subject aims to help students to understand the concepts and benefits of the research, research tools and understand how to use the tools, and be able to conduct scientific research in the field of accounting. Specifically students will learn about the research process that starts at how to define the problem, review the literature, develop a framework, formulate hypotheses, collect and analyze data, and prepare research reports	Friday	08.00 - 10.30
67	Economics and Business	Economics	Undergraduate	Introductory Macroeconomics	ECEU600200	2	even	Depok	The subject begins with an overview that shows links between the microeconomic and the macroeconomic analysis, the scope of macroeconomics, the introduction of macroeconomic variables and indicators, and the identification of general macroeconomic issues. Then, the subject introduces goods market and money market and their interaction in a closed economy to determine equilibrium in interest rate and output. The subject continues with the derivation of both aggregate demand and aggregate supply and their interaction to determine equilibrium in price level and output, both in the short-run and in the long-run. Finally, the subject introduces students with the interaction of aggregate demand and aggregate supply in the open economy by taking into account international trade and exchange rate system. Throughout the course of the subject students are introduced to basic macroeconomic policy instruments, i.e. fiscal policy and monetary policy, and their use to fine-tune the economy.	Monday	08.00 - 10.30
68	Economics and Business	Economics	Undergraduate	Introductory Econometrics	ECEU601301	3	even	Depok	This course gives basic about economic modeling and empirical solution for economic problems. The topics covered are linear regression models with random regressors, method of moments and instrumental variables estimation; simultaneous equations models; models for time-series data; introduction to maximum likelihood estimation; models for discrete dependent variables and when time permit, models for panel data. This course will introduce you on leading empirical solution for economic problem with statistical theory and mathematical theorem. R Statistical software is used to carry out data analysis and estimation. The objectives of this course will help students develop economic theory and forecast and economic data based on the theory.	Monday	08.00 - 10.30
69	Economics and Business	Economics	Undergraduate	Economic Research Method	ECEU601001	3	even	Depok	Research design will respond to the following areas: What is the topic as a problem statement which is explored in a research. Problem statement is expected to be arrived with a critical thinking through academic activity, such as reading and lecturing. Area of research topic covers not only theoretical problem, but also the empirical one. Student need to search about the importance why problem statement is proposed to the research design. It is supposed to be a contemporary issue. Library research is put into a summary and it will be concluded as a research objective. This part is the basic aspect of the course which is proposed by a researcher. It explains how is the way to construct and develop the research. Researcher ought to propose a research framework and model, then explain it into an operational definition. An operational definition consists of design for data and unit of analysis. It also describe about data source, data collection as well as relevant sample. The last part, furthermore, portrays a detailed illustration about the following research analysis.	Monday	11.00 - 13.30
70	Economics and Business	Economics	Undergraduate	Public Finance	ECEU605101	3	even	Depok	This course focuses on national income using the theories of Public Sector Economics in the real national situation. Generally, it discusses the public sector funding that gives negative impact as burden or DWL (Dead weight loss) on society: individuals, households, and companies. The Public Sector Economics also analyze the government budgeting such as an income and expenses. On the income side more elaboration on the source such as taxation, and other income. The more detail on the source of tax will tax place in the public finance studying. Whilst on the expenditure side, more elaboration will take place using the Indonesian Government Budget, Australian Government Budget and The U.S Government Budget	Monday	11.00 - 13.30
71	Economics and Business	Economics	Undergraduate	Introductory Macroeconomics	ECEU600200		even	Depok	The subject begins with an overview that shows links between the microeconomic and the macroeconomic analysis, the scope of macroeconomics, the introduction of macroeconomic variables and indicators, and the identification of general macroeconomic issues. Then, the subject introduces goods market and money market and their interaction in a closed economy to determine equilibrium in interest rate and output. The subject continues with the derivation of both aggregate demand and aggregate supply and their interaction to determine equilibrium in price level and output, both in the short-run and in the long-run. Finally, the subject introduces students with the interaction of aggregate demand and aggregate supply in the open economy by taking into account international trade and exchange rate system. Throughout the course of the subject students are introduced to basic macroeconomic policy instruments, i.e. fiscal policy and monetary policy, and their use to fine-tune the economy.	Monday	14.00 - 16.30
72	Economics and Business	Economics	Undergraduate	Introductory Microeconomics	ECEU600100		even	Depok	The subject begins with the introduction of the scope, methods, and principles of economics, followed by the description of basic economic problem and major economic issues. The topics covered in the subject then narrow to the introduction of basic microeconomic theory and concepts and their use to help individuals understanding the working of the economy and the rationale behind each economic agent's actions. Students taking this subject will learn the basic determinants of demand and supply and their interaction to form equilibrium price and quantity. Then, the subject moves to the introduction of consumer behavior and utility optimization to explain the rationale behind the consumers' economic preference, while also introduces the relationship between production and costs that underlines the rationale behind the producers' objective to gain optimum profit. Finally, the subject covers the interaction between the firm, which represents the supply side, and the household, which represents the demand side, in various market structures and how this interaction affects the attainment of profits.	Monday	14.00 - 16.30
73	Economics and Business	Economics	Undergraduate	Public Sector Economics	ECEU605100	3	even	Depok	This course is designed to give undergraduate students basic knowledge on the theories of public sector. It covers the issues of the role of public sector in economy, the role of government and private institutions in public goods provision, economic interaction between public and private sectors, and decisions on economic and public policy regarding the role and interactions in the economy.	Tuesday	08.00 - 10.30
74	Economics and Business	Economics	Undergraduate	International Economics	ECEU603200	3	even	Depok	The objective of this course is to equip students with the necessary knowledge and understanding about international economic relations and problems. The course will address theories and policies of international trade, globalisation, the international monetary system, the balance of payment, the foreign exchange market, the international institutions, and regional economic integration among countries. Another goal of the subject is to make students familiar with the latest developments in international trade theories and in international economic integration agreements.	Tuesday	08.00 - 10.30

75	Economics and Business	Economics	Undergraduate	Monetary Economics	ECEU603100	3	even	Depok	This course gives basic monetary theory. Basic knowledge such as the relationship between industrial sector and monetary sector, the link between macroeconomic variable to monetary change. Monetary policy system will be observed and discuss intensively. This course will also discuss monetary institutions and how will they affect monetary variables.	Tuesday	11.00 - 13.30
76	Economics and Business	Economics	Undergraduate	Mathematics for Economics & Business II	ECEU601101		even	Depok	This course gives basic monetary theory. Basic knowledge such as the relationship between industrial sector and monetary sector, the link between macroeconomic variable to monetary change. Monetary policy system will be observed and discuss intensively. This course will also discuss monetary institutions and how will they affect monetary variables.	Tuesday	14.00 - 16.30
77	Economics and Business	Economics	Undergraduate	Statistics for Economics and Business II	ECEU601201	3	even	Depok	This is an intermediate course of statistics for economics and business that is designed for students that have successfully completed the prerequisite statistics for economics and business-1 (ECON 1120). This course presents experiences designed to assist the students in ways of understanding the results section of research articles, recognizing the appropriate use of statistics, critiquing a study's design, planning the design of his/her own studies, and analyzing data from their study. The material covered in this course will go beyond descriptive statistics by expanding through inferential statistics. Also, qualitative statistical methods will be introduced. Practice in class and at home will be integrated into this course. The delivery approach will be more problematic solving, allowing everyone the opportunity to full immerse themselves into discussions and explanations. This approach will closely simulate the environments and daily use of statistical information for business and economics. The material covered in this course will go beyond descriptive statistics by expanding through inferential statistics. Also, qualitative statistical methods will be introduced. Practice in class and at home will be integrated into this course. The delivery approach will be more problematic solving, allowing everyone the opportunity to full immerse themselves into discussions and explanations. This approach will closely simulate the environments and daily use of statistical information for business and economics.	Tuesday or Wednesday	14.00 - 16.30
78	Economics and Business	Economics	Undergraduate	Academic Writing	ECEU602071	3	even	Depok	The course teaches about the convention of academic writing. Students will learn and practice how to write an arguable claim and support the idea with argument, reference, or evidence which are systematically developed through appropriate sentences and paragraphs. They will also be introduced with specific rules in academic writing that have to be followed. With topics in each writing assignment are mostly economics related, at the end of the course, the students are expected to have the ability to write scientific economic article, essay, paper, and also economic thesis in particular. The class activities are emphasizing on writing exercise by students during the course for the whole semester. Feedback from lecture and discussion session will always be provided for students on each writing assignment to help them improve their writing technique and their awareness on the basic writing rules as well as the academic writing rules.	Wednesday	08.00 - 10.30 or 14.00-16.30
79	Economics and Business	Economics	Undergraduate	Advanced Macroeconomics	ECEU600202	3	even	Depok		Wednesday	11.00 - 13.30
80	Economics and Business	Economics	Undergraduate	Economics Modeling	ECEU601002		even	Depok	This subject is aimed to help students to do economic analysis and to provide some alternatives of economic modeling which are proper to objectives and problems in economy. Economic modeling discusses utilization of several economic modeling and emphasizes basic mathematical modeling besides econometrics as an analytical tool. Taking this subject, students are expected to be able to apply the alternatives of economic modeling which is suitable with the objectives and economic problems in their final paper.	Wednesday	14.00 - 16.30
81	Economics and Business	Economics	Undergraduate	Intermediate Microeconomics	ECEU600101	3	even	Depok	This subject is aimed to help students to do economic analysis and to provide some alternatives of economic modeling which are proper to objectives and problems in economy. Economic modeling discusses utilization of several economic modeling and emphasizes basic mathematical modeling besides econometrics as an analytical tool. Taking this subject, students are expected to be able to apply the alternatives of economic modeling which is suitable with the objectives and economic problems in their final paper.	Wednesday	14.00 - 16.30
82	Economics and Business	Economics	Undergraduate	Indonesian Economy	ECEU602003	3	even	Depok	This is designed to give a comprehensive understanding about Indonesian economy. The topics will be ranged from macroeconomic account, economic transformation, and some specific sectoral issues in Indonesian economy. The student should understand Indonesian economy through the data by exploring the concepts and data of macroeconomic accounts in Indonesia. Economic transformation will give a brief understanding of the process accumulation, allocation, and distribution of Indonesian economy during the Indonesian economic development. Some specific sectoral issues problems and policies will be delivered to give a better understanding on the Indonesian economy from multi perspectives.	Thursday	08.00 - 10.30 or 14.00-16.30
83	Economics and Business	Economics	Undergraduate	Industrial Economics	ECEU604100	3	even	Depok	This course applies microeconomic analysis to the study of firm strategies and industry behavior, with special emphasis on those horizontal and vertical interactions that have been subject to antitrust scrutiny. Specific examples include price fixing, mergers, tying contracts, exclusive dealer and territorial arrangements, price discrimination, boycotts and reciprocity, and various predation strategies. Doctrinal disputes are explored and specific cases studied in light of the academic literature in industrial organization	Thursday	11.00 - 13.30
84	Economics and Business	Economics	Undergraduate	Intermediate Econometrics	ECEU601302		even	Depok	Tujuan mata kuliah ini mengajarkan berbagai metode lanjutan untuk melakukan estimasi dan dan inferensi statistik pada model-model ekonomi dengan data kerat silang <i>cross section</i> , <i>time series</i> , dan <i>data panel</i> . Materi kuliah dibagi menjadi dua bagian besar. Bagian pertama diajarkan pada setengah semester pertama, dan memfokuskan pada metode estimasi dengan pendekatan kuadrat terkecil (least square). Bagian ini terbagi menjadi tiga sub bagian. Sub bagian pertama tinjauan ulang /review metode Ordinary Least Square (OLS), yang membahas asumsi-asumsi yang harus dipenuhi oleh OLS, interpretasi hasil, teorema Gauss Markov. Sub bagian kedua memuat metode estimasi dengan data time series yang membahas model dengan selang waktu terdistribusi (distributed lagged model), konsep stationerity, unit root, dan cointegration. Sub bagian ketiga memuat metode estimasi dengan data panel. Bagian kedua diajarkan setelah ujian tengah semester dan memfokuskan pada metode estimasi dengan maximum likelihood yang sering digunakan jika variabel terikat bersifat kualitatif (baik dalam bentuk urutan atau tidak) dan tersensor. Bagian kedua terdiri dari empat sub topic. Sub topic pertama memuat proses estimasi dengan metode Maximum likelihood untuk linear model. Sub topic kedua membahas model dengan variabel terikat yang bersifat kualitatif (biner). Sub topic ketiga membahas estimasi dengan variabel kualitatif lebih dari dua kategori (multinomial), baik yang terurut (ordered) maupun tidak (unordered). Sub topic ketiga memuat estimasi dengan variabel terikat yang terpotong/tersensor. Selain membahas teori, mata kuliah ini akan mengajarkan penggunaan metode-metode tersebut dengan perangkat lunak EViews dan STATA di laboratorium komputer. Mahasiswa diberikan tugas kelas dan tugas Lab.	Thursday	11.00 - 13.30
85	Economics and Business	Economics	Undergraduate	Mathematics for Economics & Business I	ECEU601100	3	even	Depok	This course covers both concepts and techniques in mathematics which are relevant in economics, finance, and business. It is intended to help students understand economics theories and perform certain economic analysis. Topics such as linear model and matrix algebra, derivative, integral, and optimization will be discussed and practiced in a broad range of economic analysis framework.	Thursday	14.00 - 16.30
86	Economics and Business	Economics	Undergraduate	Intermediate Macroeconomics	ECEU600201	3	even	Depok	This course aims to equip students with a more comprehensive and in-depth understanding of the relationship among various macroeconomic variables and how macroeconomic policies can be used to fine-tune the economy. At this intermediate level, the utilization of mathematical approach is significantly higher than the introductory level. Hence, students should have already possessed sufficient understanding of the basic macroeconomic concepts and theories.	Friday	14.00 - 16.30
87	Economics and Business	Management	Undergraduate	Managerial Decision Making	ECMU601024	3	even	Depok	The course will help students to identify the different categories and situations, to determine the proper decision making approach, to calculate cost and benefit of any additional information, to understand the basic game theory, and to be a facilitator in a group decision making process. It discusses the decision-making techniques under uncertainty, the evaluation of cost and benefit for additional information, and the basic qualitative decision analysis for complex situations, which involve multi objectives, uncertainty and multi participants	Monday	08.00 - 10.30
88	Economics and Business	Management	Undergraduate	CSR and Business Ethics	ECMU601089	3	even	Depok	The relationship between business and society is a problem that is continuously questionable. That is, to what extent the companies should get involved and become part of community life. Assuming that the company is an open system, the company in today's interaction with the environment is getting more intense in which firms are located. Citizens are also increasingly concerned to corporate behavior and activities, so that companies today must not only be oriented to the consumer's needs but also pay attention to and take into account their stakeholder not just their shareholder. The stakeholder orientation lead that if the company want to continue its operations the company will need to consider the interaction and inter-relationships with the outside environment where the company is located. Further consequences, is that in running each function of business, companies are challenged to integrate external demand, which determines the existence of the company itself.  This course provides students the basics of business ethics and brings students to understand the complexity of the company's relationship with the community related to corporate social responsibility. Students are also expected to understand that there is a polemic in Indonesia, including the most recent Act on Limited Liability Companies	Monday	08.00 - 10.30

89	Economics and Business	Management	Undergraduate	Organizational Behaviour	ECMU60413	3		even	Depok	This subject introduces the human resources factor in company/organization. Organization is comprised of human that some relation and interaction among its members. Therefore, systematic understanding of how people behave in organization is needed by students to understand and analyze the performance of organization, satisfaction and effectiveness of policy. Moreover, this course teaches how to apply concept and theory in changing behavior in organization, start from individual, team to organization so that the organization can achieve its goal	Monday	11.00 - 13.30
90	Economics and Business	Management	Undergraduate	International Financial Market and Institutions	ECMU60208	3		even	Depok	This subject will introduce students to various financial institutions in the global context, performance and risk evaluation as well as financial markets and instruments in Indonesia and other countries. Students will also be provided with the basics of central bank practices and issues.	Monday	14.00 - 16.30
91	Economics and Business	Management	Undergraduate	Business Risk Management	ECMU61083	3		even	Depok	This course is designed to give basic understanding to students about the concept of risk management, definition of risk, classifications and types of risk. The sessions will also discuss the application of risk management in different types of field, for example in production, health and safety, and marketing. The first session will explain about the definition of risk and how businesses can manage their risks properly in order to minimize the uncertainties in running the company and to avoid as well as minimizing the possibility of loss (risk mitigation). Upon completing the subject, students are expected to understand how companies manage their risks.	Tuesday	08.00 - 10.30
92	Economics and Business	Management	Undergraduate	Portfolio Management	ECMU602045	3		even	Depok	This course discusses about the process of analysis, creation, optimization, and performance measurement of financial assets portfolio. After taking this subject, students are expected to form a particularly simple initial portfolio in stocks and bonds (e.g. in the framework of the establishment of a mutual fund) based on actual data (data derived from the stock exchanges in Indonesia).	Wednesday	08.00 - 10.30
93	Economics and Business	Management	Undergraduate	Management	ECMU61002	3		even	Depok	This introduction course to management discusses the basic concepts of management and organization, their history and development within the context of current changing business environment. This course presents systematically the process of coordinating work activities so that they are completed efficiently and effectively with and through other people. Four different management processes are subject to our discussion, i.e., planning, organizing, leading, and controlling. Special attention will be given to social responsibility, managerial ethics, and the importance of multinational organizations	Wednesday	11.00 - 13.30
94	Economics and Business	Management	Undergraduate	Organizational Culture	ECMU60433	3		even	Depok	This course explains the fundamental concepts of organizational culture. The topics cover definition of organizational culture, roles of culture in organizational success, substance of organizational culture, culture and organizational restructuring, roles of top management in forming and developing organizational culture, components of organizational culture, as well as dynamics culture in organization activities.	Wednesday	14.00 - 16.30
95	Economics and Business	Management	Undergraduate	Financial Theory	ECMU602063	3		even	Depok	Financial Theory introduces student various concepts of financial management. This course provides student a deep and comprehensive understanding of contemporary financial management theories as well as the illustration of its application on academics and real practices.	Thursday	08.00 - 10.30
96	Economics and Business	Management	Undergraduate	Consumer Behaviour	ECMU603012	3		even	Depok	to examine the behavioural concepts and theories relating to understanding consumers' purchase behaviour and their decision making process. It also discusses the influence of factors such as family, social groups, social class, culture and subculture, motivation and needs, perception, learning, personality and lifestyle attitudes toward consumers' purchase behaviour and decision making. Students will explore concepts and theories associated with the behavioural sciences, which can be used to: Understand how consumers behave in the marketplace; Understand how it may be possible to predict buying behaviour; Explore whether it is possible to influence buying behaviour; Understand how information about buying behaviour may be used to help develop appropriate marketing strategies	Thursday	08.00 - 10.30
97	Economics and Business	Management	Undergraduate	Business Research Method	ECMU61014	3		even	Depok	This course discusses about the stages of conducting research, starting from the preparation of research design, conducting research, data processing, to capturing the conclusions of the research. Completion of good research design would lead researchers to answer the research question and achieve the purpose of research into reasons to do research. This subject also learn about several methods of research and its benefits, so that researchers can adjust their time limit and budget constraint without sacrificing its quality research studies through validity and reliability.	Thursday	11.00 - 13.30
98	Economics and Business	Management	Undergraduate	Entrepreneurship	ECMU61050	3		even	Depok	This student centered learning course is aimed to develop the students' understanding in the theoretical and empirical based of the field of entrepreneurship. Bear in mind that entrepreneurship as a field of study is really quite young, though its existence as old as human history. Entrepreneurship is the dynamic process of creating incremental wealth. Others scholars define as process of creating something new and assuming the risks and rewards. All agreed that the wealth and reward are created by individuals who assume the major risks in terms of equity, time, and/or career commitment of organizing and providing value for some product or service. Entrepreneurship activities requires energy and passion towards the creation and implementation of new ideas and commitment of the willingness to take calculated risks (in terms of time, equity, or career), the ability to formulate and organize an effective venture team; the ability to adapt the creative skill in assembling needed resources; understanding the benefits of building a feasible business plan; and, finally, the vision to recognize opportunity of various future facilities where others see as un-wanted changes, chaos, contradiction, and confusion. Within the subject of developing the entrepreneurship sciences, FEUI is taking the courage to set a target of creating real benefit consistently concluded by our students, entrepreneurs and policy makers	Thursday	11.00 - 13.30
99	Economics and Business	Management	Undergraduate	Marketing Research	ECMU61050	3		even	Depok	This course is a continuation of business research methods course which will discuss the application of the concept of the overall marketing research process and marketing activities, whether research that aims to identify problems and research to solve problems.	Thursday	14.00 - 16.30
100	Economics and Business	Management	Undergraduate	Business Communication	ECMU61056	3		even	Depok	The primary objective of this course is to introduce students to the various forms of communications that are helpful in real-life business situations and personal life. Business Communication introduces concepts and strategies for different business situations including memo, letters, presentations, reports and technology based communications. Using a developmental approach to communications, the course applies methods for organizing ideas, analyzing data, addressing diverse concerns, presenting information, and developing a professional style communication.	Thursday	14.00 - 16.30
101	Economics and Business	Management	Undergraduate	Industrial Organization	ECMU61034	3		even	Depok		Thursday	14.00 - 16.30
102	Economics and Business	Management	Undergraduate	Security Analysis	ECMU602028	3		even	Depok	The main objective of Security Analysis course is to expose the participants to the valuation and investments process of financial assets. Besides discussing the valuation of financial instruments such as stocks, bonds, and derivatives, the course will also briefly cover the relevant contexts of financial investments in Indonesia, including its institutions and macroeconomic environments. Students are expected to read the subject materials prior to attending the class. While in the class, students are expected to actively contribute to class discussions. Students who take this subject are anticipated to understand the following concepts and techniques: 1. The characteristics of different financial assets; 2. Financial investments environment in Indonesia; 3. The impact of international and domestic macroeconomic conditions on financial markets and assets; 4. Valuation process of bonds, stocks, and derivatives; 5. Assessment of mutual fund performance	Friday	08.00 - 10.30
103	Economics and Business	Management	Undergraduate	Strategic Management	ECMU61047	3		even	Depok	This course offers basic origin of the strategic management and strategic planning model. This course emphasize on the understanding and student capabilities to answer what, where, when, why, and how question regarding to strategic management issues	Friday	08.00 - 10.30
104	Economics and Business	Management	Undergraduate	International Business	ECMU61123	3		even	Depok	This course provides understanding for students about international business practices especially the challenges and opportunities, understand strategy alternatives that are available and the elements that must be managed so that the best decision can be made in facing global competition. Several main topics of discussion include investment environment and global trade, political economy, foreign direct investment, regional economic integration, international financial system, international business structure and strategy, as well as all management functions at an international scale	Friday	08.00 - 10.30
105	Economics and Business	Management	Undergraduate	Introductory Business Law	ECMU61003	3		even	Depok	Economic and Business Law in Indonesia deals with positive business law in Indonesia that should be understood by economics students. This subject uses a practical approach, i.e. students are to understand law and legislation that closely related to economy and business practices. The subject introduces basic knowledge of the science of law, and related legislations that students are required to understand for their economics study or practice.	Friday	14.00 - 16.30
106	Economics and Business	Management	Undergraduate	Business Feasibility Studies	ECMU61046	3		even	Depok	This subject encourages students - (1) to generate ideas in creating new business for small, medium and big scale, (2) to explain practical application tools as well as how to assess business feasibility by considering financial, marketing, operation and human resources aspect (3) to establish an actual business feasibility through activities, such as: survey and business simulation. Students' participation in discussion and group assignment will mainly work to finalize the analysis and report.	Friday	14.00 - 16.30
107	Law	Law Single Degree / Joint Degree	Undergraduate	Integrated Personality Development Skills A	UIGE600001	6		odd	Depok			
108	Law	Law Single Degree / Joint Degree	Undergraduate	Personality Development Skills of Religious Course	UIGE600002	2		odd	Depok			
109	Law	Law Single Degree / Joint Degree	Undergraduate	Personality Development Skills of English Course	UIGE600003	3		odd	Depok			

110	Law	Law Single Degree / Joint Degree	Undergraduate	Theory of State	LWHD60001	3		odd	Depok		
111	Law	Law Single Degree / Joint Degree	Undergraduate	Introduction to Jurisprudence	LWHD60002	3		odd	Depok		
112	Law	Law Single Degree / Joint Degree	Undergraduate	Introduction to Indonesian Legal System	LWHD60003	3		odd	Depok		
113	Law	Law Single Degree / Joint Degree	Undergraduate	The Indonesian People and Society	UIH60001	3		odd	Depok		
114	Law	Law Single Degree	Undergraduate	Integrated Personality Development Skills B	UGI60002	6		even	Depok		
115	Law	Law Single Degree	Undergraduate	Personality Development Skills of Sport/Arts Course	UGI60002	1		even	Depok		
116	Law	Law Single Degree	Undergraduate	The Law and Society	LWMB60004	3		even	Depok		
117	Law	Law Single Degree / Joint Degree	Undergraduate	The Principles of Constitutional Law	LWTR60005	2		even	Depok		
118	Law	Law Single Degree / Joint Degree	Undergraduate	The Principles of Civil Law	LWPE60006	3		even	Depok		
119	Law	Law Single Degree / Joint Degree	Undergraduate	The Principles of Adat Law	LWPE60007	3		even	Depok		
120	Law	Law Single Degree / Joint Degree	Undergraduate	Principles of Islamic Law	LWPE60008	3		even	Depok		
121	Law	Law Single Degree / Joint Degree	Undergraduate	The Principles of Criminal Law	LWPR60009	3		even	Depok		
122	Law	Law Single Degree	Undergraduate	The Principles of Administrative Law	LWPR60010	3		odd	Depok		
123	Law	Law Single Degree	Undergraduate	The Indonesian State Institutions	LWPR60011	3		odd	Depok		
124	Law	Law Single Degree	Undergraduate	The Law of Obligation and Special Agreements	LWPR60012	3		odd	Depok		
125	Law	Law Single Degree	Undergraduate	The Law of Property	LWPR60013	2		odd	Depok		
126	Law	Law Single Degree	Undergraduate	The Islamic Civil Law	LWPR60014	3		odd	Depok		
127	Law	Law Single Degree	Undergraduate	The Family and Inheritance of Adat Law	LWPR60015	2		odd	Depok		
128	Law	Law Single Degree	Undergraduate	The Implementation of Principles of Criminal Law	LWPR60017	2		odd	Depok		
129	Law	Law Single Degree	Undergraduate	The Law and Economic of Development	LWMP601205	2		odd	Depok		
130	Law	Law Single Degree	Undergraduate	The Islamic Economics Law	LWPE600301	2		odd	Depok		
131	Law	Law Single Degree	Undergraduate	Basic Dutch for Law Students	LWKR60001	2		odd	Depok		
132	Law	Law Single Degree	Undergraduate	The Sectoral of Administrative Law	LWAN60016	2		even	Depok		
133	Law	Law Single Degree / Joint Degree	Undergraduate	The Agrarian Law	LWAN60018	3		even	Depok		
134	Law	Law Single Degree / Joint Degree	Undergraduate	The Labour Law	LWAN60019	2		even	Depok		
135	Law	Law Single Degree / Joint Degree	Undergraduate	The Public International Law	LWIN60020	3		even	Depok		
136	Law	Law Single Degree	Undergraduate	The Law of Criminal Procedure and Evidence	LWAC60021	4		even	Depok		
137	Law	Law Single Degree	Undergraduate	The Law of Civil Procedure	LWAC60022	3		even	Depok		
138	Law	Law Single Degree	Undergraduate	The Law on Constitutional Court Procedure	LWAC60023	2		even	Depok		
139	Law	Law Single Degree / Joint Degree	Undergraduate	The Principles of Commercial Law	LWAC60024	3		even	Depok		
140	Law	Law Single Degree	Undergraduate	The Consumer Protection Law	LWPE601406	2		even	Depok		
141	Law	Law Single Degree / Joint Degree	Undergraduate	The Law of Business Organization	LWPE60025	3		odd	Depok		
142	Law	Law Single Degree / Joint Degree	Undergraduate	Legal Research and Writing Method	LWPE60026	3		odd	Depok		
143	Law	Law Single Degree	Undergraduate	Selected Readings in Law of Civil Procedure	LWPE60027	2		odd	Depok		
144	Law	Law Single Degree	Undergraduate	The Administrative Court Procedure	LWPE60028	2		odd	Depok		
145	Law	Law Single Degree	Undergraduate	The Conflict of Laws	LWPE60029	3		odd	Depok		
146	Law	Law Single Degree	Undergraduate	The Environmental Law	LWAN60033	3		odd	Depok		
147	Law	Law Single Degree	Undergraduate	The Private International Law	LWIN60101	3		odd	Depok		
148	Law	Law Single Degree	Undergraduate	The Commercial Paper Law	LWPS60026	2		odd	Depok		
149	Law	Law Single Degree	Undergraduate	The Law of Insurance	LWPS60028	2		odd	Depok		
150	Law	Law Single Degree	Undergraduate	The Criminal Law in Practice	LWLK60035	3		even	Depok		
151	Law	Law Single Degree	Undergraduate	The Civil Law in Practice	LWLK60036	3		even	Depok		
152	Law	Law Single Degree	Undergraduate	Administrative Law Process in Practice	LWLK60037	3		even	Depok		
153	Law	Law Single Degree	Undergraduate	Contract Drafting	LWLK60041	2		even	Depok		
154	Law	Law Single Degree / Joint Degree	Undergraduate	The Banking Law	LWPE60202	2		even	Depok		
155	Law	Law Single Degree / Joint Degree	Undergraduate	The Law of International and Regional Organization	LWIN601103	3		even	Depok		
156	Law	Law Single Degree / Joint Degree	Undergraduate	The Law of Investment and Capital Market	LWPE60201	2		even	Depok		
157	Law	Law Single Degree	Undergraduate	The Competition Law	LWPE60208	2		even	Depok		
158	Law	Law Single Degree	Undergraduate	The International Trade Law	LWPE601405	2		even	Depok		
159	Law	Law Single Degree	Undergraduate	Selected Readings in Private International Law	LWIN601003	2		even	Depok		
160	Law	Law Single Degree	Undergraduate	The International Business Transaction	LWIN601004	2		even	Depok		
161	Law	Law Single Degree / Joint Degree	Undergraduate	The Law of Treaties	LWIN601101	2		even	Depok		
162	Law	Law Single Degree	Undergraduate	The Maritime Law	LWPE60204	2		even	Depok		
163	Law	Law Single Degree	Undergraduate	Thesis	LWSK600044	4		odd	Depok		
164	Law	Law Single Degree / Joint Degree	Undergraduate	The Legislative Drafting	LWHD60030	2		odd	Depok		
165	Law	Law Single Degree / Joint Degree	Undergraduate	Professional responsibility and Ethics	LWGB60031	2		odd	Depok		
166	Law	Law Single Degree	Undergraduate	The Law and Human Rights	LWGB60032	2		odd	Depok		
167	Law	Law Single Degree / Joint Degree	Undergraduate	The Philosophy of Law	LWHD600034	2		odd	Depok		
168	Law	Law Single Degree / Joint Degree	Undergraduate	The Intellectual Property Rights	LWPE60203	2		odd	Depok		
169	Law	Law Single Degree	Undergraduate	The Cyber Law	LWPE601402	2		odd	Depok		
170	Law	Law Single Degree	Undergraduate	The Law of the Sea	LWIN601102	3		odd	Depok		
171	Law	Law Joint Degree	Undergraduate	Diplomatic Law	LWIN601105	2		odd	Depok		
172	Law	Law Joint Degree	Undergraduate	Academic Writing for Students	-	1		even	Depok		
173	Law	Law Joint Degree	Undergraduate	The Criminal Law in Practice	LWLK60035	3		even	Depok		
174	Law	Law Joint Degree	Undergraduate	The Civil Law in Practice	LWLK60036	3		even	Depok		
175	Law	Law Joint Degree	Undergraduate	Diplomacy in Practice	LWLK60038	3		even	Depok		
176	Law	Law Joint Degree	Undergraduate	Alternative Dispute Resolution	LWLK60040	2		even	Depok		
177	Law	Law Joint Degree	Undergraduate	Contract Drafting	LWLK60041	2		even	Depok		
178	Law	Law Joint Degree	Undergraduate	The Principles of Administrative Law	LWAN60010	3		short	Depok		
179	Law	Law Joint Degree	Undergraduate	The Law of Obligation and Special Agreements	LWPE60012	3		short	Depok		
180	Law	Law Joint Degree	Undergraduate	The Law of Criminal Procedure and Evidence	LWAC60021	4		short	Depok		
181	Law	Law Joint Degree	Undergraduate	The Law of Civil Procedure	LWAC60022	3		short	Depok		
182	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Legal Systems	6602			odd	Depok		
183	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Legal Method and Skills	6601			odd	Depok		
184	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Contract Law	6694			odd	Depok		
185	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Law of Obligations	7042			odd	Depok		
186	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Corporations Law	7024			even	Depok		
187	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Constitutional Law	7022			even	Depok		
188	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Equity Law	7029			even	Depok		
189	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Criminal Law and Procedure	7025			even	Depok		
190	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Administrative Law	7018			odd	Depok		
191	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Evidence Law	7029			odd	Depok		
192	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Lawyers and Professional Responsibility	7043			odd	Depok		
193	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Property Law	7050			odd	Depok		
194	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Litigation and Dispute Processing	7047			even	Depok		
195	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Advanced Legal Research and Writing	7019			even	Depok		
196	Law	Law Joint Degree (in Canberra Univ)	Undergraduate	Law Elective	-			even	Depok		

197	Law	Law (Legal Science)	Bachelor of Laws	The Law of Business Organization	LWPE60025	3	first semester	UI Depok	This course provides an introduction to Business Organization Law. The course materials include issues relating to business forms, formation, organizational structure, management, control, and dissolution. This course explores not only business entities, such as partnership and corporation, but also practical implications of such entities in terms of liabilities and contracts, obligations, and protection for management and shareholders/partners/investors, as well as unincorporated associations or entities. At the end of this course, the students will have an understanding of the law applicable to a number of modern business organizations, laws on capital, and laws applying to personnel involved in the management of such organizations.			
198	Law	Law (Legal Science)	Bachelor of Laws	Private International Law	LWIN61001	3	first semester	UI Depok	This course discusses historical development, legal basis, principles, general and specific theories of Private International Law, including: renvoi, qualifications, legal options, and public order. With a comprehensive understanding of the foregoing, students are expected to be able to identify legal relationships in which two or more national legal systems come across one another and determine the law applicable to those relationships.			
199	Law	Law (Legal Science)	Bachelor of Laws	The Indonesian State Institutions	LWTN60011	3	first semester	UI Depok	This course discusses Indonesian state institutions and their development from the legal perspective, as well as solves problems based on theories, concepts, and applicable laws and regulations. The state-institutional-law-related subjects addressed in this course include major state institutions in executive, legislative, and judicial branches, as well as other major and supporting state institutions.			
200	Law	Law (Legal Science)	Bachelor of Laws	Introduction to the Indonesian Legal System	LWHD60003	3	first semester	UI Depok	This course discusses the law in force at the present time (positive law). The course materials will include Indonesian law, history of Indonesian legal pluralism; legal systems (civil law, common law, customary law, and Islamic law), scope of Constitutional Law, Administrative Law, Criminal Law, Civil Law, including property law, obligation law, family law, and inheritance law; Procedural Law (criminal, civil, state administration, and constitutional court); International Law studying the principles of international law, sources of international law (public law and civil law), and legal subjects of international law.			
201	Law	Law (Legal Science)	Bachelor of Laws	The Conflict of Laws	LWPE60029	3	first semester	UI Depok	This course discusses the pluralism of legal systems in Indonesia and other countries, historical development, legal basis, principles, and general theories of conflict of laws. In addition, this course also studies how to identify legal relationships classified as conflict of laws and determine the law applicable to such legal relationships.			
202	Law	Law (Legal Science)	Bachelor of Laws	Environmental Law	LWAN60033	3	first semester	UI Depok	This course will discuss and analyze environmental issues from the perspective of three legal fields: criminal, civil, and administrative law. The course begins with a discussion of the principles of environmental law, such as sustainable development, polluter pays principles, precautionary principles, prevention principles, state responsibility, and environmental justice. Furthermore, the course will discuss central and local government institutions, their authority, responsibilities, and roles in environmental planning and strategic environmental assessments. The discussion will move forward to environmental planning instruments, i.e. the command and control approach, the economic approach, and the voluntary approach. Moreover, the course materials include legal standing and environmental dispute settlement (both in and out of court), enforcement of administrative law, enforcement of civil law, and enforcement of criminal law. The last three sessions of this course will discuss real cases for the analysis using theories, practices, and decisions in administrative, civil, and criminal cases.			
203	Law	Law (Legal Science)	Bachelor of Laws	The Islamic Civil Law	LWPE60014	3	first semester	UI Depok	The Islamic Civil Law is a continuing subject studying Islamic Law in depth and discussing three areas of Islamic Law, i.e. Islamic law of persons and family law, Islamic inheritance law, and Islamic obligation law. The three areas address the philosophical background of Islamic Law, its legal basis and applicable positive law, as well as practical application in the Indonesian society.			
204	Law	Law (Legal Science)	Bachelor of Laws	The Law of Obligation and Special Agreement	LWPE60012	3	first semester	UI Depok	This course discusses the structure and classification of Chapter III of the Indonesian Civil Code, the definition of obligation, sources of obligation, types of obligation, performance and non-performance, force majeure, damages, torts and termination of obligation, special agreements—whether or not governed by the Indonesian Civil Code—including: sales and purchase, barter, lease, grant, bailment, rental, loan, power of attorney, and warranty.			
205	Law	Law (Legal Science)	Bachelor of Laws	Introduction to Jurisprudence	LWHD60002	3	first semester	UI Depok	This course studies the fundamentals of law to gain an understanding of the definition and basic functions of law in general. The main subjects of this course include, among others, jurisprudence, legal systems, legal objectives, legal dogmatics, including aspects and background of legal norms, legal norms and other ethical norms, subjects of legal norms, key definitions in a legal system, application of law, sources of law, laws and regulations and jurisprudences, inception of law, and enforcement of law.			
206	Law	Law (Legal Science)	Bachelor of Laws	Law and Economic of Development	LWMP61205	2	first semester	UI Depok	This course discusses the importance of the relations between law and economic development, theories of economic development, liberal perspective of the role of law in economic development, the role of law in socialist economic development, the role of law in economic development, the impact of liberal economic development on the legal system, the impact of economic development on the legal system, the impact of globalization on Indonesia's legal system, the impact of legal globalization on Indonesia's economic development, economic development in Indonesia, existing legal issues, the prescriptive study on the legal and economic development in Indonesia.			
207	Law	Law (Legal Science)	Bachelor of Laws	The Family and Inheritance of Adat Law	LWPE60015	2	first semester	UI Depok	This course discusses the principles, concept, and foundation of customary marriage law, customary family law, and customary inheritance law. Particularly, different forms of marriage and their legal implications on spousal relationship, parent and child relationship, and marital assets; different types of the family system operating in society and all of their legal aspects; subject and object of inheritance law, different types of the inheritance system, Preferred and Substitute Beneficiaries and Beneficiaries' Portions; grants and inherited grants, as well as the growth and development of customary law in the areas of marriage law, family law, and inheritance law.			
208	Law	Law (Legal Science)	Bachelor of Laws	Cyber Law	LWPE61402	2	first semester	UI Depok	Cyber Law is a new field of law discussing legal dynamics relating to the convergence of telecommunications, media, and information technology, which is in essence the law of information and communications itself, either conventional or electronic (internet and cyberspace). The approach taken is a socio-techno-business perspective in which law will align technological and business dynamics with social and national dynamics. The materials discussed in this course include the understanding of the fundamentals of technology and business in terms of information, media, and communications, and the implementation of good information technology and communications governance (IT Governance and Internet Governance) as well as understanding of every relevant aspect, including: telecommunication law, mass media, and public information disclosure law, e-commerce and e-contract law, legal aspects of corporate archive administration (e-record management), intellectual property rights (IP) in a digital environment, consumer protection, competition, taxation, state administration and public services (e-government), criminal law and evidence as well as procedural law (cybercrime and digital evidence), national defense and security law (cybersecurity) and application of legal audit bases (IT Legal Audit).			
209	Law	Law (Legal Science)	Master of Laws	Corporate Law	LWEL80201	2	HP1/Eko Pagi	first semester	UI Salemba	This course aims to allow students to understand the principles of general principles, forms or types, requirements, procedures and mechanisms for the establishment, operation and dissolution and liquidation of the company following the problem-the problem. The scope of the teaching materials include: Corporate Law, Law Guild Civil, (Guild) Firma & Guild Commanditaire, the Law Society-associations Legal Entity, Limited Liability Company Law, Capital and Shares, organs Limited Company, the General Meeting of Shareholders, the Board of Directors & Board Commissioner, Good Corporate Governance and Directors Liability Company Limited Investment In State and Foreign Investment Limited Company, Dissolution and Liquidation, Merger, Consolidation and acquisition Company, stuff Actual in Corporate Law		
210	Law	Law (Legal Science)	Master of Laws	General Agreement on Tariffs and Trade 1994	LWTT80203	2	GATT/1/HP1	first semester	UI Salemba	This course provides understanding of the various agreements relating to the Tariff and Trade that includes: Agreement on Agriculture; Agreement on the Application of Sanitary and Phytosanitary Measures; Agreement on Textiles and Clothing; Agreement on Implementation of Article VI of the General Agreement on tariffs and Trade 1994 (Anti-dumping); Agreement on implementation of Article VII of the General Agreement on Tariffs and Trade 1994 (Custom Valuation); Agreement on pre-shipment Inspection; Agreement on Rules of Origin; Agreement on Import Licensing Procedures; Agreement on Subsidies and Countervailing Measures; Agreement on Safeguards, Doha Round and non-WTO / Singapore Issues.		
211	Law	Law (Legal Science)	Master of Laws	Human Rights	LWCL80203	2	AM/2/HTN Pa	first semester	UI Salemba	This course provides an understanding to students about various aspects related to the implementation and protection of Human Rights in various countries. The discussion focused on aspek-aspek theory and philosophy, constitutional, political, social and implementation Human Rights. In addition, also discussed the rights and obligations of the various parties in the protection of human rights in various countries as well as legal remedies and dispute settlement Human Rights, either through the judicial Human Rights and the Truth and Reconciliation Commission, and others.		
212	Public Health	International Public Health	Master	Foundation of Public Health	PHF080011	2		1	Depok			
213	Public Health	International Public Health	Master	Biostatistic Intermediate	PHF080012	3		2	Depok			
214	Public Health	International Public Health	Master	Epidemiology Intermediate	PHF080013	3		2	Depok			
215	Public Health	International Public Health	Master	Politics and Power in Public Health	PHS181014	2		3	Depok			
216	Public Health	International Public Health	Master	Health Research Method	PHS181021	2		1	Depok			
217	Public Health	International Public Health	Master	Qualitative Research Method	PHS181022	2		3	Depok			



218	Public Health	International Public Health	Master	Data Management and Anlysis	PHS1801023	2		3	Depok			
219	Public Health	International Public Health	Master	Scientific Writing	PHS1801024	2		2	Depok			
220	Public Health	International Public Health	Master	Health Science Research Dissertation Preparation	PHS1801015	2		1,2,3,4	Depok			
221	Public Health	International Public Health	Master	Health Science Research Dissertation Project	PHS1801041	8		8	Depok			
222	Public Health	International Public Health	Master	Concept in Health Promotion Planning	PHP2802016	2		1	Depok			
223	Public Health	International Public Health	Master	Health Policy	PHA2807016	3		1	Depok			
224	Public Health	International Public Health	Master	Public Health Nutrition Principles	PHS2802024	2		2	Depok			
225	Public Health	International Public Health	Master	Environmental Health Management	PHL2802016	2		2	Depok			
226	Public Health	International Public Health	Master	Epidemiology of Infectious Diseases	PHS1801022	2		4	Depok			
227	Public Health	International Public Health	Master	Organization of Health Care System	PHA2803033	3		3	Depok			
228	Public Health	International Public Health	Master	Public Health Nutrition Practice	PHS2802032	2		3	Depok			
229	Public Health	International Public Health	Master	Public Health Response to Climate Change		2		2	Depok			
230	Engineering	Civil Engineering	Undergraduate International Programme	Statistic and Probability	ENGE610010	2		1	Depok	Statistics and probability has been known as applied mathematics which is widely used in collecting, organizing, presenting, interpreting and analyzing data to support valid conclusions. Furthermore, these conclusions will be used as recommendation in decision making. The course of Statistics and Probability is intended to give a basic ability for students to handle quantitative data and information. There are two stages that are delivered which is descriptive and inductive/inference stages. Descriptive stage includes collecting, organizing, and presenting the data in a scientific manner. Then, inductive/inference stage includes the process of estimating and drawing conclusion based on available data and relations between variables. Hence, students are expected to apply their knowledge of statistics in conducting experiments in laboratory works/assignments as well as research studies in their final projects.		
231	Engineering	Civil Engineering	Undergraduate International Programme	Basic Chemistry	ENGE610009	2		1	Depok	As an engineer, you must have understanding on the chemistry that provides not only the basis for much of what goes on in our world but also that it is a vital, continually developing science. In this study the students will learn many subjects such as matter and measurement; atoms, molecules, and ions; stoichiometry; aqueous reactions; thermochemistry; properties of solutions; chemical kinetics; chemical equilibrium; and electrochemistry. Learning activities will be conducted through various method, which consists of: problem based learning (PBL), interactive lecture, question based learning, discussion, demonstration and unguided structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam.		
232	Engineering	Civil Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal) Lab	ENGE610006	1		1	Depok			
233	Engineering	Civil Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal)	ENGE610005	3		1	Depok	The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is use as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.		
234	Engineering	Civil Engineering	Undergraduate International Programme	Calculus 1	ENGE610001	3		1	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand basic concepts the functions of one variable, derivatives and integral functions of one variable, and its application.		
235	Engineering	Civil Engineering	Undergraduate International Programme	Material Properties	ENCV611002	3		1	Depok	Provide understandings concerning important elementary and practical aspects of materials in the civil engineering field Syllabus : Particulate Materials, Aggregates, Portland Cement and Portland Concrete Cement, Structural Steel, Asphalt Cement and concrete asphalt, wood, plastic and polymer, Concrete Fibers		
236	Engineering	Civil Engineering	Undergraduate International Programme	Intro to Civil Engineering System	ENCV611001	3		1	Depok	Engineering Analysis and Design, Design Process, Design Documentation, and construction technology by using the approach of Case Based Programs, in the form of the urban settlement environment (development of case examples of Eng. Drawing subjects). Content: civil infrastructure system; Transport, Drainage, Sanitation, Garbage, Clean Water, Energy & Telecommunications, Fesce-Fasum (constructions and relevant facilities, example: education, religious services, entertainment, government), Open green areas, Commercial.		
237	Engineering	Civil Engineering	Undergraduate International Programme	Physics (Electricity, MWO)	ENGE610007	3		2	Depok	The Basic Physics 2 subject includes the topics of electricity, magnet, wave, and optics. Calculus is use as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their soft skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyze the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept.		

238	Engineering	Civil Engineering	Undergraduate International Programme	Physics (Electricity, MWO) Lab	ENGE610008	1		2	Depok		
239	Engineering	Civil Engineering	Undergraduate International Programme	Linear Algebra	ENGE610004	4		2	Depok	This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices	
240	Engineering	Civil Engineering	Undergraduate International Programme	Calculus 2	ENGE610002	3		2	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand the basic concept the function of two variables, or variables, total derivative and integral of the function of two or more variables and application. In addition, students can understand the basic concepts of sequence and series.	
241	Engineering	Civil Engineering	Undergraduate International Programme	Statics	ENCV612003	4		2	Depok	<p>Learning Objectives:</p> <p>1. Students are expected to be able to understand the basics of mechanics concerning force, action, reaction, and internal force in various statically determinate structures.</p> <p>2. Able to calculate and construct internal force diagrams in various statically determinate structures and able to calculate and construct influential lines of statically determinate structures caused by moving loads upon them.</p> <p>Syllabus - General knowledge of forces, force characteristics; calculating force resultants, composition of several forces, force analysis, force balance using analysis and graphics; identification of various structure types; Definition of force in a structure plane, analyzing and calculating placement reactions and internal forces in statically determinate structures (simple beams, cantilever beams, beams with changeable positions, Gerber beams, beam with indirect loads, portals, three hinged portals, hanging structures and supports); Analyzing and calculating truss forces in beam structures and beam framework spaces. Description of influential lines for statically determinate structures; Analyzing and calculating influential line equations for placement reactions and internal forces in a statically determinate structure plane, as well as calculating maximum value of forces in a structure plane caused by moving loads acting upon them</p>	
242	Engineering	Civil Engineering	Undergraduate International Programme	Construction Drawing	ENCV612002	2		2	Depok	<p>Learning Outcomes :</p> <p>4. Students will be able to explain engineering drawing symbols in Civil Engineering field and draw it manually or using a software (AutoCAD);</p> <p>5. Be able to design a one-floor simple healthy house building;</p> <p>6. Be able to draw the one-floor simple healthy house building according to rules and procedures of engineering drawing such as aperture drawing (plans and appearance) and section view; covering dimension/sizes; foundation drawing, structural beam and column drawing, trusswork drawing, electrical installation and plumbing.</p> <p>Competencies in Curriculum: Prior knowledge for WA5 (modern tool usage) and achieving competency WA10 (communication skill)</p> <p>Syllabus : introduction to Civil Engineering knowledge discipline scope and Civil Engineering building construction, introduction to engineering drawing, benefit and purpose of drawing in design process; introduction to drawing tools, drawing paper format, drawing head, standards, lettering, leader, and scale; geometric construction; pictorial projection; orthogonal projection; section view drawing; details of the building drawing, construction drawing of wooden and light steel rooftop; beam construction drawing, column and river stone foundation; electrical installation drawing and plumbing drawing</p>	
243	Engineering	Civil Engineering	Undergraduate International Programme	Advanced Chemistry	ENCV612001	3		2	Depok	Students be able to Apply the conservation energy to design the channels so that the flow rate can be distributed, Use the application of WinTR20 to simulate the storage effect that occurs at the flow through the channels that have been projected and design the simple water infrastructure's system (channels and reservoir) at observed watershed	
244	Engineering	Civil Engineering	Undergraduate International Programme	Engineering Economics	ENGE610011	3		3	Depok	<p>This course introduces students to the basic of engineering economy. It covers the time value of money (TVOM) and interest rate, tools for evaluating project alternatives for both non discounted and discounted methods, for instance present worth analysis, annual worth analysis, future worth analysis, rate of return (ROR) analysis and benefit/cost analysis, and choosing the best alternative, break even analysis, and effect of depreciation and after tax analysis and sensitivity analysis, and replacement analysis.</p> <p>Learning activities will be conducted through various methods, which consist of: interactive lectures, question-based learning, discussion, and structure assignments. Assessment will be made thoroughly through sets of exercises/quizzes, group discussion, midterm and final exam. To expose students on the latest utilization of engineering economy and train them how to use it, a project will be assigned. As an integral part of course, computer utilization such as Microsoft Excel will be demonstrated and discussed on the class.</p>	

245	Engineering	Civil Engineering	Undergraduate International Programme	Fluid Mechanics	ENCV613005	3		3	Depot	<p>Learning Objectives:</p> <p>1. Be able to analyze fluid pressure distribution at a given static situation to be applied for load calculation of structure stability of civil building</p> <p>2. Be able to analyze fluid in motion to be applied for calculation of total flow and the induced dynamic forces</p> <p>Syllabus : The most important basic sciences civil engineering is mechanics knowledge. This knowledge can be separated into material mechanics and fluid mechanics. The mechanics of fluids lectures provide basic formulation of motion and body forces that cannot be perceived as a completely integrated fluid, such as wind and water. This knowledge is the basis for all of subjects in water resources engineering; e.g. advanced hydraulics, hydrology. Design of water infrastructure, ground water resources, water surface management and development, etc. Up to midterm test, the material will include fluid statics covers definition of pressure, pressure distribution, as well as application of the fundamental equation to determine the force due to water pressure in various civil structure engineering. In the next half semester, the topics will discuss about fluids in motion, starting from conceptualization of eulerian motion and the application in mass conservation law, momentum, and energy to calculate the magnitude of total flow and dynamic force. The total flow and force are the basic design for hydraulic structure or civil building structure.</p>		
246	Engineering	Civil Engineering	Undergraduate International Programme	Basic Soil Mechanics	ENCV613004	3		3	Depot	<p>Learning Objectives : Students are expected to understand the use of soil parameters in relation to the calculation the strength and stability of soil for building/simple civil engineering construction</p> <p>Syllabus : Engineering geology and soil properties .Definition of the science of geology, geotechnical engineering with other disciplines/civil, Topographic maps and geomorphology; Definition and meaning of topographic units and equipment;</p> <p>Kind of structure of geology; Identification and influence of coating, stocky, faults, inconsistency of the construction; Weathering and soil movement; Introduction of variety, processes, and identification of weathering; Geological and Geotechnical maps; Analysis of basic topography map; Criteria of geotechnical and geological map; Soil properties;</p> <p>Soil as a three-phase material; Physical characterization of soil; Atterberg limit; Theory of compaction and CBR; Permeability and introduction to seepage, flow line; Theory of stress and effective stress; Effective stress reactions due to changes in total stress in fully saturated soil; Soil shear strength test in the laboratory between sand and clay; Consolidation theory and its test; Critical state of soil mechanics.</p>		
247	Engineering	Civil Engineering	Undergraduate International Programme	Solid Mechanics	ENCV613003	4		3	Depot	<p>Learning Objectives: By the end of this subject student</p> <p>are expected to be able to calculate various internal forces (axial, shear, flexural moments and torsional force), stress and strains occurred due to internal forces of cross sections of simple elastic member by considering the characteristics and laws of mechanical materials and its combination and be able to calculate beam deflections and column elastic buckling columns</p> <p>Syllabus : Material properties; stress and axial deformation of statically determined structures; stress and axial deformation of statically indeterminate structures, flexural stress of beam; stress and torsional deformation of statically indeterminate structures; analysis and design of elastic stress due to loads combinations; stress and strain transformation; yield criteria and failure criteria of elastic buckling; beam deflection; understanding elastic buckling theory and can be able to use it in steel column design.</p>		
248	Engineering	Civil Engineering	Undergraduate International Programme	Building Construction	ENCV613002	3		3	Depot	<p>Learning Objectives:</p> <ol style="list-style-type: none"> <li>1. Students understand the symbols of engineering drawing in Civil Engineering, have ability to draw the civil structures such as simple buildings (up to 2 stores), waterworks, sewage treatment construction, geotechnical construction (foundation, retaining wall), roads, and bridges.</li> <li>2. Students are able to calculate the building quantity, the unit prices and cost estimate.</li> <li>3. Students are also able to present the image and design of these buildings, both orally and in writing.</li> </ol> <p>Syllabus : Introduction to SAP; Introduction to Engineering Drawing, Functions and usefulness of drawing in the design and production processes;</p> <p>The introduction of drawing tools, drawing paper format, standards, lettering, leader, and scale; Geometric Construction: Multi-View Drawings; Oblique projections; Section Views; Dimensioning and Tolerance; Wood Construction (Roof and Bridge Construction, etc.); Structural Steel Drafting (Construction Roofing, Bridge and Factory); Concrete Construction (example: Foundations.</p> <p>Building Construction; Rigid Pavement Road and Bridges; Dams, etc.); Electrical installations;</p> <p>Welding; Piping and Plumbing Drawings; Topographic Mapping; Understand the scope of disciplines of Civil Engineering and introducing Civil Construction structures, understand and draw the structure of simple building (two stories), waterworks, sewage treatment building, ground, foundation, retaining wall, the structure of roads and bridges as well as calculating the cost of construction.</p>		
249	Engineering	Civil Engineering	Undergraduate International Programme	Advanced Calculus	ENCV613001	3		3	Depot	<p>Learning Objectives: After following this subject, students will understand basic calculus concepts, ordinary differential equations and partial differential equations and skills to solve applied problems. Syllabus : Lines and Lanes, Vector Calculus, Ordinary Differential Equations, Laplace Transformation, Partial Differential Equations</p>		

250	Engineering	Civil Engineering	Undergraduate International Programme	HSE Protection	ENGE610012	2		4	Depok	<p>The teaching of Safety, Health and Environmental (SHE) protection to undergraduates studying engineering courses is an important part of the education of future engineers at all levels. It is the generally expressed view amongst practitioners in industry, business and other organisations that all engineers need to be equipped to appreciate, understand and implement the requirements of SHE management and practice to meet the working needs of industry and of their company (or other organisation). Whilst the level of risk and degree of control is dependent on the industry sector concerned the basic principles do not change. In addition, according to code of ethics of engineers, engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties.</p> <p>The module covers the regulation framework and standards, risk perception, assessment, and management and detail discussion on physical, chemical and process hazards, and related engineering and management controls. Maintenance of safety conditions, personal protective equipments, audit, incident and emergency planning are discussed in accordance to measures for improving students awareness to their daily activities within the campus premises and local environment.</p> <p>Learning activities will be conducted through various methods, which consist of: interactive lecture, question-based learning, discussion, demonstration and ungraded structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam</p>		
251	Engineering	Civil Engineering	Undergraduate International Programme	Hydraulics	ENCV614006	3		4	Depok	<p>Relationship between fluid mechanics and hydraulics in civil engineering; definition of solids, liquid and gas; concept of continuum mechanics, intensive and extensive properties. Fluid properties; Kinetic energy, potential energy, and work through thermodynamics concepts as well as thermodynamics scale which are relevant with fluid mechanics. Hydrostatics; formulation of dot and surface pressure equations as well as their application. Flowing fluid; stream classification; Lagrangian and Eulerian concepts, flux and control volume. General formulation of conservation laws of mass, first law of thermodynamics, Newton's second law, moment from momentum with the approach of volume control in the form of integrals and differentials. Internal flow; formulation of speed profile and loss</p>		
252	Engineering	Civil Engineering	Undergraduate International Programme	Transportation Engineering	ENCV614005	3		4	Depok	<p>Learning Objectives: The students are able to analyze the road transport performance based on the variables related to the traffic flows through the application of Indonesian Highway Capacity Manual (MKJI) and Highway Capacity Manual (HCM)</p> <p>Syllabus : Variable and Traffic Flow Model; Measurement of Traffic Flow Variables and Traffic Survey; Spot Speed Study; Volume Study; Travel Time and Delay Study; Parking Study; Link Capacity Study; Intersection Capacity Study ; Practice</p>		
253	Engineering	Civil Engineering	Undergraduate International Programme	Soil Mechanics	ENCV614004	3		4	Depok	<p>Learning Objectives : Students are expected to understand the use of soil parameters in relation to the calculation the strength and stability of soil for building simple civil engineering construction</p> <p>Syllabus : Engineering geology and soil properties; Definition of the science of geology; geotechnical engineering with other disciplines/civil; Topographic maps and geomorphology; Definition and meaning of topographic units and equipment;</p> <p>Kind of structure of geology; Identification and influence of coating, stocks, faults, inconsistency of the construction; Weathering and soil movement; Introduction of variety, processes, and identification of weathering; Geological and Geotechnical maps; Analysis of basic topography map; Criteria of geotechnical and geological map; Soil properties;</p> <p>Soil as a three-phase material; Physical characterization of soil; Atterberg limit; Theory of compaction and CBR; Permeability and introduction to seepage; flow line; Theory of stress and effective stress; Effective stress reactions due to changes in total stress in fully saturated soil; Soil shear strength test in the laboratory between sand and clay; Consolidation theory and its test; Critical state of soil mechanics.</p>		
254	Engineering	Civil Engineering	Undergraduate International Programme	Structural Analysis	ENCV614003	3		4	Depok	<p>Learning Objectives: Analysing statically indeterminate structural responses of truss, beams and frame affected by external loads, temperature change and degradation of placement. Influence lines of statically indeterminate structures.</p> <p>Syllabus : Introduction, beam deflection, statically indeterminate structural analyses of truss, beam and frame using the Consistent Deformation method, Three Moment Equation method, Slope Deflection method, Moment Distribution method and Slope Deflection method</p>		
255	Engineering	Civil Engineering	Undergraduate International Programme	Surveying	ENCV614002	3		4	Depok	<p>Learning Objectives : Students are expected to understand the use of soil parameters in relation to the calculation the strength and stability of soil for building simple civil engineering construction mapping out survey results as well as utilizing these methods in general civil engineering works</p> <p>Can be able to use measuring instruments in the field during a practicum and implement a measurement map to the field in civil engineering activities</p> <p>Syllabus : Explanation of land surveying concept in civil engineering work, mistake theory; introduction to distance, angle and other measuring tools which are usually used in mapping and civil engineering work, description of horizontal distance, vertical distance, and angle measurement methods; description of basic concepts of mapping, with measurement, calculation of volume. Usage of measuring tools, flat spher and Theodolite for field data acquisition and implementation of measurement results to the field in civil engineering activities</p>		

256	Engineering	Civil Engineering	Undergraduate International Programme	Numerical Method	ENCV614001	3		4	Depok	<p>Learning Objective : Students will be able to solve mathematics equation on linear algebra and differential equation with numerical method using MatLab software.</p> <p>Competencies in Curriculum : Prior knowledge for WA1 (Engineering knowledge) and WA5 (modern tool usage)</p> <p>Syllabus : Introduction to MATLAB (programming basics with MATLAB), Searching for root equation (Bracketing Method &amp; Open Method); Linear System (Solving Simultaneous Linear Algebraic Equation, Gauss Elimination, LU-Factorization, Matrix Inversion, Solution by Iteration, Eigenvalues). Numerical Method in Curve Fitting (Linear Regression &amp; Least Square), Numerical Method in solving: Ordinary Differential Equations (Initial Value Problems, Adaptive Method and Stiff System, Boundary Value Problems)</p>		
257	Engineering	Civil Engineering	Undergraduate International Programme	Ethics and Construction Law	ENCV615005	2		5	Depok	<p>Learning Outcomes :</p> <ol style="list-style-type: none"> <li>1. Students will be able to explain ethics and morality in civil engineering profession and able to apply the knowledge in analyzing the impact when ethics is not applied;</li> <li>2. Be able to explain the legal aspect and contracts in a construction project.</li> </ol> <p>Competencies in curriculum : WA6 (engineer in society), WA8 (ethics)</p> <p>Syllabus : Ethics and morals definition; Ethics theory; Work Ethics; Construction business ethics; Ethics towards environment; Law and regulation in construction works; Legal aspect of the dispute in construction works; Construction contracts</p>		
258	Engineering	Civil Engineering	Undergraduate International Programme	Water Engineering 1	ENCV615004	3		5	Depok	<p>Learning Objectives: After completing the whole studies, students are expected to be able to present the final design of a simple water infrastructure in the form of systematic written documents and are able to deliver them orally.</p> <p>Syllabus : Students be able to Execute and interpret the data; Read and interpret the topography map, basic water resources; Flood Forecasting Estimation; Water Availability Assessment; water Demand Estimation and water balance</p>		
259	Engineering	Civil Engineering	Undergraduate International Programme	Road Geometric Design	ENCV615003	3		5	Depok	<p>Learning Objectives : Student is able to design simple highway geometric considering economic, environmental issues, comfort and safety principles</p> <p>Syllabus : Introduction to Indonesia norms, standards, codes and manuals for geometric design; Highway classification and functions ; Design criteria and control : vehicles, drives, capacity, safety, environmental and economic factors ; Design elements : sight distance, horizontal alignment, vertical alignment, cross section, right of way, lanes, curb, median, pedestrian and bicycle facilities ; Cut and fill, drainage design for road; Stacking, out, road lighting ; Project work : a complete set of road geometric design</p>		
260	Engineering	Civil Engineering	Undergraduate International Programme	Foundation Engineering	ENCV615002	3		5	Depok	<p>Soil properties required in analysis and design of deep foundations and deep retaining structures. Deep foundations: construction methods and materials, axial compression capacity, settlement, lateral capacity, lateral displacement, pile loading tests, introduction to structural design. Deep retaining structures: construction methods and materials, analytical and design methods</p>		
261	Engineering	Civil Engineering	Undergraduate International Programme	Steel Structure 1	ENCV615001	3		5	Depok	<p>Learning Objectives: After attending this class, students will understand about design concepts, load applied on structures, structural systems and be able to design structural members from reinforced concrete according to procedures and design standards.</p> <p>Syllabus: Introduction to structural system analysis and design, design steps, LRFD, reduction factor and allowable stress; Loads and Loading: Load Forms, load types, location of loads, load distribution, load factor and load combination; Structural systems for concrete structures; Materials and cutting properties of reinforced</p>		
262	Engineering	Civil Engineering	Undergraduate International Programme	Construction Methods and Equipment	ENCV616005	2		6	Depok	<p>Learning Outcomes :</p> <ol style="list-style-type: none"> <li>1. Students will be able to calculate the capacity and cost of a heavy construction equipment, able to analyze the character, type and volume of the works;</li> <li>2. Be able to calculate and plan an execution process of soil displacement using heavy construction equipment by considering the principal of construction management in calculating the cost aspect;</li> <li>3. Be able to work together in a team.</li> </ol> <p>Competencies in curriculum : WA3 (design), WA9 (team work) and WA11 (Project management &amp; finance)</p> <p>Syllabus : Definition of mechanical earth moving, characteristic, type of soil and soil volume, operation of heavy equipment, capacity and production cost of heavy equipment, calculate work volume, determine the equipment needs, designing to combining equipment for optimization times and cost; Calculate production of heavy equipment, the way to work of each heavy equipment, the way to planning project; Several ways to calculate volume of cut and fill, construction method, calculation of the work schedule and related cost</p>		

263	Engineering	Civil Engineering	Undergraduate International Programme	Construction Management	ENCV616004	2	6	Depok	<p>Learning Objectives:</p> <p>At the end of the course, students are expected to be able to:</p> <ol style="list-style-type: none"> <li>1. Understand the concept and process of construction projects management starting from planning stage, execution stage, and project hand over.</li> <li>2. Identify the planning process and implementation of project management techniques in terms of cost, time, and quality of the project.</li> <li>3. Understand the construction law and legal aspect of construction project</li> </ol> <p>Syllabus : Construction project knowledge including: Project Planning; Bidding documents preparation; Legal aspect and contract administration; Construction planning; Construction execution; Monitoring &amp; Controlling; Material Management; Quality Management; Project Cost Management; Time Management; Health, Safety, and Environmental Management; Resource Management; Project Organization and Stakeholder Management</p>		
264	Engineering	Civil Engineering	Undergraduate International Programme	Water Engineering 2	ENCV616003	3	6	Depok	<p>Learning Objectives: After completing the whole studies, students are expected to be able to present the final design of a simple water infrastructure in the form of systematic written documents and are able to deliver them orally</p> <p>Syllabus : Students be able to Apply the conservation energy to design the channels so that the flow rate can be distributed. Use the application of WinTR20 to simulate the storage effect that occurs at the flow through the channels that have been projected and design the simple water infrastructure's system (channels and reservoir) at observed watershed</p>		
265	Engineering	Civil Engineering	Undergraduate International Programme	Pavement Design	ENCV616002	3	6	Depok	<p>Learning Objectives: Student is able to explain the concept of highway pavement design which cover type of highway pavement, design of pavement, analyze of pavement materials based on laboratory testing Student is able to identify pavement distresses and its repair maintenance processes</p> <p>Syllabus : Type of pavement, structure and function of structural layers; soil stabilization for subgrade pavement; type of asphalt concrete material testing and analysis of laboratory testing results; job mix formula and mix design of asphalt concrete; laboratory works; Introduction to asphalt mixing plant type, operations and production; Design criterion and method for highway flexible pavement based on empirical and analytical approaches, pavement design based on Sina Marga method and AASHTO method; design of Highway pavement stages construction; Design of rigid pavement, rigid pavement type; and type of joints; Highway pavement maintenance strategy; type of distresses, method of observation of distress types; type of maintenance and repair</p>		
266	Engineering	Civil Engineering	Undergraduate International Programme	Concrete Structure 1	ENCV616001	3	6	Depok	<p>Learning Objectives: After attending this class, students will understand about design concepts/load applied on structures, structural systems and be able to design structural members from steel according to procedures and design standards.</p> <p>Syllabus: Introduction to structural system analysis and design, design steps, LRFD, reduction factor and allowable stress; Loads and Loading; Load Forms, load types, location of loads, load distribution, load factor and load combination; Structural systems for steel structures; Materials and cutting properties of steel, work load tension, serviceability structures; Behavior of structural member with LRFD towards tension, bending and compression forces, and combination of bending and tension forces (beam-column, uniaxial) combination of bending and compression for steel structures, according to standards which apply, Connections.</p>		
267	Engineering	Civil Engineering	Undergraduate International Programme	River Engineering	ENCV617005	3	7	Depok	<p>Learning Objectives: Understand the sources and properties of surface runoff and sediment transport in river as well as effect of the changes to river stability (equilibrium/regime). Able to calculate surface runoff and sediment transport, also the relation with technical works of water structure and river control structure</p> <p>Syllabus : Definition of river system (DAS), utilization and river conservation, river characteristics and watershed; River hydrology; variation and effect of various variable in river flow, model stastic and deterministic of river flow; River hydraulics; various type of river flow from the view point of flow pattern, mathematic model and river flow physics, River morphology, sources and transport sediment mechanism, Mathematic model of river morphology, Effect of interaction between various hydrological, hydraulics, and morphological factors to river behavior; River control structure</p>		
268	Engineering	Civil Engineering	Undergraduate International Programme	Concrete Structure 2	ENCV617004	3	7	Depok	<p>Material behaviours; flexural and non-flexural behaviours; strut-and-tie modeling, shear, torsion, bond and bond length; Continuous beam design; Slab and floor system: two-way slabs with or without beams, direct design and portal equivalent, Yield Line Analysis; Column Designs: interaction diagram of square and circular column, biaxial bending, slender frame and column (braced and unbraced), moment magnification factor and P-<math>\delta</math> effect analysis, shear on columns; shear walls and high beams; Frame design analysis, detailing, beam-column connection, corbel and bearing; Foundations and footings; Durability and fire resistance; Introduction to pre-stressed concretes.</p>		

269	Engineering	Civil Engineering	Undergraduate International Programme	Sustainable Built Environment	ENCV617003	3		7	Depok	Principles of natural environmental systems and life cycle (cycle of matter and energy, hydrological cycle, food chain); Basic Principles of the built environment system and its impact on the natural environment and life cycle system (social system, ecosystem, built environment, the concept of niche, power capacity and resilience); Impact of development sector and infrastructure on the natural environment; Agenda 21 and environment-based development (global / national / local Agenda, social, environment and economic pillars in development); Sustainability concept of Civil Engineering (zero waste, efficiency, hierarchy waste management, waste and pollution carrying capacity of the environment, sustainable consumption and production); concept of Green Building (LEED) Green Building Criteria; Sustainable sites (EIA); Water efficiency; Energy and atmosphere; materials and natural resources; Innovation and design process; Green Building concept Strategy; Example of Green Building concept in Indonesia, and other nation; Environmental Law and other regulations, ISO 14001		
270	Engineering	Civil Engineering	Undergraduate International Programme	Civil Engineering System	ENCV617002	3		7	Depok	Learning Objectives: 1. The students are able to develop basic design of the alternative plans or the solutions of civil engineering problems based on problem formulation through literature study and field survey. 2. The students are able to do the basic study of the proposed project design based on field observation Syllabus : Introduction to the problem formulation and finding the solutions of civil engineering problems, introduction to the quantitative tools for planning and management of civil engineering system		
271	Engineering	Civil Engineering	Undergraduate International Programme	Entrepreneurship	ENCV618001	2		8	Depok			
272	Engineering	Civil Engineering	Undergraduate International Programme	Urban Planning and Sanitation	ENCV618005	3		8	Depok			
273	Engineering	Civil Engineering	Undergraduate International Programme	Stormwater Management	ENCV618004	3		8	Depok			
274	Engineering	Civil Engineering	Undergraduate International Programme	Construction Methods in Geotech	ENCV618003	3		8	Depok	Methods of implementation of the foundation in, get to know some of geotextile material, and case studies in the field Syllabus : The introduction of geotextile material in an effort to strengthen the soil and soil stabilization, as well as field case studies.Franky Pile and its method of implementation case studies in the field.Types of drilling in the ground. Foundation in the methods of implementation		
275	Engineering	Civil Engineering	Undergraduate International Programme	Steel Structure 2	ENCV618002	3		8	Depok	Calculation of continuous beams using plastic method; Beam-Column; Plate girder theory and analysis for buildings; Advanced joints engineering; portal and gable frame design; Structural analysis; steel-steel composite structures and steel-concrete composite structures in low-storey buildings; Concrete- prestressed steel composite structures and application of preflex system for buildings, Cold form section;Light Gage Members		
276	Engineering	Civil Engineering	Undergraduate International Programme	Enviro Impact Analysis & ISO		3		8	Depok	Understanding the EIA; the EIA process and the benefits; Rules and regulations as well as the procedure of EIA;initial environmental condition and setting;Appraisal of environmental impact;Environmental impact of physical and chemical, biological, social, economic, social and cultural; EIA methods; Methods and techniques of identification, prediction, evaluation and interpretation of the EIA;Environmental Management Plan (RKL); Environmental Monitoring Plan (RPL); Environmental Permit (Government Regulation 27/2012) and its principles; and Environmental Audit and Environmental Management System (ISO 14.000).		
277	Engineering	Mechanical Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal) Lab	ENGE610006	1		1	Depok			

278	Engineering	Mechanical Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal)	ENGE61005	3		1	Depok	<p>The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is used as a mathematical helping tool in the learning process. Students are given the opportunity to learn how to utilize their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill.</p> <p>Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.</p>		
279	Engineering	Mechanical Engineering	Undergraduate International Programme	Calculus 1	ENGE61001	3		1	Depok	<p>This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand basic concepts the functions of one variable, derivatives and integral functions of one variable, and its application.</p>		
280	Engineering	Mechanical Engineering	Undergraduate International Programme	Statistic and Probability	ENGE61010	2		1	Depok	<p>Statistics and probability has been known as applied mathematics which is widely used in collecting, organizing, presenting, interpreting and analyzing data to support valid conclusions. Furthermore, these conclusions will be used as recommendation in decision making. The course of Statistics and Probability is intended to give a basic ability for students to handle quantitative data and information. There are two stages that are delivered which is descriptive and inductive/inference stages. Descriptive stage includes collecting, organizing, and presenting the data in a scientific manner. Then, inductive/inference stage includes the process of estimating and drawing conclusion based on available data and relations between variables. Hence, students are expected to apply their knowledge of statistics in conducting experiments in laboratory works/assignments as well as research studies in their final projects.</p>		
281	Engineering	Mechanical Engineering	Undergraduate International Programme	Linear Algebra	ENGE61004	4		1	Depok	<p>This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices</p>		
282	Engineering	Mechanical Engineering	Undergraduate International Programme	Intro to Mechanical Engineering	ENME61101	2		1	Depok	<p>To give a description of mechanical engineering knowledge by describing scope, field and relation to other knowledges. By this course, student can understand the application and the knowledge of mechanical engineering in every sector. Memberikan gambaran tentang keilmuan teknik mesin dengan menyebarkan ruang lingkup, bidang, serta hubungan dengan keilmuan lain. Melalui mata ajaran ini, diharapkan mahasiswa memahami aplikasi dan keilmuan teknik mesin di berbagai sektor</p> <p>Syllabus: Mechanical engineering field, Mechanical engineering sub-field, mechanical engineering professional ethics, mechanical design, manufacturing process, force, structure and machine, material, fluid mechanics, energy and heat</p>		
283	Engineering	Mechanical Engineering	Undergraduate International Programme	Engineering Drawing	ENME61102	2		1	Depok	<p>Course participants are able to transfer geometric component by drawing according to standard draw which is recognized by International Standard Organization (ISO). Students understand the theory and procedure of engineering drawing based on ISO standard. Students are able to read, interpret, and transfer 2D/3D geometric draw from component or construction. Students are able to draw the orthogonal projection based on ISO standard.</p> <p>Syllabus: Illustration: Function and benefit of Engineering Drawing; SAP; Measurement and Evaluation; Introduction to drawing equipment; Basic definition of geometric, paper format, draw regulation, line, field, line configuration, basic geometric form; Visualization geometric: Skew projection and isometric, function and line types, configuration geometric form; Orthogonal Projection: Projection standard, viewing concept, width display principle; Advanced orthogonal projection: Circle region concept, special region concept, trimming concept, display width, refraction.</p>		



284	Engineering	Mechanical Engineering	Undergraduate International Programme	Physics (Electricity, MWQ)	ENGE610007	3		2	Depok	The Basic Physics 2 subject includes the topics of electricity, magnet, wave, and optics. Calculus is used as a mathematical helping tool in the learning process. Students are given the opportunity to learn how to utilize their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their soft skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyze the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept.		
285	Engineering	Mechanical Engineering	Undergraduate International Programme	Calculus 2	ENGE610002	3		2	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand the basic concept of function of two variables, or variables, total derivative and integral of the function of two or more variables and application. In addition, students can understand the basic concepts of sequence and series.		
286	Engineering	Mechanical Engineering	Undergraduate International Programme	Basic Chemistry	ENGE610009	2		2	Depok	As an engineer, you must have understanding on the chemistry that provides not only the basis for much of what goes on in our world but also that it is a vital, continually developing science. In this study the students will learn many subjects such as matter and measurement; atoms, molecules, and ions; stoichiometry; aqueous reactions; thermochemistry; properties of solutions; chemical kinetics; chemical equilibrium; and electrochemistry. Learning activities will be conducted through various methods, which consists of: problem-based learning (PBL), interactive lectures, question-based learning, discussion, demonstration and unguided structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid-semester exam and final exam.		
287	Engineering	Mechanical Engineering	Undergraduate International Programme	Physics (Electricity, MWQ) Lab	ENGE610008	1		2	Depok			
288	Engineering	Mechanical Engineering	Undergraduate International Programme	Statics	ENME612004	2		2	Depok	To understand the concept of force and force equilibrium in some construction so the student can calculate and analyze the equilibrium of construction by using static equilibrium law. Syllabus: Basic principle of engineering statics/Newton Law. Arrangement and decomposition of force in plane and space. Static equilibrium law. Support and support reaction. Frame construction.		
289	Engineering	Mechanical Engineering	Undergraduate International Programme	Engineering Material	ENME612005	2		2	Depok	Engineering materials are one of the basic knowledge in field of design, especially in mechanical engineering. From the discussion of the behavior of several materials, the students are expected to have the overview about several things that have to be the concern related to the working process or the specific need. The students are expected to have the basic ability to identify and explain the nature and behavior of materials related to the treatment in working process and specific need. Syllabus: Introduction to the importance of the engineering material science in mechanical engineering, atomic structure, crystalline material, metal and non-metal material, process, phase diagram and solidification, heat treatment process, mechanical behavior of crystalline material, elastic material, plastic deformation, crystal plasticity, method of material mechanical testing, dislocation, strengthening, failure and remaining lifetime of material, introduction to mechanical crack and steel mechanical structure behavior, material structure degradation, corrosion process, corrosion prevention, Oxidation, wear and erosion, concrete material behavior, wood, cement and its structure behavior.		
290	Engineering	Mechanical Engineering	Undergraduate International Programme	Mechanical Drawing	ENME612003	2		2	Depok	Students have the basic ability to visualize the information content of one component effectively, capable to create a model for 2D and 3D visualization with utilize the software and interpret the subject into a drawing that can be used as working guidance and can be understood clearly by the user. Syllabus: The purpose and the advantage of the drawing in the design and manufacturing process, surface working quality and tolerance, standard and marking classification of working quality, standard and marking classification of working tolerance, Welding construction, standard and marking of weld groove, line diagram, 2D and 3D representation method, introduction to modeling software interface, modeling, manipulation and 2D & 3D visualization.		

291	Engineering	Mechanical Engineering	Undergraduate International Programme	Measurement and Metrology	ENME613015	2		3	Depok	<p>Measurement and Metrology course is knowledge to study the concept of metrology and measurement in industry and the application of metrology and its tools. This course is study the relevance of the theory to the engineering application and manufacturing industry. This course will give the ability to the student to understand the theory and application of engineering measurement and metrology in mechanical engineering application</p> <p>Syllabus: The basic concept of measurement and metrology, measurement terminology and systems, industrial measurement and system terminology, temperature measurement, pressure and flow measurement, force, stress, data acquisition, motion measurement : position, velocity, vibration and acceleration, types of sensors/transducer, transfer function, FFT and filtering, uncertainty analysis, geometric and dimension calibration, room dimension, metrology (length measurement), surface texture, roughness and roundness, flatness and straightness, angle measurement, introduction to CMM</p>		
292	Engineering	Mechanical Engineering	Undergraduate International Programme	Basic Thermodynamics	ENME613008	4		3	Depok	<p>This course introduces the basic concept of thermodynamics and its application in real life and gives the understanding about the design of thermodynamics system.</p> <p>Syllabus : Scope and basic understanding of thermodynamics system, temperature concept, pressure, thermodynamics equilibrium, reversible/irreversible process, zero law of thermodynamics and absolute temperature, first law of thermodynamics, second law of thermodynamics, thermodynamics equation, gas power cycle, gas compressor, combustion engine cycle, internal combustion engine, simple gas turbine cycle, brayton's cycle, stirling's cycle, steam power cycle, refrigeration, carnot's cycle, simple rankine's cycle, rankine's cycle with modification, biner cycle, phycometric chart, cooling tower, real gas, real gas equation, enthalpy and entropy.</p>		
293	Engineering	Mechanical Engineering	Undergraduate International Programme	Engineering Mathematics	ENME610013	4		3	Depok	<p>Complete student's analytical ability. Students understand and able to use the advances mathematical concepts in order to solve the engineering problems.</p> <p>Syllabus: Introduction to differential equation, 1st order differential equation, 2nd order differential equation, higher order differential equation, vector analysis, vector differential, grad operation, divergence and cur, vector integration, laplace transform, laplace transform to solve the differential equation, fourier transform, convolution, numerical method, root of equation, numerical differentiation, numerical integral</p>		
294	Engineering	Mechanical Engineering	Undergraduate International Programme	Numerical Method	ENME610016	2		3	Depok	<p>The objectives of this course is that the student can understand and able to apply the process and method (algorithm) of engineering numerical method in computer-based computation and to understand the parameters that influence the speed and accuracy of calculation.</p> <p>Syllabus: Introduction to numerical method and programming, simple mathematical modeling, programming and software, structural programming, modular programming, iterative method, Function: function and function value, Taylor and Maclaurin series, approximation and error, Root of equation: graphical method, Bisection method, False-Position method, Newton – Raphson method, Secant method, Baisrlow method, Linear algebra equation system: Gauss elimination, Gauss-Jordan elimination, Decomposition and transformed matrices, Curve – Fitting, Least – Square regression, Interpolation; Numerical Integral: Trapezoid method, Simpson method, Double Integral; Differential equation: Finite Divided Difference, Euler method, Runge – Kutta method, Ordinary Differential Equation System</p>		
295	Engineering	Mechanical Engineering	Undergraduate International Programme	Strength of Materials	ENME613007	2		3	Depok	<p>The aim of this subject is student can calculate and analyze the stress in construction. Student able to solve the deflection and indeterminate statics.</p> <p>Syllabus: Moment and internal force diagram. Characteristics of energy, Deformation, stress &amp; strain. Stress due to normal force, shear, bending moment and torsion. Stress distribution, combination of stress. Deflection/beam deformation. Indeterminate static construction. Column. Energy method. Construction of thin and thick wall, rotating disc</p>		
296	Engineering	Mechanical Engineering	Undergraduate International Programme	Mechanical Modelling and Visualization	ENME613006	2		3	Depok			

297	Engineering	Mechanical Engineering	Undergraduate International Programme	HSE Protection	ENGE610012	2		4	Depok	<p>The teaching of Safety, Health and Environmental (SHE) protection to undergraduates studying engineering courses is an important part of the education of future engineers at all levels. It is the generally expressed view amongst practitioners in industry, business and other organisations that all engineers need to be equipped to appreciate, understand and implement the requirements of SHE management and practice to meet the working needs of industry and of their company (or other organisation). Whilst the level of risk and degree of control is dependent on the industry sector concerned the basic principles do not change. In addition, according to code of ethics of engineers, engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties.</p> <p>The module covers the regulation framework and standards, risk perception, assessment, and management and detail discussion on physical, chemical and process hazards, and related engineering and management controls. Maintenance of safety conditions, personal protective equipments, audit, incident and emergency planning are discussed in accordance to measures for improving students awareness to their daily activities within the campus premises and local environment.</p> <p>Learning activities will be conducted through various methods, which consist of: interactive lecture, question-based learning, discussion, demonstration and unguided structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam</p>		
298	Engineering	Mechanical Engineering	Undergraduate International Programme	Life Science for Engineer	ENME616024	2		4	Depok	<p>This course will study the basic knowledge and introduction to the aspect of life organism that have close relation to mechanical engineering field. The student will get the broad perspective of life science application in mechanical engineering.</p> <p>Syllabus: Introduction to cell, chemical aspect in biology; acid, carbohydrate, lipid, protein, nucleic acid; bioenergy and metabolism; aerobic and anaerobic respiration, photosynthesis; animal control system, temperature regulation and homeostasis; biomechanics, animal locomotion, scale effect; food and farm; environmental conservation, air, water, life science consideration in mechanical design</p>		
299	Engineering	Mechanical Engineering	Undergraduate International Programme	Basic Fluid Mechanics	ENME614011	4		4	Depok	<p>Fluid mechanics are one of the applied mechanical science branch that will be used to investigate, analyse, and learn the nature and the behavior of fluids. Fluid that will be explored could be a moving or stationary fluid. Fluid Mechanics course intends to complement the ability of a student to be able to apply the basic laws of fluid mechanics in practical engineering calculations of fluid mechanics and be able to analyze the behavior of the fluid and developing knowledge in the field of fluid mechanics.</p> <p>Syllabus: Fluid and its nature, fluid statics, the relative balance, concept and basic equations of fluid flow, dynamic of flow, the equation of fluid motion (Newton, Euler, Navier-Stokes), Basic Equation of Fluid Dynamics (Continuity, Energy and momentum), dimensional analysis and hydraulic similarity, ideal fluid flow, viscous flow, viscous flow: transition from laminar into turbulent flow, fully developed turbulent flow, flow around submerged objects, general characteristic of outside flow, concept and characteristic of layer in closed flow, measurement and visualization of flow, pressure measurement concept, flow and capacity, flow measurement devices (Pitot tube, Venturi, orifice, Nozzle, HWA, LDV), Flow visualization method</p>		
300	Engineering	Mechanical Engineering	Undergraduate International Programme	Material Selection & Manuf. Process	ENME613010	4		4	Depok	<p>To give the knowledge, understanding and competence about the theory, application method and product manufacturing process technology that consist of: characteristic and how the process work, process constraint, force and energy that needed in process, the effect of the process parameter to the product quality and the relation between process and material to the material characteristic that needed in every process.</p> <p>Syllabus: Manufacturing process and production system, materials in manufacture, theory and method in metal casting, theory and method of bulk formation, theory and method of sheet metal forming, theory and method of powder metallurgy, theory and method of machining/metal cutting process, theory and process of product surface quality improvement, theory and method of joining, theory and method of prototyping process, characteristic of engineering materials, correlation of material and process characteristic, process parameter control of material, Design of material selection and manufacturing process that related to the market needs (assignment)</p>		
301	Engineering	Mechanical Engineering	Undergraduate International Programme	Kinematics and Dynamics	ENME610009	4		4	Depok	<p>Students have the ability to understand the key concept of kinematics and dynamics of mechanical system and capable to analyze the movement, velocity, acceleration force and equilibrium.</p> <p>Syllabus: Vector velocity analysis, free body diagram, linear motion, velocity polygon, 2D motion, rectangular coordinates, N-T and pole, relative motion and velocity of 2 coincide/relate point, Coriolis acceleration and stiff body kinematics, Inertia Force, Statics, particle system, works, energy, impuls, linear-angular momentum, stiff body motion, works and energy, relative motion, rotating mass balancing and back &amp; forth motion, cam dynamics and Gyroscope</p>		
302	Engineering	Mechanical Engineering	Undergraduate International Programme	Lab of Production Process	ENME610007	1		4	Depok			

303	Engineering	Mechanical Engineering	Undergraduate International Programme	Mechanical Design	ENME614012	4		4	Depok	<p>Give the understanding about the application of engineering mechanic science and material strength in machine element. The students have the basic competence to design the machine element.</p> <p>Syllabus: Basic mechanical design review, design of joint : welding, solder, adhesive bonding, rivet, pin, bolt, nut, thread, axel, shaft, hub, roller &amp; lauch bearing, lubrication, wear and friction, spring, break, fixed and unfixed clutch, chain, belt, basic of gear, straight &amp; tilt bearing. Final Assignment : Design process consist of the understanding of purpose, load and calculation of machine element</p>		
304	Engineering	Mechanical Engineering	Undergraduate International Programme	Fluid System	ENME615018	1		5	Depok	<p>Fluid system is applied science and engineering of basic fluid science which studies the utilization of characteristic, behavior and properties of fluid and its flow behavior in various fluid machines i.e. rotodynamics, reciprocating, hydraulic and pneumatic system. The course is intended to equip student to understand characteristic of turbo fluid machines, hydraulic and pneumatic system and to be able to calculate and design a fluid system.</p> <p>Syllabus: Basic Thermo fluid in a Fluid System; Energy Transfer from Fluid to Rotor; Lagrangien and Eulerian Approach; Energy Transfer Components; Impulse and Reaction; Turbo machinery Analysis with Flow; Operational Aspects of Rotodynamic Machinery; Hydraulic Similarities on Fluid Machinery; Reciprocating Machinery; Classification, Main Component and Operating; Discharge and Coefficient Discharge; Work and Power; Basic Hydraulic Machines; Hydraulic Machines; Hydraulic Accumulator; Hydraulic Intensifier; Hydraulic Press; Hydraulic Crane; Hydraulic lift; Pneumatic System; Basic Laws, Pressure Drop Losses, Basic Control Valve of Pneumatic Circuit</p>		
305	Engineering	Mechanical Engineering	Undergraduate International Programme	Heat and Mass Transfer	ENME615017	4		5	Depok	<p>This course studies about the heat and mass transfer mechanism within a volume control system due to the temperature gradient, this course strictly related to the basic thermodynamics course. The purpose of this course is to develop the understanding from the students about several heat and mass transfer mechanism between two systems if the temperature gradient occur and the students able to calculate the heat transfer rate. The students capable to solve numbers of heat transfer problems using non-dimensional parameter.</p> <p>Syllabus: Fundamental of heat transfer, conduction heat transfer (1 dimensional and 2 dimensional), numerical analysis in conduction heat transfer/unsteady state, forced convection heat transfer, free convection heat transfer, boiling and condensation, heat exchanger, radiation, fundamental of mass transfer, steady state molecull diffusion, unsteady state molecull diffusion, convection mass transfer, convection mass transfer correlation, mass transfer apparatus</p>		
306	Engineering	Mechanical Engineering	Undergraduate International Programme	Control System	ENME615019	4		5	Depok	<p>System control is one of the sciences discussed about the method to control the value of parameters within a system. Parameters within the system in this course are base on physic that could be position, velocity, rotation, pressure, acceleration flow rate, temperature and other variables. This course aims for students to understand the basics, analysis, and engineering design and control system compensation techniques, and be able to choose a control system (controller) is right for a mechanical system.</p> <p>Syllabus: Introduction to system control, laplace transform, reverse laplace transform, solution for linier ordinary differential equation, mathematical modeling I-IV, control action, PID controller, electronic controller, pneumatic and hydraulic control, transient response analysis I and II, root place analysis, design of system control with root place analysis method, frequency response analysis, stability analysis, MATLAB laboratory activity, design of control system with response frequency method, discrete time system and Z-Transform, PID control and introduction to robust control, space condition analysis I-II, design of control system within space condition, liapunov stability analysis and optimum square control</p>		
307	Engineering	Mechanical Engineering	Undergraduate International Programme	Mechanical Vibration	ENME615014	2		5	Depok	<p>The students have an understanding of the key points and concepts of the mechanical vibrations of mechanical systems and have the basic competence to analyze the vibration behavior and what parameters can be controlled in order to vibration damping.</p> <p>Syllabus: Fundamental of mechanical vibration in mechanical system, oscillatory motion, free vibration, harmonic vibration, transient vibration, system with 2 degree of freedom and system with multi degree freedom, lumped parameters system and continue system, Lagrange equation, random and non-linier vibration</p>		
308	Engineering	Mechanical Engineering	Undergraduate International Programme	Design Assignment 1	ENME610001	2		5	Depok	<p>Student has the ability to design the system and mechanical product using previous knowledge and skill. From this course, student can work in team, communicate, report, present and defend the final project.</p> <p>Syllabus: Fundamental of mechanical design process; team work in design; process planning, understanding the problem and development of engineering specification; Concept Generation, Evaluation and Selection; Product Design Phase; Engineering Economics</p>		

309	Engineering	Mechanical Engineering	Undergraduate International Programme	Mechatronics	ENME616022	4		6	Depok	<p>This course provides the ability to design electrical-mechanical that properly meet the needs of a process specification and a design that given in a laboratory scale with the mechanical, electrical theory and automation control.</p> <p>Syllabus:  Mechatronics concept and theory, electronics analog system, electronics analog components, electronics digital system, analog and digital interface, sensors and actuators (electric motor, pneumatic, hydraulic), principles of microprocessor and microcontroller, microcontroller based control system theory, C/C++ programming for electrical-mechanical for control, programmable logic controller (PLC), Laboratory activity</p>		
310	Engineering	Mechanical Engineering	Undergraduate International Programme	Energy Conversion and Conservation	ENME616021	2		6	Depok	<p>This course discusses about the energy resources, type and classification of energy, energy conversion, energy consumption, basic concept of energy conversion, power resources and classification of energy conversion engines. The students understand the energy source, type of energy conversion engine, conversion and conservation of energy system, and also capable to perform a basic calculation of energy conversion engine performance and critical consideration of energy conversion.</p> <p>Syllabus:  Definition of energy and energy resources, type and energy classification, law and equation in energy conversion, energy profile (resources, reserves and the world's and Indonesia's energy needs), basic concept of energy conversion system, power resources and classification of energy conversion engine, fuel in energy conversion, renewable energy, non-renewable energy, classification of combustion engine, calculation for internal combustion engine performance, steam power plant, fluid machinery, cooling engine classification, thermodynamic cycle of cooling engine, energy conversion method in vehicle, industry and building</p>		
311	Engineering	Mechanical Engineering	Undergraduate International Programme	Design Assignment 2	ENME610002	2		6	Depok	<p>Student have ability to produce the prototype from the previous design in Design Assignment 1. Student can work in team, manage the project and present the final project.</p> <p>Syllabus:  Product Generation, Evaluation and Performance; Project Management; Product Evaluation or Mechanical System for Cost, Manufacturing, Assembling etc; Technopreneurship consideration</p>		
312	Engineering	Mechanical Engineering	Undergraduate International Programme	Electrical Power Engineering	ENME616023	2		6	Depok	<p>The objective of this course is to give the understanding of basic concept and practical application on electrical power engineering. Student also studies the general understanding of electrical power engineering terms and can work in team effectively.</p> <p>Syllabus:  Linear approach and signal analysis; History of development and basic physics of electrical power generation Electromechanical energy conversion; Single phase and Triple phase Transformer; Three phase generation</p>		
313	Engineering	Mechanical Engineering	Undergraduate International Programme	Maintenance & Condition Monitoring	ENME616020	3		6	Depok	<p>This course gives the understanding and the ability to analyze a system and design a system for maintenance and its procedure to improve the efficiency and reliability within a system. To give the understanding and competence to develop and implementation of vibration monitoring and engine condition so that the mechanical system reach the optimum performance.</p> <p>Syllabus:  Quality, Reliability and Maintainability, maintenance system strategy, failure analysis, design of maintenance system and scheduling, maintenance system organization, condition monitoring and condition based maintenance, computer based maintenance system, total productive maintenance (TPM) and its implementation, the effectiveness measurement of total productive maintenance, reliability based maintenance system, planning/measurement and standardization of maintenance work, quality of maintenance system, basic theory of vibration and engine condition, basic of engine condition monitoring, vibration monitoring device in several mechanical systems and engine condition analysis</p>		
314	Engineering	Mechanical Engineering	Undergraduate International Programme	Lab for Electrical Power Engineering	ENME610010	1		7	Depok	<p>The laboratory is intended to introduce electric power basic concept to electrical engineering students : motor and generator includes DC or AC transformer</p> <p>Syllabus:  Watt meter, volt meter, amp meter and transformer. Motor &amp; generators DC. Reading of 3 phase circuit power either with balanced or unbalanced load. One and three phase circuit testing for Y &amp; Δ. Power Transformer, solving by using open loop and closed loop circuit test. Autotransformer.</p>		
315	Engineering	Mechanical Engineering	Undergraduate International Programme	Laboratory Experiment for ECC	ENME610019	1		7	Depok			
316	Engineering	Mechanical Engineering	Undergraduate International Programme	Industrial Seminar	ENME610006	2		8	Depok			
317	Engineering	Electrical Engineering	Undergraduate International Programme	Fund. of Digital Systems + Lab	ENEE611001	3		1	Depok	<p>In this course, students will learn all design phases and implementations of a digital system. At the end of the course, students will be able to analyze simple digital circuits, and able to design digital systems using combinational and simple sequential building blocks. This lecture also involves several practical work in the laboratory to design, implement and verify digital logic systems using digital circuit simulation software.</p>		

318	Engineering	Electrical Engineering	Undergraduate International Programme	Academic Writing	ENEE61002	2		1	Depok	In this course students will learn how to create a proposal and scientific papers for publication. After following this course the student will be able to write scientific papers with a good structure, able to use the Bahasa Indonesia and English in scientific writing, and being able to use the software to write scientific papers with a good format.		
319	Engineering	Electrical Engineering	Undergraduate International Programme	Calculus	ENGE61003	4		1	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand the basic concept the function of two variables, the total derivative of the function of two or more variables and its application. Students are also expected to understand the basic concept of sequence and series and the basic concept of vector and analytical geometry.		
320	Engineering	Electrical Engineering	Undergraduate International Programme	Physics (Electricity, MWO)	ENGE61007	3		1	Depok	The Basic Physics 2 subject includes the topics of electricity, magnet, wave, and optics. Calculus is use as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their soft skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyze the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept.		
321	Engineering	Electrical Engineering	Undergraduate International Programme	Physics (Electricity, MWO) Lab	ENGE61008	1		1	Depok			
322	Engineering	Electrical Engineering	Undergraduate International Programme	Intro to Electrical Engineering	ENEE61003	2		1	Depok	After completing this course, students are able to explain the basic concepts of electrical engineering and its application in everyday life.		
323	Engineering	Electrical Engineering	Undergraduate International Programme	Electrical Materials	ENEE61004	2		1	Depok	After completing this course, students are able to explain the classification of electric materials; Being able to analyze the problems of electrical material;		
324	Engineering	Electrical Engineering	Undergraduate International Programme	Basic Computer and Laboratory	ENEE61205	3		2	Depok	After completing this course, students are able to explain the classification of electric materials; Being able to analyze the problems of electrical material;		
325	Engineering	Electrical Engineering	Undergraduate International Programme	Semiconductor Devices	ENEE61206	2		2	Depok	The student is able to apply the concept of physical Bonds were able to apply the concept of physical semiconductor material in electronics; An extension of the metal-semiconductor; An extension of p-n; An extension of current in p-n; Bipolar transistor; basic characteristics; The system of metal-oxide-semiconductor; Metal-Oxide-Semiconductor Field-Effect Transistors; 8 the development of the Electronic Device		
326	Engineering	Electrical Engineering	Undergraduate International Programme	Linear Algebra	ENGE61004	4		2	Depok	This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices		
327	Engineering	Electrical Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal)	ENGE61005	3		2	Depok	The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is use as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.		

328	Engineering	Electrical Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal) Lab	ENGE61006	1		2	Depok		
329	Engineering	Electrical Engineering	Undergraduate International Programme	Engineering Mathematics	ENEE61207	4		2	Depok	After completing this course, students are able to apply differential equations and several transformation functions for solving problems in the field of electrical engineering.	
330	Engineering	Electrical Engineering	Undergraduate International Programme	Electric Circuit 1	ENEE61208	3		2	Depok	After completing this course, students are able to calculate the electric charge, current, and voltage in a series basis. Able to explain voltage source, current source (freebound), resistors, and capacitors; Being able to compute the independent circuit using the superposition theorem, the transformation of the source, and Thevenin-Norton; Able to calculate the electric circuit analysis using the variables node (current series), mesh, super-node (circuit voltage), super-mesh; Being able to analyze the response time a series order and order-1-2;	
331	Engineering	Electrical Engineering	Undergraduate International Programme	Electric Circuit 2	ENEE61309	3		3	Depok	After completing this course, students are able to make a simple electric circuit design; Able to analyze a 3-phase circuit; Able to analyze electric circuit of frequency response order-1 and order-2; Able to analyze basic circuits shared ideal transformer and inductance; Able to make design of passive and active filter circuits by utilizing basic circuits; Able to analyze a 4 poles circuit.	
332	Engineering	Electrical Engineering	Undergraduate International Programme	Algorithm and Programming	ENEE61310	4		3	Depok	After completing this course, students are able to make the draft algorithms to solve the problem of computation and manipulation of data; Able to apply the concepts: Modular; Iteration and Recursion; Sorting; Searching; Array; Pointers; Linked List	
333	Engineering	Electrical Engineering	Undergraduate International Programme	Vector Analysis Complex Variable	ENEE61311	2		3	Depok	After completing this course, students are able to apply advanced mathematical concepts to the field of electrical engineering that includes the complex variable, Cauchy-Riemann equation; Integral Cauchy; Able to apply basic vector differential, integral vector (line, surface and volume), Green's theorem, the Divergence theorem, Gauss and Stokes <sup>1</sup> ; Able to apply the concept of Vector calculus, Complex numbers and functions	
334	Engineering	Electrical Engineering	Undergraduate International Programme	Electric Circuit Laboratory	ENEE61312	1		3	Depok	After completing this course, students are able to calculate the electric charge, current, and voltage in a series basis. Able to explain voltage source, current source (freebound), resistors, and capacitors; Being able to compute the independent circuit using the superposition theorem, the transformation of the source, and Thevenin-Norton; Able to analyze circuit ammeter, voltmeter, ohmmeter, and wheat-stone bridge; Able to calculate the electric circuit analysis using the variables node, super-node, mesh, super-mesh;	
335	Engineering	Electrical Engineering	Undergraduate International Programme	Electrical Power Engineering	ENEE61313	3		3	Depok	After completing this course, students are able to explain the concept of electric that includes generation, transmission and distribution; Being able to compute the parameters of electric machines.	
336	Engineering	Electrical Engineering	Undergraduate International Programme	Electrical Power Engineering Laboratory	ENEE61314	1		3	Depok	After completing this course, students are capable of testing characteristics of electric machines; Being able to classify the electrical machines	
337	Engineering	Electrical Engineering	Undergraduate International Programme	Telecommunication Engineering	ENEE61315	3		3	Depok	After completing this course, students are able to apply the basic concept of telecommunications engineering; Able to apply the concept of global communication systems; Capable of analyzing analog and digital modulation; Able to explain telephony system; Able to calculate the PCM and TDM, Digital Line Coding; Able to analyze telecommunications network: a basic Phone, the technique of grafting, signaling techniques, the concept of Queuing, a communications network radio, microwave, and fiber optics	
338	Engineering	Electrical Engineering	Undergraduate International Programme	Telecommunication Engineering Lab.	ENEE61316	1		3	Depok	After completing this course, students are able to put into practice the basic concept of telecommunications engineering; Being able to practice the communication system globally, analog and digital modulation, telephony system; PCM and TDM; Digital Line Coding; telecommunication network: telecommunications network: a basic Phone, the technique of grafting, signaling techniques, the concept of Queuing, a communications network radio, microwave, and fiber optic; Able to use the measure of telecommunications.	
339	Engineering	Electrical Engineering	Undergraduate International Programme	Probability and Stochastic Process	ENEE61317	3		3	Depok	After completing this course, students are able to apply the concepts of probability and stochastic processes in the field of electrical engineering.	

340	Engineering	Electrical Engineering	Undergraduate International Programme	Control Engineering	ENEE614018	3		4	Depok	After completing this course, students are able to apply the basic concept of control; Able to apply the concept of block diagrams, Time Response, system stability and steady-state error, root locus, frequency response; Capable of designing controllers with the bode diagram, and is able to analyze the state-space, capable of governing designing state-space.		
341	Engineering	Electrical Engineering	Undergraduate International Programme	Control Engineering Laboratory	ENEE614019	1		4	Depok	After completing this course, students are able to use the device data acquisition; Able to apply the response time, system stability and steady error, root locus design, frequency response, controllers with root locus, Bode's diagram with controller design, the introduction of PLC, state-space.		
342	Engineering	Electrical Engineering	Undergraduate International Programme	Electronics Circuits	ENEE614020	3		4	Depok	After completing this course, students are able to apply the basic concepts of electronics; Able to analyze basic electronics circuits; Able to compose electronic circuits by using electronic devices		
343	Engineering	Electrical Engineering	Undergraduate International Programme	Electronics Circuits Laboratory	ENEE614021	1		4	Depok	After completing this course, students are able to apply the basic concepts of electronics; Being able to practice the workings of a diode, transistor, circuit configuration, frequency response, amplifiers; Able to use electronic measuring instrument		
344	Engineering	Electrical Engineering	Undergraduate International Programme	Electromagnetics	ENEE614022	4		4	Depok	After completing this course, students are able to apply physical concept for electrical engineering; Able to apply Maxwell's equations on solving the problem of time variation in the form of an integral and differential, energy storage, and quasi static field and analysis of wave in time domain.		
345	Engineering	Electrical Engineering	Undergraduate International Programme	Electric Measurements	ENEE614023	2		4	Depok	After completing this course, students are able to explain the philosophy of electric quantity measurement; Able to calculate the threshold quantity of electricity that is safe; able to analyze a series of measurements		
346	Engineering	Electrical Engineering	Undergraduate International Programme	Electric Measurements Lab.	ENEE614024	1		4	Depok	After completing this course, students are capable of measuring electrical quantities; Able to choose the measuring instrument to suit the needs of measurement		
347	Engineering	Electrical Engineering	Undergraduate International Programme	Numerical Computation	ENEE614025	2		4	Depok	After completing this course, students are able to apply numerical methods in the form design computing algorithms and data manipulation;		
348	Engineering	Electrical Engineering	Undergraduate International Programme	Signal and Systems	ENEE614026	3		4	Depok	After completing this course, students are able to apply physical concept for electrical engineering; Able to apply the concept of linear systems for signal processing and digital filter design.		
349	Engineering	Electrical Engineering	Undergraduate International Programme	Microprocessor and Microcontroller	ENEE615027	4		5	Depok	After completing this course, students are able to implement the algorithm into a high level programming language and low level; Able to implement Microprocessors and programming addressing mode in Assembly language for Microprocessors.		
350	Engineering	Electrical Engineering	Undergraduate International Programme	Microprocessor and Microcontroller Lab.	ENEE615028	1		5	Depok	After completing this course, students are able to implement the algorithm into a high level programming language and low level; Capable of practicing Microprocessors and programming addressing mode in Assembly language for Microprocessor.		
351	Engineering	Electrical Engineering	Undergraduate International Programme	Digital Control Systems	ENEE615029	3		5	Depok	After completing this course, students are capable of analyzing discrete control system; Able to explain the characteristics of discrete systems; Capable of analyzing the stability of discrete systems; Able to design a simple discrete controller; Able to make discrete controller design method: root locus, and pole placement; Able to make the design of state observer of discrete Full order observer, and Reduced order observer		
352	Engineering	Electrical Engineering	Undergraduate International Programme	Communication Networks	ENEE615030	3		5	Depok	After completing this course, students are able to explain mathematical concepts with regard to the concept of communication networks; Able to explain the concept of circuit switching and packet switching as well as concepts related to communication traffic; Able to explain the concept of queuing and queue theories for communication network; Able to explain concepts and mechanisms of QoS on the network communication		
353	Engineering	Electrical Engineering	Undergraduate International Programme	Power Electronics and Laboratory	ENEE615031	3		5	Depok	After completing this course, students are able to design simple application field of electric power; Able to explain the philosophy of power electronics equipment; Capable of calculating parameters on power electronics circuits; Able to design simple circuits using power electronics equipment		



354	Engineering	Electrical Engineering	Undergraduate International Programme	Modelling and Simulation	ENEE616033	2	6	Depok	After completing this course, students are able to establish mathematical model system, capable of performing the analysis of mathematical models of the system, able to build simulations based on mathematical models. Capable of analyzing simulation system.		
355	Engineering	Electrical Engineering	Undergraduate International Programme	Introduction of Nanoelectronics	ENEE616034	3	6	Depok	After completing this course, students are able to analyze recent developments in the field of electronics and photonic: Being able to analyze the workings of the Nano-electronic and Nano-photonics device.		
356	Engineering	Electrical Engineering	Undergraduate International Programme	Communication System Devices	ENEE616035	3	6	Depok	After completing this course, students are able to analyze various subsystem communication devices: Able to analyze transmission line, adjustment circuit, resonator, filter, amplifier, LNA, oscillator, mixer; Able to design the subsystems communication device based on active component for radio wave.		
357	Engineering	Electrical Engineering	Undergraduate International Programme	HSE Protection	ENGE610012	2	7	Depok	The teaching of Safety, Health and Environmental (SHE) protection to undergraduates studying engineering courses is an important part of the education of future engineers at all levels. It is the generally expressed view amongst practitioners in industry, business and other organisations that all engineers need to be equipped to appreciate, understand and implement the requirements of SHE management and practice to meet the working needs of industry and of their company (or other organisation). Whilst the level of risk and degree of control is dependant on the industry sector concerned the basic principles do not change. In addition, according to code of ethics of engineers, engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties. The module covers the regulation framework and standards, risk perception, assessment, and management and detail discussion on physical, chemical and process hazards, and related engineering and management controls. Maintenance of safety conditions, personal protective equipments, audit, incident and emergency planning are discussed in accordance to measures for improving students awareness to their daily activities within the campus premises and local environment. Learning activities will be conducted through various methods, which consist of: interactive lecture, question-based learning, discussion, demonstration and ungraded structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam		
358	Engineering	Electrical Engineering	Undergraduate International Programme	Engineering Entrepreneurship	ENEE617037	2	7	Depok	After completing this course, students are able to implement the concepts and skills of entrepreneurship in the field of electrical engineering; Able to perform analysis and make the business plan expertise in innovation/product which corresponds to the development of information technology; Able to implement the concepts and skills of entrepreneurship in the field of electrical engineering		
359	Engineering	Electrical Engineering	Undergraduate International Programme	Electric Power System and Lab	ENEE617038	3	7	Depok	After completing this course, students are able to analyze the magnetic and electric field high on power system; Able to explain the philosophy of power system; Able to calculate the parameters of power network; Capable of analyzing system of electric power network; Being able to find a solution to the problem of the quality of electric power; Being able to analyze the source of disturbance in the generation, transmission, and distribution of electricity; Capable of minimizing the effects of disturbance on electric power systems.		
360	Engineering	Electrical Engineering	Undergraduate International Programme	Process Control Systems	ENEE617039	3	7	Depok	After completing this course, students are able to identify the model of dynamical systems of industrial processes; Able to explain measurement techniques of dynamical systems of industrial processes; Able to explain the characteristics of industrial processes; Able to describe systems of industrial processes; Able to identify industrial process modeling method		
361	Engineering	Electrical Engineering	Undergraduate International Programme	Photonic Devices	ENEE617040	3	7	Depok	After completing this course, students are able to explain the working principle of passive and active photonic, able to apply the principles of physics and mathematics to calculate the variable change device photonics, able to determine the independent device photonic, able to explain passive photonic device and optical, lattice (grating), polarization; and active photonic device: laser, LED, and photodetector; able to compute using Photonic device variables theory of light: the law of Snell, Fresnel equation, Fermat's law, polarization, able to determine variables NA, attenuation, dispersion, mode sense, dispersive power, Registrar, power, free spectral range, coherence, vector and matrix Jones		
362	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Calculus 1	ENGE 6 1 0001	3	1	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand basic concepts the functions of one variable, derivatives and integral functions of one variable, and its application.		

363	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Physics (Mechanic & Heat)	ENGE 6 1 0005	3		1	Depok	<p>The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is used as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to utilize their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill.</p> <p>Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.</p>		
364	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Physics (Mechanic & Heat) Laboratory	ENGE 6 1 0006	1		1	Depok			
365	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Basic Chemistry	ENGE 6 1 0009	2		1	Depok	<p>As an engineer, you must have understanding on the chemistry that provides not only the basis for much of what goes on in our world but also that it is a vital, continually developing science. In this study the students will learn many subjects such as matter and measurement; atoms, molecules, and ions; stoichiometry; aqueous reactions; thermochemistry; properties of solutions; chemical kinetics; chemical equilibrium; and electrochemistry. Learning activities will be conducted through various method, which consists of: problem based learning (PBL), interactive lecture, question-based learning, discussion, demonstration and unguided structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam.</p>		
366	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Engineering Drawing	ENMT 6 1 001	2		1	Depok	<p>Description: This subject gives a knowledge to communicate the geometry of component through engineering drawing which conforms with drawing standard acknowledged by International Standard Organization (ISO)</p> <p>Learning Objectives:</p> <ol style="list-style-type: none"> <li>1. Understand the engineering drawing theory and procedure which conform with ISO standard</li> <li>2. Able to read, transfer, and communicate 2D/3D geometrical drawing of component, and able to draw a projection which conform with ISO standard</li> </ol> <p>Syllabus: Function and benefit of Engineering Drawing; SAP; Measurement and Evaluation; Introduction to drawing equipment; Basic definition of geometric, paper format, draw regulation, line, fill, line configuration, basic geometric form; Visualization geometric: Skew projection and isometric, function and line types, configuration geometric form; Orthogonal Projection: Projection standard, viewing concept, width display principle; Advanced orthogonal projection: Circle region concept, special region concept, trimming concept, display width; refraction.</p>		
367	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Introduction to Engineering Materials	ENMT 6 1 002	2		1	Depok	<p>Description: This subject gives the basic of materials used in engineering applications, and explain their characteristics and manufacturing process</p> <p>Learning Objectives: Students are able to explain about the field of engineering materials, their types, characteristics, and processing methods for engineering applications.</p> <p>Syllabus: (1) Types of engineering materials and their applications; (2) Structures of engineering materials; (3) Properties of material; (4) Manufacturing and Processing of Metallic Materials; (5) Steel and iron: production and properties; (6) Aluminum: production and properties; (7) Other non-ferrous alloys: production and properties; (8) Polymer: processing and properties; (9) Ceramic: processing and properties; (10) Composite: processing and properties</p>		
368	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Thermodynamics of Materials	ENMT 6 1 003	3		1	Depok	<p>Description: This subject gives the basic concept of material thermodynamics</p> <p>Learning Objectives: Students are able to explain the thermodynamics of materials and its application in materials engineering</p> <p>Syllabus: Definition of thermodynamics, first, second, and third law of thermodynamics, statistical interpretation of entropy, auxiliary functions, heat capacity, enthalpy and entropy, phase equilibrium in a component, gas and solution behavior, free energy, binary system composition, reaction of pure condensation phase and gas phase, equilibrium reaction of a system in a solution component</p>		
369	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Basic Chemistry Laboratory	ENMT 6 1 004	1		1	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply the principles of basic chemistry, and able to make an analysis and explain the phenomenon of the experiments in the laboratory</p> <p>Syllabus: Physical and chemical properties; Separation and purification of the substance; Identification of alkali metal ions, alkaline earth, ammonium, sulfate, iodide, bromide and nitrate; acid-base titration; metal and acid reaction; Water crystals</p>		

370	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Linear Algebra	ENGE 6 1 0004	4		2	Depok	This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices		
371	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Calculus 2	ENGE 6 1 0002	3		2	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand the basic concept the function of two variables, or variables, total derivative and integral of the function of two or more variables and application. In addition, students can understand the basic concepts of sequence and series.		
372	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Physics (Electric, Magnet, Wave & Optic)	ENGE 6 1 0007	3		2	Depok	The Basic Physics 2 subject includes the topics of electricity, magnet, wave, and optics. Calculus is used as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their soft skills, such as independent and group work and their communication skill. Students will also be train on how to explain and analyze the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept.		
373	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Physics (Electric, Magnet, Wave & Optic) Laboratory	ENGE 6 1 0008	1		2	Depok			
374	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Statistics & Probability	ENGE 6 1 0010	2		2	Depok	Statistics and probability has been known as applied mathematics which is widely used in collecting, organizing, presenting, interpreting and analyzing data to support valid conclusions. Furthermore, these conclusions will be used as recommendation in decision making. The course of Statistics and Probability is intended to give a basic ability for students to handle quantitative data and information. There are two stages that are delivered which is descriptive and inductive/inference stages. Descriptive stage includes collecting, organizing, and presenting the data in a scientific manner. Then, inductive/inference stage includes the process of estimating and drawing conclusion based on available data and relations between variables. Hence, students are expected to apply their knowledge of statistics in conducting experiments in laboratory works/assignments as well as research studies in their final projects.		
375	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Polymer Chemistry	ENMT 6 1 2 005	4		2	Depok	Description: This subject gives the principal of organic chemistry and its relationship with polymer materials Learning Objectives: Students are able to explain organic chemistry principles which influence the molecule behaviour of polymer materials Syllabus: Fundamentals of organic chemistry (bonding atom and molecule, polar molecules, free radicals, the nomenclature of organic compounds, isomer, conjugation and resonance), Reaction types of organic compounds, addition reactions, nucleophilic and electrophilic substitution, elimination, rearrangement, and radical reaction mechanism. Basic Properties of Polymer Chemistry		
376	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Transport Phenomenon	ENMT 6 1 2 006	3		2	Depok	Description: This subject gives the knowledge about fluid flow concept Learning Objectives: Students are able to explain the basic principle of fluid flow, heat transfer, and mass transfer Syllabus: Mass transfer, Fluid flow concept, Laminar flow, momentum conservation, Turbulent flow, Enthalpy & heat transfer, Solid & liquid diffusion mass transport		
377	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Health, Safety & Environment	ENGE 6 1 0012	2		3	Depok	The teaching of Safety, Health and Environmental (SHE) protection to undergraduates studying engineering courses is an important part of the education of future engineers at all levels. It is the generally expressed view amongst practitioners in industry, business and other organisations that all engineers need to be equipped to appreciate, understand and implement the requirements of SHE management and practice to meet the working needs of industry and of their company (or other organisation). Whilst the level of risk and degree of control is dependant on the industry sector concerned the basic principles do not change. In addition, according to code of ethics of engineers, engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties. The module covers the regulation framework and standards, risk perception, assessment, and management and detail discussion on physical, chemical and process hazards, and related engineering and management controls. Maintenance of safety conditions, personal protective equipments, audit, incident and emergency planning are discussed in accordance to measures for improving students awareness to their daily activities within the campus premises and local environment. Learning activities will be conducted through various methods, which consist of: interactive lecture, question-based learning, discussion, demonstration and ungraded structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam		

378	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Chemical Characterization of Materials	ENMT 6 13 007	2	3	Depok	<p>Description: This subject gives the knowledge for chemical characterization of materials by utilizing analytical equipment such as mass spectroscopy, UVVIS, TGA, DSC etc.</p> <p>Learning Objectives: Students are able to explain the basic concept of materials' physicochemistry characterization and their application</p> <p>Syllabus: Review of structure and physicochemical characteristics of materials, concept of material analysis (qualitative and quantitative), principal of analysis instrument from spectroscopy method (UVVIS, FTIR, XRF, Spark Emission) and thermal method (TGA, DSC/DTA, MFI and Vicar), material characterization strategy.</p>		
379	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Electro-Chemistry	ENMT 6 13 008	3	3	Depok	<p>Description: This subject gives the basic concept of electrochemistry which provides as basic knowledge for corrosion and protection on metals</p> <p>Learning Objectives: Students are able to explain the basic concept of electrochemistry, iron ore processing by extraction methods i.e. electrowinning and electrorefining.</p> <p>Syllabus: Basic concepts and applications of electrochemistry, and conductivity solution, Faraday's law, and their application. Electrode electrochemical cell (definition, potential, equation Nernst, electrical double layer, the polarization, the measurement of potential, free energy and electrode potential, equilibrium potential), the reference electrode, Construction Pourbaix diagram and its application. Electrochemical kinetics, electrode reaction speed, mixed potential theory, Evans-diagram, the mixed-potential diagram</p>		
380	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Heat Treatment & Surface Engineering	ENMT 6 13 009	3	3	Depok	<p>Description: This subject gives the knowledge heat treatment process that commonly used to improve the material strength, and several surface engineering to improve the surface properties of materials</p> <p>Learning Objectives: Students are able to explain several process of heat treatment, able to decide the most appropriate treatment for specific materials, obtain the correct microstructure for specific mechanical properties, and able to give analysis of heat treatment behaviour</p> <p>Syllabus: Definition of heat treatment, phase transformation and microstructure, TTT and CCT diagram, the influence of heating and cooling rate, stable and metastable microstructure, hardenability, the influence of alloying element, hardening, softening, temper brittleness, distortion and its prevention, carburization, nitro-carburizing, nitriding, boronizing, PVD, CVD, advanced surface engineering, non-ferrous heat treatment, various heat-treating furnace and its atmosphere, deviation in heat treatment process, special heat treatment, case study of heat treatment and surface engineering</p>		
381	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Physical Metallurgy 1	ENMT 6 13 010	4	3	Depok	<p>Description: This subject gives the basic principal of physical metallurgy which explains about the relationship of atomic structure in materials with their characteristics and properties.</p> <p>Learning Objectives: Students are able to explain: (i) structure of solid materials and its effect on materials characteristics; (ii) concept of dislocation theory in crystalline solids and their effect on materials characteristics; and (iii) dislocation theory applications on materials strengthening</p> <p>Syllabus: (1) Definition of crystal; (2) Crystal lattice; (3) Unit cell; (4) Bravais lattice; (5) Miller index for planes and direction; (6) Stereographic projection; (7) Crystal symmetry; (8) Formation of crystal; (9) Identification of crystal; (10) Crystal defects: point defects, line defects (dislocations), edge dislocations, screw dislocations, burgers vector, movement of dislocations; energy of dislocation, dislocations in FCC, BCC and HCP structures, planar defects; (11) Fatigue and Fracture of Materials; (12) Creep of Materials; (13) Strengthening Mechanism: strain (work) hardening, grain boundary strengthening, solid solution strengthening, precipitation (two-phase) strengthening, steel alloys strengthening, composite strengthening, study case in materials strengthening.</p>		
382	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Polymer Technology	ENMT 6 13 011	3	3	Depok	<p>Description: This subject gives the knowledge polymer material technology and its application</p> <p>Learning Objectives: Students are able to explain the characteristics of polymer product, raw material formulation, and fabrication process</p> <p>Syllabus: Relationship of structure and behaviour of polymer molecule, polymer material characteristics (thermal, chemical, mechanic, optic and electrical), fabrication process stages (formulation, continuous &amp; discontinuous manufacturing, product finalization) on thermoplastic, thermosetting and rubber product, polymer raw material formulation, case study of polymer product in packaging, automotive, electronic and construction application</p>		

383	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Static & Mechanic of Materials	ENMT 6 13 012	3	3	Depok	<p>Description: This subject gives the relationship of several types of stress working on simple structures such as beam, column, cable, pressured vessel, and axle</p> <p>Learning Objectives: Students are able to calculate and make analysis of several forces working on solid such as beam, column and cable, able to calculate internal forces such as axial, shear, moment, and torsional forces, and able to design structural beam, column, pressured vessel and axle</p> <p>Syllabus: General principle of mechanics, Vector and forces, Equilibrium points, Resultant of forces, Structure analysis, Center of gravity and centroid, Moment inertia, Internal forces, Friction, The concept of stress strain, Relation of stress and strain in axial loading, Twisting, Buckling, Transversals loading, Stress analysis, Design of shaft and beam, Beam deflection, Structural joints, Column and thick cylinder, Energy method.</p>		
384	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Corrosion & Protection of Metals	ENMT 6 14 013	3	4	Depok	<p>Description: This subject gives the explanation of metal degradation and their preventive methods</p> <p>Learning Objectives: Students are able to explain the cause of metal degradation and several methods to prevent them</p> <p>Syllabus: Principles of corrosion, kinetics of corrosion, polarization, passivation, measurement of corrosion rate, metallurgical aspects, corrosion tests, forms of corrosion, high temperature corrosion, cathodic protection, anodic protection, coating, inhibitor, materials selection and design, monitoring and inspection, analysis of corrosion driven-damage, standards related to corrosion</p>		
385	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Iron & Steel Making Process	ENMT 6 14 014	2	4	Depok	<p>Description: This subject gives the basic principle of fabrication process for ferrous based materials</p> <p>Learning Objectives: Students are able to explain the fabrication process of steel and iron, from the mineral ore into raw material for product</p> <p>Syllabus: Classification and the development of steel (iron ores, reductor, etc.) and their preparatory process, thermodynamics and kinetics of iron and steel making process, blast furnace reduction of iron ores, direct reduction (hysar, midrex, rotary kiln SL-RN, rotary hearth), smelting reduction, desulfurization, deoxidation, dephosphorisation, degassing, steel making in EAF (Electric Arc Furnace) and BOF (Basic Oxygen Furnace), secondary metallurgy process, continuous casting, hot and cold rolling, special steel making</p>		
386	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Mineral Processing	ENMT 6 14 015	4	4	Depok	<p>Description: This subject gives explanation of the stages and process of mineral ore</p> <p>Learning Objectives: Students are able to explain the process of mineral ore processing and their equipment</p> <p>Syllabus: Understanding mineralogy, classification of minerals, mineral properties, mineral that has economic value, Terminology and basic concepts of processing mineral / ore, potential sources of mineral / ore that can be processed in a technically and economically, the processes of size reduction (comminution), The process of crushing, screening process, grinding process, the classification process, process of separation/concentration: Gravity concentration, Concentration Heavy Jigging Flowing Film, Media Separation, Flotation process, Magnetic Separation, High Tension Separation, Dewatering and Thickening process</p>		
387	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Numerical Computation	ENMT 6 14 016	2	4	Depok	<p>Description: This subject gives the basic of numerical modeling by using software, and its application in material engineering</p> <p>Learning Objectives: Students are able to explain numerical modeling by using MATLAB and SOLIDWORKS</p> <p>Syllabus: Introduction to models, types of models, basics of Matlab, array in Matlab, if and switch selection, loop in Matlab, function and m-file in Matlab, linear equation, Taylor expansion method, Euler, differential equation, basic of solid works, solid modeling, basics of simulink, first and second order simulink</p>		
388	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Physical Metallurgy 2	ENMT 6 14 017	3	4	Depok	<p>Description: This subject gives the concept of equilibrium system and phase transformation in materials</p> <p>Learning Objectives: Students are able to explain the concept of equilibrium system and phase transformation</p> <p>Syllabus: (1) Concept of Equilibrium: single component system, binary component system, the phase rule, binary phase diagrams; (2) Fe-Fe<sub>3</sub>C Phase Diagram; (3) Ternary Equilibrium: ternary system representation, ternary system containing 2 phase, ternary system containing 3 phase; (4) Diffusion in Materials: atomic mechanism of diffusion, interstitial diffusion, substitutional diffusion; (5) Crystal Interfaces and Microstructure: interfacial free energy, grain boundary, interphase interfaces in solids, interface migration; (6) Solidification: nucleation in pure metals, growth of a pure solid, solidification of alloy, solidification of ingots and castings, solidification of fusion welds, rapid solidification; (7) Diffusional Transformation in Solids: homogeneous and heterogeneous nucleation in solids, precipitate growth, transformation kinetics, selected transformation, ordering transformation; (8) Diffusionless Transformation in Solids: theories of martensite nucleation, martensite growth, tempering of ferrous martensite, martensite transformation in nonferrous metals, case study in diffusionless transformation</p>		

389	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Tech. of Microstructural Analysis	ENMT 6 1 4 018	2		4	Depok	<p>Description: This subject gives the knowledge of microstructural analysis methods through visual observation by microscope, and by advanced characterization using instrumen such as FIB, EBSD, XRF, OES etc.</p> <p>Learning Objectives: Students are able to explain principle of chemical characterization, advanced metallography and their application for structural design purposes.</p> <p>Syllabus: Techniques of microstructure analysis, Phase formation and general characteristic of material structures, Microstructure of steel: stable and metastable phases and the formation and mechanism, Microstructure of non-ferrous alloys: aluminum, copper, titanium, Macrostructure, Sampling techniques, Samples preparation, Observation techniques with optical and electron microscopes, Special measurements: micro-hardness, coating thickness, roughness, Quantitative metallography, grain size, volume fraction of phases and precipitates, FIB, EBSD, EDS, XRF, OES, XRD.</p>		
390	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Testing of Materials	ENMT 6 1 4 019	2		4	Depok	<p>Description: This subject gives the basic concept of materials testing and their application in material engineering</p> <p>Learning Objectives: Students are able to explain the principles of destructive and non-destructive materials testing, and their application in materials engineering</p> <p>Syllabus: Introduction to material testing, Review of mechanical behavior of materials, Data analysis and presentation of test results, Testing procedures, Testing machine and instruments, Standardization of materials testing, Destructive testing (tensile, compression, shear, fatigue, stress relaxation, and wear), Non-destructive (visual, penetrant, ultrasonic, radiography, eddy current and magnetic particle)</p>		
391	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Chemical Characterization of Materials Laboratory	ENMT 6 1 4 020	1		4	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply the qualitative and quantitative analysis methods, and able to do precise calculation to determine the element in the solution.</p> <p>Syllabus: Quantitative and qualitative analysis of organic and anorganic matter using titrimetry method</p>		
392	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Corrosion & Protection of Metals Laboratory	ENMT 6 1 4 021	1		4	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply (i) corrosion principles, (ii) corrosion potential measurement, (iii) cathodic protection, (iv) metal protection method</p> <p>Syllabus: Corrosion cells, corrosion potential measurement of selected metals, polarization of stainless steel, cathodic protection, surface treatment.</p>		
393	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Industrial Management	ENMT 6 1 5 022	2		5	Depok	<p>Description: This subject gives the knowledge about industrial management and several important aspects supporting the industry especially in Indonesia</p> <p>Learning Objectives: Students are able to explain the theory, organization, and function of industrial management</p> <p>Syllabus: Introduction to industrial management, organization and management functions, theories and techniques of decision-making, management of production / operations, the strategic decisions of products and processes, location and layout, management and control of stocks (inventory), R &amp; D, project management, QC and productivity, management production practices, marketing and industrial management, HR management, IT and manufacturing industry, manufacturing industry in Indonesia</p>		
394	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Metal Manufacturing Process	ENMT 6 1 5 023	4		5	Depok	<p>Description: This subject gives the knowledge of several metal manufacturing process by melting, solid, and powder routes</p> <p>Learning Objectives: Students are able to explain the principles, phenomenon, basic mechanism, and forming technique from solid, liquid, powder phases, and able to analyze and choose the appropriate method for particular material to obtain the best product quality</p> <p>Syllabus: The forming of metals as a part of design process and manufacture; fundamentals of metal casting (mould, molten metal, solidification), mould (sand, ceramic, metal), pouring system (pattern, riser, pressure and unpressure, chill) and its simulation, solidification of cast iron and aluminum, liquid treatment for ferrous metals (inoculation, Mg treatment) and non-ferrous (modifier, grain refiner), various methods of casting, casting defect; common principle of solid forming of a metal, techniques of metal forming through: pressing, forging, rolling, extrusion, wire drawing, sheet metal forming; thermo-mechanical processing (TMP), General principle of powder metallurgy, powder fabrication and mechanism of powder forming, powder characteristics and characterization, mechanical alloying, pre-compaction process, compaction, precursor characteristic, sintering and powder consolidation, full density processing, sintering equipment and related aspects, application of powder metallurgy products</p>		

395	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Non Ferrous Extractive Metallurgy	ENMT 6 1 5 024	3		5	Depok	<p>Description: This subject gives the knowledge about the extraction process for non-ferrous materials in Indonesia</p> <p>Learning Objectives: Students are able to explain the basic principle and extraction methods for non-ferrous materials in Indonesia such as Al, Cu, Ni, Sn, Pb, Au, and their alloys, and also the application and development of the process</p> <p>Syllabus: Basic principles of extractive metallurgy (pyrometallurgy, hydrometallurgy and electrometallurgy). Process/treatment process of ore to be extracted. Leaching method of oxide and sulfide ores, Bayer process, Al, Au leaching by cyanidation (Leaching, precipitation techniques: ion exchange, solvent extraction; reverse osmosis). Electrometallurgy (Electro winning and electro refining). Molten salt electro winning. Hall process. Electro winning of Mg, Ti. Secondary metals. Obtaining metals from scrap and secondary sources by using pyro, hydro, and electrometallurgy. Pyrometallurgy, mineral separation, slag, blast furnace, raw materials, reactions, material balance, iron ore, roasting, smelting, refining of Sn, Ni, Cu, Zn, Pb.</p>		
396	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Tech. of Microstructural Analysis Laboratory	ENMT 6 1 5 025	1		5	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply the metallography testing procedures, and create a systematic report based on the standard</p> <p>Syllabus: Metallographic sample preparation (techniques of cutting, grinding, polishing and etching), micro-structural analysis techniques of metal (ferrous and non-ferrous) with an optical microscope</p>		
397	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Testing of Materials Laboratory	ENMT 6 1 5 026	1		5	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply the destructive test procedures, and create a systematic report based on the standard</p> <p>Syllabus: Tensile test, Compressive test, Micro and Macro Hardness test, Impact Test, Wear Test</p>		
398	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Ceramic Technology	ENMT 6 1 6 027	3		6	Depok	<p>Description: This subject gives the basic principle ceramic materials and their applications</p> <p>Learning Objectives: Students are able to explain the basic principles of ceramics materials, manufacturing technology, and their application in engineering</p> <p>Syllabus: Introduction to ceramics (general), crystal structure, glass structure, phase diagrams, phase transformations. Properties of ceramics: thermal, optical, mechanical, electrical and magnetic fields, as well as the nature dielectrics. Manufacture of ceramic technology and applications: conventional ceramic (aluminum-silicate; clay, glaze); cement and concrete; glass and advanced ceramics (advanced ceramics). The processes for modern ceramics, ceramic thin film, ceramic for field application of mechanical, electronic, optical and magnetic. Based ceramic matrix composites. Refractory ceramics. Refractory raw materials, types of refractories: refractory system Aluminium - silica, silica refractories, refractory magnesite, chromite refractories, refractory carbon, special refractories. Manufacture of refractories, the use of refractory metals in the industry and others, as well as the failure mechanism of refractory.</p>		
399	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Composite Technology	ENMT 6 1 6 028	3		6	Depok	<p>Description: This subject gives the basic principle of composite materials and their applications</p> <p>Learning Objectives: Students are able to explain composite materials, development and applications, and able to calculate the physical properties by using rule of mixture</p> <p>Syllabus: The concept, definition and clarification of the composite, matrix and reinforcement type for composites, metal matrix composite, polymer matrix composite, ceramic matrix composite, fiber composite nature. Reinforced fibers and whiskers, the rule of mixtures, the interface in composite materials, interfacial area, Interfacial Wettability, interfacial bonding</p>		
400	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Materials Joining	ENMT 6 1 6 029	3		6	Depok	<p>Description: This subject gives several joining methods for best joining result</p> <p>Learning Objectives: Students are able to explain and choose the most appropriate methods for joining for particular material to get the best result</p> <p>Syllabus: Principles of various material joining and its classification, adhesive bonding, mechanical joining, methods of welding: fusion welding (electric arc), electrical resistance welding, pressure welding (solid state welding), other welding process (EBW, laser welding, thermit welding, underwater welding), soldering and brazing, design of joint and welding symbol, welding metallurgy: carbon steel, low alloy steel, stainless steel, concrete steel, non ferrous, WPS and welding standards and code, weld defect and its prevention, control of joint and its testing</p>		

401	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Extractive Metallurgy Laboratory	ENMT 6 1 6 030	1	6	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply several metal extraction methods &amp; electrometallurgy</p> <p>Syllabus: Metals extraction test and electrometallurgy (e.g. Electroplating, froth flotation)</p>		
402	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Metal Manufacturing Process Laboratory	ENMT 6 1 6 031	2	6	Depok	<p>Description: This subject gives the opportunity for students to practice on what they have learnt in the main subjects</p> <p>Learning Objectives: Students are able to apply the metal forming theory through solidification process, plastic deformation, and realistic problem in metal forming process in laboratory scale, and able to analyze experiment results qualitatively and quantitatively</p> <p>Syllabus: (1) Sand particle size distribution, water content calculation, additive substance (bentonite) content in mould, sand flowability, relation of water and additive content in sand with permeability, shear and compressive strength of sand, (2) utilization of simulation software in calculation and design of casting, (3) Design of inlet and riser, mould making from patterns, making of the core of the mould, melting and pouring of molten metal to the mould, analysis of casting defect, analysis of casting product related to the alloying element and casting process, (4) Solid cylinder forging, (5) Sheet metal rolling, (6) Sheet metal forming which includes non-simulative testing (tensile testing for n and r value), and simulative testing (stretching and deep-drawing, LDH and LDR)</p>		
403	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Capita Selecta	ENMT 6 1 7 032	2	7	Depok	<p>Description: This subject gives illustration in real life by inviting expert external speaker</p> <p>Learning Objectives: Students are able to (i) understand industrial problem and development (ii) understand non-engineering aspect to give added value as graduate</p> <p>Syllabus: Specific topics that have not been included in Subjects and supplied by external resource persons which is experienced in industry</p>		
404	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Engineering Design of Products	ENMT 6 1 7 033	3	7	Depok	<p>Description: This subject gives the design principle for simple product according to metallurgy &amp; materials science</p> <p>Learning Objectives: Students are able to apply the principles of engineering design in simple design project</p> <p>Syllabus: Introduction to Engineering Design, total design activity, group dynamics and design management, problem identification and design specification, creativity and the conception of design, modeling, optimisation, materials and process selection, design communication and presentation</p>		
405	Engineering	Metallurgy & Materials Engineering	Undergraduate International Programme	Fracture Mechanics & Failure Analysis	ENMT 6 1 7 034	4	7	Depok	<p>Description: This subject gives the analysis metode when material failed</p> <p>Learning Objectives: Students are able to (i) explain the material failure principal, (ii) analyze and creating report, and perform presentation of particular material failure based on a valid standard</p> <p>Syllabus: Aspects of failure engineering and its analysis, sources/factors contributing the material's failure, explanation of failure factors, types of fractures, stress system and residual stress, theories of fracture mechanics and introduction to the risk-based inspection, failure due to: fatigue, creep, wear, brittleness, heat behavior, residual stress, corrosion and environment, case study.</p> <p>Description: This subject gives the analysis metode when material failed</p> <p>Learning Objectives: Students are able to (i) explain the material failure principal, (ii) analyze and creating report, and perform presentation of particular material failure based on a valid standard</p> <p>Syllabus: Aspects of failure engineering and its analysis, sources/factors contributing the material's failure, explanation of failure factors, types of fractures, stress system and residual stress, theories of fracture mechanics and introduction to the risk-based inspection, failure due to: fatigue, creep, wear, brittleness, heat behavior, residual stress, corrosion and environment, case study.</p>		
406	Engineering	Architecture	Undergraduate International Programme	Calculus 1	ENGE610001	3	1	Depok	<p>This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand basic concepts the functions of one variable, derivatives and integral functions of one variable, and its application.</p>		



407	Engineering	Architecture	Undergraduate International Programme	Mechanics and Thermal Physics	ENGE61004	3	1	Depok	<p>The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is used as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to utilize their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill.</p> <p>Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.</p>		
408	Engineering	Architecture	Undergraduate International Programme	Mechanics and Thermal Physics Laboratory	ENGE61005	1	1	Depok			
409	Engineering	Architecture	Undergraduate International Programme	Introduction to Architecture	ENAR61109	3	1	Depok	Mengetahui prinsip-prinsip dasar arsitektur, termasuk beberapa teori dasar, kaitan antara arsitektur dan manusia, kaitan arsitektur dan alam, arsitektur dan estetika, serta arsitektur dan teknologi. Mengetahui adanya keterkaitan antara disiplin arsitektur dengan bidang-bidang ilmu lainnya.		
410	Engineering	Architecture	Undergraduate International Programme	Basic Design 1	ENAR61101	5	1	Depok	Student should be able to produce 2D and 3D works as creative responses towards contexts by applying basic knowledge of visual art and design; Student should be able to acquire and apply basic 2D and 3D representational techniques.		
411	Engineering	Architecture	Undergraduate International Programme	Linear Algebra	ENGE61004	4	2	Depok	This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices		
412	Engineering	Architecture	Undergraduate International Programme	Basic Design 2	ENAR61202	7	2	Depok	Student should be able to produce spatial works as creative responses towards contexts by applying knowledge of visual art and design and employed various 2D and 3D representation techniques; Student should be able to communicate architectural ideas by using appropriate techniques and media		
413	Engineering	Architecture	Undergraduate International Programme	Digital Design Media	ENAR612015	3	2	Depok	<p>Learning Objective: Student should be able to express, explore, investigate and communicate architectural ideas by using digital media.</p> <p>Syllabus: Introduction to techniques and variety of digital media which can be applied to represent architectural ideas, investigate the basic abilities of various digital tools, choosing the appropriate digital tools and techniques to express, explore or investigate certain architectural ideas, studying the workflow of digital and analog media as a part of the architectural design process.</p>		
414	Engineering	Architecture	Undergraduate International Programme	Architectural Design 1	ENAR613003	7	3	Depok	<p>Design Project 1 focuses on the design of space for human self. Design Project 1 is an integration of knowledge on spatial design, based on the understanding of the relationship between human and space, basic structural logic, and basic principles of environmental comfort within spatial design. Design Project 1 consist of learning activities performed in two courses which complement each other, Architectural Design 1 and Building Technology 1.</p> <p>Learning Objectives: Student should be able to design a space for a single person, through understanding the relationship between human and space.</p> <p>Syllabus: Architectural Design 1 is an early and critical stage to introduce students to architecture through imaginative, creative, and innovative spatial design. Architectural knowledge encompasses basic comprehension about the personal spatial meaning and experience, interaction between human body and spatial quality, understanding of site and surrounding context as experienced by human body. Design activities consists of information gathering, formulation of design problem, analysis, and making critical decisions to formulate an active strategy toward human space, ability to think three-dimensional through spatial design exploration, and communicating design ideas.</p> <p>Design exercises consist of: Designing a simple space for a single person that is materialized through 1:1 scaled model; Designing a space for an episode of human life. Design Project 1 focuses on the design of space for human self. Design Project 1 is an integration of knowledge on spatial design, based on the understanding of the relationship between human and space, basic structural logic, and basic principles of environmental comfort within spatial design. Design Project 1 consist of learning activities performed in two courses which complement each other, Architectural Design 1 and Building Technology 1.</p> <p>Learning Objectives: Student should be able to design a space for a single person, through understanding the relationship between human and space.</p> <p>Syllabus: Architectural Design 1 is an early and critical stage to introduce students to architecture through imaginative, creative, and innovative spatial design. Architectural knowledge encompasses basic comprehension about the personal spatial meaning and experience, interaction between human body and spatial quality, understanding of site and surrounding context as experienced by human body. Design activities consists of information gathering, formulation of design problem, analysis, and making critical decisions to formulate an active strategy toward human space, ability to think three-dimensional through spatial design exploration, and communicating design ideas.</p> <p>Design exercises consist of: Designing a simple space for a single person that is materialized through 1:1 scaled model; Designing a space for an</p>		

415	Engineering	Architecture	Undergraduate International Programme	History and Theory of Architecture 1	ENAR613010	3	3	Depok	This course is a survey of history of architecture in Indonesia from the end of 19th century to 20th century. Various influences from overseas?India, China, Middle East and Western?take part in the development of architecture in Indonesia. Therefore it is important to understand Indonesian architecture and its relation with Non-Western and Western architecture, and architecture of various ethnic groups in Indonesia. Through discussion and analysis of buildings, drawings, photos and written materials, this course emphasizes on the interdependence among architecture, human, tropical climate, socio-culture background, politics and the development of technology in Indonesia.		
416	Engineering	Architecture	Undergraduate International Programme	Design Methods	ENAR613011	3	3	Depok	Learning Objective: Student should be able to understand the basic thinking and methods of designing built environment; student should be able to explain the basic thinking and apply one of the design methods through writings and drawings.		
417	Engineering	Architecture	Undergraduate International Programme	Building Technology 1	ENAR613012	3	3	Depok	Learning Objectives: Students should be able to understand basic technical aspects of structure, material, construction, and building comfort; should be able to formulate technical design process and integration of structure and construction technologies into a functionally effective whole; should be able to produce a report of analysis and synthesis of all aspects of building technology. Syllabus: Structure in nature; Basic principle of structure and construction (logic of structure, basic mechanics); Site context (natural elements that influence building); Building material (material use and position in building, material property values that influence comfort); Basic building physics (working orientation, environmental influence to comfort); Introduction to basic structure and construction principles of simple building; Introduction to working drawing.		
418	Engineering	Architecture	Undergraduate International Programme	Architectural Design 2	ENAR614004	8	4	Depok	Design Project 2 is about designing space for core social unit (family, a couple, etc). Design Project 2 integrates knowledge on spatial design based on the idea dwelling, the analysis of family life cycle and daily activities, application of basic structural principles and constructions of low rise building, building systems, and principle of building physics. Design Project 2 integrates the learning activities performed in two courses that complement each other, Architectural Design 2 and Building Technology 2. Learning Objectives: Students should be able to design a dwelling as a living space for core social unit through tectonic approach and by thorough consideration of the life cycle and daily activities of the core social unit. Syllabus: Architectural Design 2 proposes critical issues of human living space in urban community context, through the design of a dwelling. Design knowledge herewith includes the understanding concept of dwelling, observation and analysis of core social unit, formulating spatial program based on understanding of the needs of core social unit, development of spatial idea through tectonic exploration as the art of joining and exploration of spatial composition as an integration of part-whole that appropriately accommodate the programs, which are implemented into an integrated spatial design and communicated by complying with standard principles of architectural communication.		
419	Engineering	Architecture	Undergraduate International Programme	History and Theory of Architecture 2	ENAR614013	3	4	Depok	Learning Objective: Student should be able to demonstrate knowledge of history of architecture in Indonesia from the end of 19th century to 20th century Syllabus: This course is a survey of history of architecture in Indonesia from the end of 19th century to 20th century. Various influences from overseas?India, China, Middle East and Western?take part in the development of architecture in Indonesia. Therefore it is important to understand Indonesian architecture and its relation with Non-Western and Western architecture, and architecture of various ethnic groups in Indonesia. Through discussion and analysis of buildings, drawings, photos and written materials, this course emphasizes on the interdependence among architecture, human, tropical climate, socio-culture background, politics and the development of technology in Indonesia.		
420	Engineering	Architecture	Undergraduate International Programme	Building Technology 2	ENAR614014	3	4	Depok	Learning Objectives: Students should be able to understand technical aspects of structure, material, construction, and building comfort for low rise building; should be able to formulate technical design process and integration of structure, construction technologies and building systems into a functionally effective whole; should be able to produce a report of analysis and synthesis of all aspects of building technology. Syllabus: Identification of all aspects of building technology in a simple low rise building that include: structural logic, buildability, and comfort; Introduction to in-depth knowledge on the materiality of material, construction techniques and details; Dimension and configuration of materials and their relation to structure and construction of simple building; Elements of air conditioning and lighting in a building; Introduction to basic knowledge of building utility; Creating technical documentations (working drawing).		

421	Engineering	Architecture	Undergraduate International Programme	Architectural Design 3	ENAR615005	9	5	Depok	<p>Design Project 3 is studio that focuses on aspects of buildability and building performances. Design Project 3 is an integration of design knowledge through technological approach, implementation of structural principles, construction and material, building supporting system and the use of technology in the design process. Design Project 3 integrates the learning activities performed in two courses that support each other, Architectural Design 3 and Building Technology 3.</p> <p>Learning Objectives: Students should be able to design a building based on the development of technological ideas.</p> <p>Syllabus: Architectural Design 3 proposes the critical issues on the aspects of buildability and building performance. Design knowledge includes the development of advanced tectonic ideas, encompassing exploration of material, detail and construction, and the development of architectural ideas based on building performance and system. Knowledge of site and environment includes the contextual explanation of design through the understanding of the site physical condition and consideration of sustainability. Knowledge on the role of technology in architectural design process in terms of representation, modeling and simulation.</p>		
422	Engineering	Architecture	Undergraduate International Programme	Building Technology 3	ENAR615016	3	5	Depok	<p>Learning Objectives: Students should be able to understand technical aspect of structure, material, construction, and building comfort for advanced building (high rise/wide span building); should be able to formulate technical design process and integration of structure, construction technology and utility system as a functionally effective whole; should be able to formulate utility system, transportation and communication system, building maintenance and safety; should be able to perform technical documentation and to create analysis/synthesis report from all aspect of building technology; should be able to understand energy conservation issues and ecological sustainability.</p> <p>Syllabus: Advanced building structure (wide span and/or high rise); Building system, advanced utility system (comfort, transportation, communication, maintenance, and building safety); Sustainable building energy conservation; Basic knowledge of ecological sustainability issues.</p>		
423	Engineering	Architecture	Undergraduate International Programme	Architectural Design 4	ENAR616006	9	6	Depok	<p>Design Project 4 focuses on the design of public space. It integrates architectural typology-based design method, issue-based design and basic knowledge of urban context. Design Project 4 integrates the learning activities performed in two courses that support each other, Architectural Design 4 and Introduction to Urban Context.</p> <p>Learning Objectives: Students should be able to design public space through architectural typology-based design approach, issue-based design approach and creative exploration of architectural form and spatial quality.</p> <p>Syllabus: Architectural Design 4 proposes the critical issues of human living space with socio-cultural complexities as found in urban/suburban context, through two approaches: a) top-down approach through the exploration of design ideas based on typology, and b) bottom-up approach through exploration of issue-based design ideas. Design knowledge herewith consist of the understanding of the concept of public, analysis of functional types, spatial programming, the concept of institution and how it is elaborated into spatial design, the formulation of initial statement based on issues, development of architectural programs and how they are elaborated into spatial design. Knowledge of site and environment includes the contextual explanation of the design through the understanding toward site physical condition, urban socio-cultural context, and consideration of sustainability. Design assignments consist of: Designing space within social environment context with a close kinship; Designing space in more complex urban environmental context.</p>		
424	Engineering	Architecture	Undergraduate International Programme	Introduction to Urban Context	ENAR616017	3	6	Depok	<p>Learning Objectives: Student should be able to know and understand basic knowledge about physical urban forms, and able to implement and apply building rules and codes in design building in urban context.</p> <p>Syllabus: Basic principles and issues on urban physical forms: Cities, growth and development, urban physical form and urban physical development, planned and unplanned urban development, site planning and design.</p>		

425	Engineering	Architecture	Undergraduate International Programme	Architectural Design 5	ENAR617007	9		7	Depok	<p>Learning Objective: Students should be able to create architectural design based on particular design method, should be able to produce design ideas that demonstrate buildability and compliance to general building codes, should be able to demonstrate the application of advanced knowledge of structural principles, tectonic principles of construction detail and building utility system.</p> <p>Syllabus: Designing with particular approach or method within design units. Design units offered may include but not limited to: typology-based design, evidence-based design, architectural design as part of urban context, architectural design with technology, computation, or parametric approach. Knowledge and implementation of building codes that include safety, security, health, comfort, and accessibility. Design communication that comply with standard drawing convention. Awareness and understanding of role of various disciplines of design, construction, mechanical and electrical in architectural design process.</p>		
426	Engineering	Chemical Engineering	Undergraduate International Programme	Physics Mechanics and Heat	ENGE610003	4		1	Depok	<p>The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is used as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to utilize their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill.</p> <p>Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.</p>		
427	Engineering	Chemical Engineering	Undergraduate International Programme	Calculus	ENGE 6 0 0003	4		1	Depok	<p>This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand the basic concept the function of two variables, the total derivative of the function of two or more variables and its application. Students are also expected to understand the basic concept of sequence and series and the basic concept of vector and analytical geometry.</p>		
428	Engineering	Chemical Engineering	Undergraduate International Programme	Basic Chemistry	ENGE 6 0 0009	2		1	Depok	<p>As an engineer, you must have understanding on the chemistry that provides not only the basis for much of what goes on in our world but also that it is a vital, continually developing science. In this study the students will learn many subjects such as matter and measurement; atoms, molecules, and ions; stoichiometry, aqueous reactions; thermochemistry; properties of solutions; chemical kinetics; chemical equilibrium; and electrochemistry.</p> <p>Learning activities will be conducted through various method, which consists of: problem based learning (PBL), interactive lecture, question-based learning, discussion, demonstration and unguided structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam.</p>		
429	Engineering	Chemical Engineering	Undergraduate International Programme	Statistic and Probability	ENGE 6 0 0010	2		1	Depok	<p>Statistics and probability has been known as applied mathematics which is widely used in collecting, organizing, presenting, interpreting and analyzing data to support valid conclusions. Furthermore, these conclusions will be used as recommendation in decision making. The course of Statistics and Probability is intended to give a basic ability for students to handle quantitative data and information. There are two stages that are delivered which is descriptive and inductive/inference stages. Descriptive stage includes collecting, organizing, and presenting the data in a scientific manner. Then, inductive/inference stage includes the process of estimating and drawing conclusion based on available data and relations between variables. Hence, students are expected to apply their knowledge of statistics in conducting experiments in laboratory works/assignments as well as research studies in their final projects.</p>		
430	Engineering	Chemical Engineering	Undergraduate International Programme	Introduction to Chemical Engineering	ENGE611001	3		1	Depok	<p>Students are able to distinguish chemical engineering from the other techniques, able to explain the development of chemical engineering, understand the fundamentals of chemical engineering of existing processes and systems as well, able to make simple calculation from mass and energy balance, and know the criteria for process equipment</p>		

431	Engineering	Chemical Engineering	Undergraduate International Programme	Physics Electricity, Magnets, Wave, and Optics	ENGE 6 0 0007	4		2	Depok	The Basic Physics 2 subject includes the topics of electricity, magnet, wave, and optics. Calculus is use as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their soft skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyze the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept.		
432	Engineering	Chemical Engineering	Undergraduate International Programme	Organic Chemistry	ENCE612002	3		2	Depok	Students are able to explain the relevancy structure, stereochemistry and reaction mechanisms; able to determine the mechanisms of some organic chemical reactions and be able to estimate how to synthesize a simple organic chemical compounds		
433	Engineering	Chemical Engineering	Undergraduate International Programme	Mass and Energy Balances	ENCE612003	3		2	Depok	Students are able to solve the problem of mass balance and energy balance with a combination of both		
434	Engineering	Chemical Engineering	Undergraduate International Programme	Basic Chem. and Org. Chem. Lab.	ENCE612004	1		2	Depok	Students are able to prepare a preliminary report on the theory behind the lab module, conducting experiments in the laboratory, process and analyze data from experiments, able to explain phenomena that occur, and create a final report.		
435	Engineering	Chemical Engineering	Undergraduate International Programme	Linear Algebra	ENGE 6 0 0004	4		2	Depok	This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices		
436	Engineering	Chemical Engineering	Undergraduate International Programme	Physical Chemistry	ENCE612005	3		2	Depok	Students are able to understand the basic concepts of physical chemistry including the topics of thermodynamics, equilibrium reactions, and molecular spektroskopi, and apply these concepts to solve simple problems of chemical physics		
437	Engineering	Chemical Engineering	Undergraduate International Programme	Material Science and Corrosion	ENCH610030	3		3	Depok	1. Students able to understand the role of materials selection in designing equipment 2. Students able to understand the characteristics of materials 3. Students able to understand corrosion : Process, prevention, testing and protection, as well as calculating and designing simple corrosion protection		
438	Engineering	Chemical Engineering	Undergraduate International Programme	Numerical Computation	ENEE610031	3		3	Depok	Students are able to solve chemical process through computational methods		
439	Engineering	Chemical Engineering	Undergraduate International Programme	Instrumental Analytical Chemistry	ENCH610005	3		3	Depok	Students can describe and compare a variety principles of analytical chemistry instrumental and apply it to the qualitative and quantitative analysis of pure compounds and mixtures		
440	Engineering	Chemical Engineering	Undergraduate International Programme	Fluid and Particle Mechanics	ENCH610011	3		3	Depok	Students are able to explain the phenomenon of fluid flow and particle, and can apply them to solve problems within the process unit of momentum transfer.		
441	Engineering	Chemical Engineering	Undergraduate International Programme	Phys. Chem. and Anal. Chem. Lab.	ENCH610007	1		3	Depok			
442	Engineering	Chemical Engineering	Undergraduate International Programme	Chemical Engineering Thermodynamics	ENCE613011	4		3	Depok	Students are able to explain the basic principles relating to the PVT and thermodynamic properties of pure compounds and mixtures, mass and energy balance, thermodynamic cycles, phase equilibrium and reaction, and be able to apply problem-solving strategies to resolve the thermodynamic triggers in a group manner		
443	Engineering	Chemical Engineering	Undergraduate International Programme	Transport Phenomena	ENCH610009	3		3	Depok	Students are able to explain the concept of momentum transfer, mass and energy and apply it in solving the problem of microscopic and macroscopic systems process.		
444	Engineering	Chemical Engineering	Undergraduate International Programme	Chemical Engineering Modeling	ENCE614013	3		4	Depok	Students are able to create a mathematical model of a system process and solve it using numerical methods with the assistance of a programming language		
445	Engineering	Chemical Engineering	Undergraduate International Programme	Mass Transfer	ENCE614014	4		4	Depok	Students are able to analyze the phenomenon of mass transfer and apply it to solve the problem of unit mass transfer process.		
446	Engineering	Chemical Engineering	Undergraduate International Programme	Heat Transfer	ENCE614015	3		4	Depok	Students are able to analyze the heat transfer phenomena and apply them to solve problems in heat transfer process unit.		

447	Engineering	Chemical Engineering	Undergraduate International Programme	Process Engineering Drawing	ENCE614016	2		4	Depok	Students are able to draw it manually process flow diagrams, P & IDs and plant layout, familiar with the use of software for drawing, understand and be able to read the meaning of the picture		
448	Engineering	Chemical Engineering	Undergraduate International Programme	Chemical Process Simulation	ENCE614017	3		4	Depok	Students are able to use the latest chemical engineering software to make the steady state and dynamic simulations, and able to manipulate the process variable and the topology of the unit processes in the chemical industry.		
449	Engineering	Chemical Engineering	Undergraduate International Programme	Molecular Biology	ENCE614018	3		4	Depok	Able to explain structure and chemical compounds in living things including the function, the synthesis and metabolism of chemical compounds that occur in cells. Chemical compounds include nucleic acids, proteins, carbohydrates, and lipids.		
450	Engineering	Chemical Engineering	Undergraduate International Programme	Health, Safety, and Environment	ENGE 6 0 0 12	2		4	Depok	<p>The teaching of Safety, Health and Environmental (SHE) protection to undergraduates studying engineering courses is an important part of the education of future engineers at all levels. It is the generally expressed view amongst practitioners in industry, business and other organisations that all engineers need to be equipped to appreciate, understand and implement the requirements of SHE management and practice to meet the working needs of industry and of their company (or other organisation). Whilst the level of risk and degree of control is dependant on the industry sector concerned the basic principles do not change. In addition, according to code of ethics of engineers, engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties.</p> <p>The module covers the regulation framework and standards, risk perception, assessment, and management and detail discussion on physical, chemical and process hazards, and related engineering and management controls. Maintenance of safety conditions, personal protective equipments, audit, incident and emergency planning are discussed in accordance to measures for improving students awareness to their daily activities within the campus premises and local environment.</p> <p>Learning activities will be conducted through various methods, which consist of: interactive lecture, question-based learning, discussion, demonstration and unguarded structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam</p>		
451	Engineering	Chemical Engineering	Undergraduate International Programme	Chemical Reaction Engineering 1	ENCE615019	3		5	Depok	Students are able to explain the concept of chemical kinetics and catalysis		
452	Engineering	Chemical Engineering	Undergraduate International Programme	Process Control	ENCE615020	3		5	Depok	Able to design a single loop control system and connected the dynamics of the process with the performance		
453	Engineering	Chemical Engineering	Undergraduate International Programme	Unit Operation Laboratory 1	ENCE615021	1		5	Depok	Students skilled at operating the equipment operating units of fluid mechanics and heat transfer as well as being able to analyze experimental data obtained through written reports.		
454	Engineering	Chemical Engineering	Undergraduate International Programme	Industrial Project Management	ENCE615022	2		5	Depok	Students are able to apply project management in their field of works exactly as well as apply it in other areas exclude main field		
455	Engineering	Chemical Engineering	Undergraduate International Programme	Unit Operation Laboratory 2	ENCE616023	1		6	Depok	Students skilled at operating the equipment operating units of mass transfer and process control, able to analyze the experimental data obtained and communicate the results through written reports.		
456	Engineering	Chemical Engineering	Undergraduate International Programme	Chemical Reaction Engineering 2	ENCE616024	3		6	Depok	Students are able to design and analyze various types of chemical reactors		
457	Engineering	Chemical Engineering	Undergraduate International Programme	Process Equipment Design	ENCE616025	3		6	Depok	Students are able to design a chemical process equipment in accordance with the applicable standards.		
458	Engineering	Chemical Engineering	Undergraduate International Programme	Chemical Product Design	ENCE616026	4		6	Depok	Students are able to design chemical products and analyze the technical and economic feasibility.		
459	Engineering	Chemical Engineering	Undergraduate International Programme	Plant Design	ENCE617027	4		7	Depok	Students are able to design processes and chemical plant and able to analyze the technical and economic feasibility.		
460	Engineering	Chemical Engineering	Undergraduate International Programme	On the Job Training	ENCE610028	2		7	Depok	Students get field experience, capable of analyzing the processes / systems / operations and products in the chemical process industry, and able to apply the process skills: problem solving, interpersonal communication, working in groups, conduct assessment		
461	Engineering	Chemical Engineering	Undergraduate International Programme	Research Methodology and Seminar	ENCE610029	2		7	Depok	Students are able to determine the appropriate methods for research activities as well as their ideas, processes and scientific research results orally and in writing.		
462	Engineering	Chemical Engineering	Undergraduate International Programme	Capita Selecta	ENCE610030	2		7	Depok	Explain the development of industry and engineering, business opportunities and the problems it faces in general.		

463	Engineering	Chemical Engineering	Undergraduate International Programme	Natural Gas Processing	ENGE618031	3		8	Depok	Students are able to design the most appropriate process for the removal of natural gas impurities with the process simulator; able to evaluate the energy consumption of refrigeration system and natural gas liquefaction system		
464	Engineering	Industrial Engineering	Undergraduate International Programme	Calculus 1	ENGE610001	3		1	Depok	This subject gives the opportunity for students to understand the basic concept of calculus and to be able to solve applied calculus problems. Students are also given the opportunity to understand basic concepts the functions of one variable, derivatives and integral functions of one variable, and its application.		
465	Engineering	Industrial Engineering	Undergraduate International Programme	Intro to Industrial Engineering	ENIE611001	2		1	Depok	Early understanding about the Industrial Engineering Discipline scope and contributions, which includes concepts, methods and tools and how it relates to each other in service or manufacturing industry.		
466	Engineering	Industrial Engineering	Undergraduate International Programme	Material Sciences	ENIE611003	2		1	Depok	Students are expected to understand the processing, characteristics and application of engineering materials, structure and bonding in materials, material processing for all types of engineering materials as well as basic concept in materials testing		
467	Engineering	Industrial Engineering	Undergraduate International Programme	Introduction to Economics	ENIE611002	2		1	Depok	Introduce the scope of economics science and business as an integral part of human activities to survive.		
468	Engineering	Industrial Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal) Lab	ENGE610006	1		2	Depok			
469	Engineering	Industrial Engineering	Undergraduate International Programme	Physics (Mechanics and Thermal)	ENGE610005	3		2	Depok	The Basic Physics 1 subject includes the topics of mechanics and thermodynamics. Calculus is use as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyse the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept. This subject will give students the opportunity to develop their ability to develop their presentation ability analyse the nature phenomenon and the result of human engineering from the mathematics and natural science point of view integrative and comprehensively.		
470	Engineering	Industrial Engineering	Undergraduate International Programme	Linear Algebra	ENGE610004	4		2	Depok	This subject gives the opportunity for students to master the basic techniques of Linear Algebra and gain knowledge on how to implement said techniques in solving System of linear equations, determining the bases and dimension of vector space, as well as calculating eigen values and eigen vectors. This subject also gives students the opportunity to work with other objects, especially vectors and matrices		
471	Engineering	Industrial Engineering	Undergraduate International Programme	Engineering Drawing	ENIE612001	2		2	Depok	Course participants are able to transfer geometric component by drawing according to standard draw which is recognized by International Standard Organization (ISO). Students understand the theory and procedure of engineering drawing based on ISO standard. Students are able to read, interpret, and transfer 2D/3D geometric draw from component or construction. Students are able to draw the orthogonal projection based on ISO standard.		
472	Engineering	Industrial Engineering	Undergraduate International Programme	Engineering Economics	ENGE610011	3		3	Depok	This course introduces students to the basic of engineering economy. It covers the time value of money (TVOM) and interest rate; tools for evaluating project alternatives for both non discounted and discounted methods, for instance present worth analysis, annual worth analysis, future worth analysis, rate of return (ROR) analysis and benefit/cost analysis; and choosing the best alternative, break even analysis, and effect of depreciation and after tax analysis and sensitivity analysis, and replacement analysis. Learning activities will be conducted through various methods, which consist of: interactive lectures, question-based learning, discussion, and structure assignments. Assessment will be made thoroughly through sets of exercises/quizzes, group discussion, midterm and final exam. To expose students on the latest utilization of engineering economy and train them how to use it, a project will be assigned. As an integral part of course, computer utilization such as Microsoft Excel will be demonstrated and discussed on the class.		
473	Engineering	Industrial Engineering	Undergraduate International Programme	Physics (Electricity, MWO) Lab	ENGE610008	1		3	Depok			

474	Engineering	Industrial Engineering	Undergraduate International Programme	Physics (Electricity, MWO)	ENGE61007	3		3	Depok	The Basic Physics 2 subject includes the topics of electricity, magnet, wave, and optics. Calculus is used as a mathematic helping tool in the learning process. Students are given the opportunity to learn how to unite their understanding of the basic concept of the analytical capability, their numeracy in learning mechanics and thermodynamics. During the course of this subject, students are not only aim to increase the students' knowledge of the basic physics concepts but also to increase their capability in using information technology and computer and to train their soft skills, such as: independent and group work and their communication skill. Students will also be train on how to explain and analyze the nature phenomenon and the result of human engineering exist in their everyday lives by using the basic physics concept and applied them in their daily lives. Students are also taught to develop their synthesis ability and evaluating both quantitative and qualitative natural phenomenon and the result of human engineering in their surrounding environment by using basic physics concept.		
475	Engineering	Industrial Engineering	Undergraduate International Programme	Liner Programming	ENIE61307	3		3	Depok	Course participants are able to implement mathematical model in developing solutions for engineering and management problems.		
476	Engineering	Industrial Engineering	Undergraduate International Programme	Basic Statistics	ENIE61306	3		3	Depok	Statistics and probability has been known as applied mathematics which is widely used in collecting, organizing, presenting, interpreting and analyzing data to support valid conclusions. Furthermore, these conclusions will be used as recommendation in decision making. The course of Statistics and Probability is intended to give a basic ability for students to handle quantitative data and information. There are two stages that are delivered which is descriptive and inductive/inference stages. Descriptive stage includes collecting, organizing, and presenting the data in a scientific manner. Then, inductive/inference stage includes the process of estimating and drawing conclusion based on available data and relations between variables. Hence, students are expected to apply their knowledge of statistics in conducting experiments in laboratory works/assignments as well as research studies in their final projects.		
477	Engineering	Industrial Engineering	Undergraduate International Programme	Production Process + Lab	ENIE61305	3		3	Depok	Course participants have the knowledge about technology and process to understanding how a product is made through manufacturing processes.		
478	Engineering	Industrial Engineering	Undergraduate International Programme	Cost Accounting	ENIE61304	2		3	Depok	Course participants understand accounting principles and are able to calculate accounting problems systematically and present them as a financial report. They should also be able to analyze and evaluate the conditions of the company based on those reports.		
479	Engineering	Industrial Engineering	Undergraduate International Programme	Work Design, Methods & Standards	ENIE61303	3		3	Depok	Course participants are able to measure, analyze, design and increase the effectiveness and efficiency of human work through methods improvements and work standards.		
480	Engineering	Industrial Engineering	Undergraduate International Programme	Organization & Industrial Psychology	ENIE614013	3		4	Depok	Course participants are able to analyze the influencing factors of design and organizations management in industry including human capital assets.		
481	Engineering	Industrial Engineering	Undergraduate International Programme	ProductPlan & Inventory Control +Lab	ENIE614012	3		4	Depok	Course participants are able to analyze, design, implement and evaluate an integrated production planning and control system by controlling information flow, scheduling of production resources and internal processes, resulting a high quality product at the right time and the right cost.		
482	Engineering	Industrial Engineering	Undergraduate International Programme	Computation Lab	ENIE614015	1		4	Depok	Course participants are able to use computational language tools, such as flow charts, pseudo codes, and IDEF to make an algorithm. Participants should also be able to solve a problem in the field of Industrial Engineering using computational programs.		
483	Engineering	Industrial Engineering	Undergraduate International Programme	Operation Research	ENIE614014	3		4	Depok	Course participants are able to use mathematical optimization model to solve engineering and management problems that could be converted to deterministic and stochastic quantitative model.		
484	Engineering	Industrial Engineering	Undergraduate International Programme	Industrial Statistics + Lab	ENIE614011	3		4	Depok	Course participants are able to organize the collection, process, and analysis of data using statistics and engineering principles to support decision making process, within DOE - Design of Experiment.		
485	Engineering	Industrial Engineering	Undergraduate International Programme	Maintenance Systems	ENIE614010	2		4	Depok	Course participants understand the important aspects in the maintenance system management and the type of approach that is currently used in the industry.		
486	Engineering	Industrial Engineering	Undergraduate International Programme	Human Factor in Eng. & Design + Lab	ENIE614009	3		4	Depok	Course participants are able to analyze and design a human machine interaction and its workplace.		



487	Engineering	Industrial Engineering	Undergraduate International Programme	Intro to Mech. & Electronics Factory	ENIE614008	2		4	Depok	Course participants understand basic concepts from engineering mechanics and also can identify various factory facility based on prime movers and electric power.		
488	Engineering	Industrial Engineering	Undergraduate International Programme	Industrial Feasibility Analysis	ENIE615018	3		5	Depok	Course participants know the aspects used to analyze industry feasibility and able to identify and analyze investment of facility feasibility		
489	Engineering	Industrial Engineering	Undergraduate International Programme	Production Systems + Lab	ENIE615021	3		5	Depok	Course participants are able to analyze, design, implement and improve the performance of an operation system, especially with significant impact to the long term strategic goals of the organization to produce the right product for the customer.		
490	Engineering	Industrial Engineering	Undergraduate International Programme	Plant Layout Design	ENIE615016	3		5	Depok	Course participants are able to design the layout of a plant based on constraint and optimum goals.		
491	Engineering	Industrial Engineering	Undergraduate International Programme	Industrial Project Management	ENIE615022	3		5	Depok	Course participants are able to plan, conduct, and control projects in industry		
492	Engineering	Industrial Engineering	Undergraduate International Programme	System Modeling + Lab	ENIE615020	3		5	Depok	Course participants are able to design a computerized model based on discrete-event modeling from micro industrial system, simulating that model to do feasibility analysis and generating recommendation from the model (becoming discrete-event model)		
493	Engineering	Industrial Engineering	Undergraduate International Programme	Quality Systems	ENIE615019	3		5	Depok	Course participants are able to design a quality improvement system that able to do assurance and improvement of continuous product and process quality based on the fact (number) using mathematical (statistical) method with world's quality standard consideration		
494	Engineering	Industrial Engineering	Undergraduate International Programme	Product Design + Lab	ENIE615017	3		5	Depok	Course participants are able to create new product or service concept ideas according to structural market study based on marketing mix		
495	Engineering	Industrial Engineering	Undergraduate International Programme	HSE Protection	ENGE610012	2		6	Depok	The teaching of Safety, Health and Environmental (SHE) protection to undergraduates studying engineering courses is an important part of the education of future engineers at all levels. It is the generally expressed view amongst practitioners in industry, business and other organisations that all engineers need to be equipped to appreciate, understand and implement the requirements of SHE management and practice to meet the working needs of industry and of their company (or other organisation). Whilst the level of risk and degree of control is dependant on the industry sector concerned the basic principles do not change. In addition, according to code of ethics of engineers, engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties. The module covers the regulation framework and standards, risk perception, assessment, and management and detail discussion on physical, chemical and process hazards, and related engineering and management controls. Maintenance of safety conditions, personal protective equipments, audit, incident and emergency planning are discussed in accordance to measures for improving students awareness to their daily activities within the campus premises and local environment. Learning activities will be conducted through various methods, which consist of: interactive lecture, question-based learning, discussion, demonstration and unguided structured assignments. Assessment will be made continuously through a set of exercises, group discussion, mid semester exam and final exam		
496	Engineering	Industrial Engineering	Undergraduate International Programme	Industrial Engineering Design + Lab	ENIE616026	3		6	Depok	Course participants are able to conduct product development process by considering the interaction between material, human resources and production process and able to analyze technical and financial aspects of the NPD project for commercialization.		
497	Engineering	Industrial Engineering	Undergraduate International Programme	Information System	ENIE616027	3		6	Depok	Course participants understand the role of information system management and technology in the industry to face the globalization era.		
498	Engineering	Industrial Engineering	Undergraduate International Programme	Industrial Simulation + Lab	ENIE616025	3		6	Depok	Course participants are able to design a complex computerized model from industrial systems and simulate and conduct a simple feasibility study and design a recommendation from model simulation result (becoming a continuous system modeler)		

499	Engineering	Industrial Engineering	Undergraduate International Programme	Supply Chain Management	ENIE16024	3		6	Depok	Course participants are able to understand about concept and application of SCM to analyze and evaluate the role of operators in a whole supply chain		
500	Engineering	Industrial Engineering	Undergraduate International Programme	Topics in Industrial Engineering	ENIE17028	2		7	Depok	Course participants will have a broad description about the current progress in the service and manufacturing industry, and how industrial engineering could contribute to the enhancement of efficiency and effectiveness.		
501	Engineering	Industrial Engineering	Undergraduate International Programme	Technology Management	ENIE18031	2		8	Depok	Course participants are able to identify technology development that have an impact to industry, identify that technology, and translate into technology plan for improving organization competitiveness		
502	Engineering	Industrial Engineering	Master	SYSTEM THINKING	ENIE81001	3 SKS		Odd Semester	Depok	Course participants are able to implement soft OR concept which is SSM (Soft System Methodology) as a thinking pattern to understand a systemic problem. Syllabus: System Thinking Concept, Concept of Learning, Organization Hard OR vs Soft OR, Causal Loop Diagram, System Archetypes, Behavior Overtime Graph (BoT), SSM (Soft System Methodology), Entering the problem situation, Expressing the problem situation, Formulating root definitions of relevant systems, Building Conceptual Models of Human Activity Systems, Comparing the models with the real world, Defining changes that are desirable and feasible and Taking action to improve the real world situation.		
503	Engineering	Industrial Engineering		INDUSTRIAL SYSTEMS ENGINEERING	ENIE81004	3 SKS		Odd Semester	Depok	Course participants are able to analyze implementation of NPD Process in an organization and know the approaches, tools and techniques used in each steps of the process according to the needs and characteristics of the organization in order to achieve competitive advantage. Syllabus: Introduction to NPD Process, Models of NPD Process, Detail Design of Stage-Gate Model dan Concurrent Engineering, Value Engineering, Spiral NPD Model, Case Studies Implementation NPD, Company Level System, Supply Chain Management, Strategy Development, Industry Level System		
504	Engineering	Industrial Engineering		KNOWLEDGE MANAGEMENT	ENIE80312	2 SKS		Odd Semester	Depok	Course participants are able to comprehend the concept of knowledge starting from creation, use, transfer, retention and disposal of knowledge to broaden the understanding about the importance of KM for achieving organizations objective. Syllabus: Introduction to KM, Definition and Concept of KM, SECI Model, Information Management Body of Knowledge (IMBOK), Capitalization of Knowledge, Learning Organization, Implementation of KM in Organization, KM and Innovation, Knowledge Transfer and Open Innovation, Best Practices of KM Implementation.		
505	Engineering	Industrial Engineering		INDUSTRIAL TECHNOLOGY MANAGEMENT	ENIE80310	3 SKS		Odd Semester	Depok	Course participants are able to understand the steps of technology management in an organization. Syllabus: State of the art Technology Management, Strategy in Technology Management, Technology Intelligence, Technology assessment, TRBA, Technology Readiness Level (TRL), Technology Roadmapping, Usage of Technology in Innovation, Technology Acceptance Model, UTAUT		
506	Engineering	Industrial Engineering		MACRO ERGONOMICS	ENIE80311	3 SKS		Odd Semester	Depok	Course participants are able to understand comprehensively about work system design that consists of interacting variables such as hardware and software within internal and external physical environment, organization structure and process in order to make it better. Ability to understand how to implement ergonomic science. Syllabus: Introduction to macroergonomics, method and tools that are used in work system design and analysis, introduction to organization integration in productivity, safety, health and quality of work life context		
507	Engineering	Industrial Engineering		COGNITIVE ERGONOMICS	ENIE80313	2 SKS		Odd Semester	Depok	Course participants are able to understand about basic principles of ergonomics and human factors in cognitive perspective. Students are expected to implement knowledge of cognitive ergonomics in workplace, and also be expected to measure, evaluate, and analyze performance and behavior of various fields and the relation to technology development and engineering. Students are also expected to design Hierarchical Task Analysis (HTA) as a part of task design based on cognitive. Syllabus: General introduction to ergonomics and human factors, cognitive aspect in man/machine/machine-environment interaction, cognitive aspect in industry, cognitive aspect in transportation, information technology and cognitive performance, behavior aspect and human cognitive performance in designing Hierarchical Task Analysis (HTA).		
508	Engineering	Industrial Engineering		TECHNOPRENEURSHIP	ENIE80314	2 SKS		Odd Semester	Depok			
509	Engineering	Industrial Engineering		HUMAN PERFORMANCE ENGINEERING	ENIE80315	2 SKS		Odd Semester	Depok	Course participants are able to understand basic concept and implement the knowledge of human performance engineering. Participants should be able to calculate, evaluate and analyse performance and behaviour in real cases which also includes the advancement in technology and engineering. Syllabus: Introduction to human performance engineering, tools and methods used in human performance engineering, human performance in usability engineering and product design.		

510	Engineering	Industrial Engineering		SYSTEM ENGINEERING MANAGEMENT	ENIE803539	3 SKS		Odd Semester	Depok	Course participants understand the basics of system engineering management in the industry so they would be able to manage a process of design, installation, management and termination of a system Syllabus: The concept and methodology of systems engineering, Life Cycle Systems, Concepts, Development, Production, Use and Support, and End Systems, Processes in Life Cycle System, Technical Process, Projects Process, Organization Processes and Acquisition Process of Goods or Services, SEMP- Systems Engineering Management Plan, Systems Engineering Organization, Systems Engineering Evaluation Program, CMMI-Capability Maturity Model Integration, Outsourcing		
511	Engineering	Industrial Engineering		PERFORMANCE MODELING AND ANALYSIS	ENIE803540	3 SKS		Odd Semester	Depok	Course participants are able to specify, predict and evaluate the performance of the system designed by different system modeling Syllabus: Micro-level performance modelling (Financial Modelling), Business Process Modelling, Macro-level performance modelling with dynamic systems approach.		
512	Engineering	Industrial Engineering		TECHNOLOGY POLICY WITH SYSTEM DYNAMICS	ENIE803544	2 SKS		Odd Semester	Depok	Course participants understand the concepts, methods and tools for systems dynamics modelling to specify, predict and evaluate the impact of a policy so a better policy decision could be formulated. Syllabus: Introduction to Policy and Technology Policy, Technology aspects of policy, Introduction to system dynamics, basic models of policy analysis using system dynamics, policy modelling case studies.		
513	Engineering	Industrial Engineering		CONCEPTUAL SYSTEMS DESIGN	ENIE803541	2 SKS		Odd Semester	Depok	Course participants understand the concepts, methods and tools to develop a complete system based on the needs of multiple stakeholders, which could be transformed into a system with complete specifications. Syllabus: Volere User Requirements Methodology, Design for Manufacturing, Design for Six Sigma, Design for Reliability, Maintainability, and Supportability, Use Case Modelling, Systems Architecting, Systems Specification, Design Structure Matrix (DSM)		
514	Engineering	Industrial Engineering		GAME THEORY	ENIE803543	2 SKS		Odd Semester	Depok	Course participants are able to know how to make decisions in a condition that involves multi-actor. Course participants are able to calculate the effects of strategic decisions or policy taken in an environment and take into account the response of that decision. Syllabus: Types of strategic games, Nash equilibrium, Continuous and Discontinuous Games, Evaluation and Learning in the game, Games with a non-perfect information, Nash bargaining action, repeated games, mechanism design, social choice and voting theory		
515	Social and Political Sciences	Communication	Undergraduate	Introduction to Political Science	ISP20005	3		1	Depok	This course is designed to be an introduction to the basic concepts of political science where students will progress through the topics of approaches to political science, political executive, legislature and judiciary. In addition, this course intends to establish the political socialization and culture, political communication and public opinion, political party, political participation and general election, political ideology, democracy and human rights- that will equip students with the concepts necessary to develop understanding in political science.		
516	Social and Political Sciences	Communication	Undergraduate	Social Statistics	ISP20015	3		1	Depok	This course discusses basics of statistics that are usually used in social research projects especially in communication studies. This course discusses most of common techniques in statistics including data delivery, sampling technique, probability, hypothesis test and simple data analysis. Students also get parametric and non parametric technique for univariate and bivariate analysis. To enhance student's understanding, this course also discusses case study and the use of social package for the social sciences (SPSS).		
517	Social and Political Sciences	Communication	Undergraduate	Introduction to Sociology	ISP20017	3		1	Depok	This course is designed as an introduction to the field of sociology. In a broad sense, sociology is a study of society, as a way of understanding the world. Sociology is a field of study that explains social, political, cultural, and economic phenomena in the context of social forces, and social relations. It understands and explains human behaviors as a result of social and cultural contexts. In a more specific view, sociology examine social interactions among individuals, groups, social institutions. Sociologists use variety of perspectives, theory and methods to study social worlds. In this course, we will study and use them in analyzing social phenomena.		
518	Social and Political Sciences	Communication	Undergraduate	Social Research Methods	ISP20030	3		2	Depok	Social Research Method (SRM) is a course designed to teach and train students on a variety of approaches available and relevant in the area of Social Science, with a focus on communication studies. The course centres on social research at an introductory level, so that students understand the logic behind linking theory and practice and both of their relevance in designing a research project. It is not an advanced methods course that will thoroughly explain quantitative or qualitative methods, but rather a general course offering an overview of social research tools with an opportunity to have vibrant discussions with quality BA (S.Sos) scholars in the field of Public Relations and Advertising. SRM is relevant in, among others, market research, evaluation and policy-making.		

519	Social and Political Sciences	Communication	Undergraduate	Introduction to Communication	SIK3001	3		1	Depok	<p>In general, the course introduces the basic concepts of communication that students need to comprehend as a requisite fundamental knowledge before further study in communication field. In particular, the course provides knowledge on the core concepts and theories of communication, its range of discipline and subject development as well as the forthcoming profession/career likelihood that is in line with communication domain.</p> <p>The course discussion commences with the understanding of communication and the advantages students obtain by learning communication which is multidisciplinary and covers broader fields of study, both academically and practically. The history of the development of communication as a discipline is examined with the focus of all aspects of human communication, including message reception and production process. Moreover, the course discusses a variety of communication models, levels (namely interpersonal communication, group communication, organization communication, and mass communication) as well as their functions. In the final parts, the course elaborates on the linkage of culture and communication, media communication and media literacy, as well as communication technology.</p>		
520	Social and Political Sciences	Communication	Undergraduate	Communication Theory	SIK30015	3		2	Depok	<p>This course is designed to be an introduction to the students about some communication theories that related to their real life. Student will learn about the broad of communication theories (including description, goals, level of generality, perspective and also the approach about them). In addition, students will learn about some communication context as follows: intrapersonal, interpersonal, group/organization, and media.</p>		
521	Social and Political Sciences	Communication	Undergraduate	Communication Research Method I (Quantitative)	SIK30016	3		1	Depok	<p>Communication Research Method (Quantitative) is a course designed to teach and train students on the predominant variety of quantitative methodological approaches available and relevant in the area of Communication Science, with a focus on Public Relations and Advertising. The course is designed to assist student with practicing quantitative research in Communication Science. In the first block, students will be trained in conceptualizing and operationalising theory, furthermore developing a practical questionnaire and distributing them to selected respondents. In the second block of the course, students will process obtained data, in coordination with the course on Social Statistics, and read the data in a simple univariate and bivariate analysis.</p> <p><b>Prerequisite subjects: Social Research Methods.</b></p>		
522	Social and Political Sciences	Communication	Undergraduate	Integrated Marketing Communication	SIK30022	3		2	Depok	<p>This course is designed to be an introduction of IMC, how to link between theory and practical in the field and also knowing how its work in the small medium and big company (including local and multinational company).</p> <p><b>Prerequisite subjects: Marketing</b></p>		
523	Social and Political Sciences	Communication	Undergraduate	Social Marketing	SIK30049	3		1	Depok	<p>Generally a social marketing campaign is used to influence individuals or group of people to change their behavior in order to improve a social good such as individual health, the environment and community.</p>		
524	Social and Political Sciences	Communication	Undergraduate	Introduction to Advertising	SIK30057	3		2	Depok	<p>Some broad advertising element topics will be covered in this course such as foundation and scope of advertising, advertising and society, advertising concepts, and planning and strategy of integrated advertising campaign.</p>		
525	Social and Political Sciences	Communication	Undergraduate	Marketing	SIK30067	3		1	Depok	<p>This course is designed to be an introduction to the broad concept of marketing where students will progress through the topics of generic functions of marketing, the environment of marketing, consumer behaviour, and marketing strategy. In addition, this course intends to establish the nature and complexity of strategic marketing that will equip students with the concepts necessary to develop marketing and communication strategies, in consumer and business to business markets, that are appropriate to the organisation and its environment.</p>		
526	Social and Political Sciences	Communication	Undergraduate	Advertising Management	SIK40037	3		1	Depok	<p>The course will provide the student with an understanding of the Advertising Management and its development process. The goal is to expose the student to various knowledge, methodologies and techniques for the communication design with proper content and context. The course will also raise the awareness of possible pitfall and success story of advertising and discuss emerging opportunities and new trends in Advertising and business model. The course will also explore scenarios in Business and Advertising.</p> <p><b>Prerequisite subjects: Introduction to Advertising</b></p>		
527	Social and Political Sciences	Communication	Undergraduate	Management PR	SIK40040	3		1	Depok	<p>The subject is designed to introduce Public Relations the students and how to develop and manage a PR program.</p> <p><b>Prerequisite subjects: Introduction to Public Relations.</b></p>		

528	Social and Political Sciences	Communication	Undergraduate	Communication Research Method II (Qualitative)	SIK40052	3		2	Depok	<p>This subject provides students with a foundation of advanced understanding of qualitative inquiry in communication studies in respect of both the recent past and contemporary research. This subject will encourage students to engage with empirical qualitative inquiry materials concerning key aspects of the logics, structures, and processes of communication research. On completion of this subject students should have developed a strong grasp of the major thematic issues in the fast growing area of qualitative research in communication studies.</p> <p><b>Prerequisite subjects: Social Research Methods.</b></p>		
529	Social and Political Sciences	Communication	Undergraduate	PR/Effective Writing Techniques	SIK40060	3		2	Depok	<p>This course is designed to be an introduction to the broad concept of public relations where students will progress through the topics of the profession: the nature, history and theoretical basis of public relations, the process of public relations which include research, strategic planning, communication and evaluation.</p> <p>Public relations is increasingly vulnerable to legal liability so students will need to be acquainted with key legal issues since public relations work with organizational lawyers in the area of litigation. In addition, this course intends to establish the nature and complexity of strategic public relations that describe five general public that most public relations professionals face on a regular basis and where public opinions are formed. As public relations serves all types of organizations (governmental, nonprofit and corporation), students will be prepared to recognize the process of communication, the role of public relations in organizational decision with the four-step public relations process.</p>		
530	Social and Political Sciences	Communication	Undergraduate	Cyber PR	SIK43000	3		1	Depok	<p>This course is designed to build an understanding of the principles of Cyber Public Relations communications through an introduction of various Internet-based media platforms in order to the interest of Public Relations practices for both an organization (Corporate PR) and an individual (Personal PR). The media platforms include Website/Blog, Social Media (Facebook, Twitter, LinkedIn, MySpace, etc), YouTube and Wikis.</p> <p>In addition, this course intends to introduce the strategies and tactics to optimize the use of those media for the image building of an organization and an individual, as well how to handle crisis communications in social media.</p> <p><b>Prerequisite subjects: Introduction to Public Relations.</b></p>		
531	Social and Political Sciences	Communication	Undergraduate	Special Event Management	SIK43001	3		2	Depok	<p>This course teaches the students the basic techniques and processes behind the event planning and management. Event management and planning will delve deeper into processes that surround the student's particular venue and event choices. Galas, meeting, celebrations, grand openings, conferences, product launching and gathering are the topic that will be covered in the class.</p>		
532	Social and Political Sciences	Communication	Undergraduate	Consumer Analysis	SIK51008	3		1	Depok	<p>This course will discuss concepts in macro and micro level that comprise consumer behavior. Furthermore, this course will explore why consumers behave, what influence them, and how it will eventually create consumer culture. In relation with advertising and marketing communication activities, this course intends to highlight the importance of understanding consumer behavior in developing and implementing marketing communication plan.</p> <p><b>Prerequisite subjects: Marketing.</b></p>		
533	Social and Political Sciences	Communication	Undergraduate	Introduction to Graphic Design	SIK51011	3		2	Depok	<p>This course provides basic knowledge of graphic design in relation to advertising and communication. Included in the discussion are the elements and principles of design, typography, colour theory, logo and symbol, image editing and photomontage, layout and compositing, desktop publishing and pre-press/production processes, graphic design for web and multimedia, and the development of visual concept for print advertisement.</p>		
534	Social and Political Sciences	Communication	Undergraduate	Advertising Photography	SIK51017	3		2	Depok	<p>In this course, students learn to take digital photos that reflect their understanding of the fundamental aspects of photography, which are significance to Advertising Major and also photography in practice. Several theories of photography will be discussed and applied during the semester. Creative and technical instruction will be presented, works from well-known photographers will also be discussed in order to broaden students' perspective in the industry. As a final product, students will create a portfolio with about 5 photos including detailed descriptions of their work.</p>		
535	Social and Political Sciences	Communication	Undergraduate	Internal Relations	SIK51020	3		1	Depok	<p>This course is designed to be an introduction to internal relations as an integral part of communications.</p> <p><b>Prerequisite subjects: Introduction to Public Relations.</b></p>		

536	Social and Political Sciences	Communication	Undergraduate	PR Campaign	SIK51022	3	2	Depok	<p>This course is designed to familiarize the students with practical guidelines on how to develop an effective Public Relations (PR) campaign. It will be presented in easy-to-follow steps, allowing the students to learn how to understand and formulate an impactful and complete communications campaign from 'start to finish' based on insightful information that they receive and analyze.</p> <p>Examples of successful PR campaigns will be critically examined with a view of guiding the students to plan, implement and evaluate the campaigns by themselves. Practical tips and advice will be given throughout the course to help enhance the students' understanding of this very important subject for their future career.</p>
537	Social and Political Sciences	Communication	Undergraduate	Interactive Media & Marketing	SIK51032	3	2	Depok	<p>The course designed to be a preliminary introduction on concept of Interactive Media and market where students will go through a new multimedia technology and how internet has evolve and shape marketing channel and differentiate on how they communicate and interact. This course will be an interactive course whereas students expose to necessary implementation concept of interactive marketing and able to draft a strategy communication formulation and yet implementation.</p> <p><b>Prerequisite subjects: Marketing.</b></p>
538	Social and Political Sciences	Communication	Undergraduate	Proposal Writing & Presentation Technique	SIK51044	3	2	Depok	<p>The course is aimed at developing fundamental, formative skills in advertising. It will be focused on two key aspects: (1) providing students with the essential understanding, conceptual framework and systematic approach necessary in the development/preparation of advertising proposals; and (2) the acquisition and application of important techniques and styles in the presentation of these proposals.</p> <p>Because of its critical importance to the professional world of advertising, proposal writing and its attendant presentation skills will be the foundation builders in making the students advance their understanding of how all the elements of what makes a great advertising campaign come together. As such, the course is intended to further provide for a more thorough thinking process for the students in involved writing, powerful speaking and engaged argumentative thinking.</p>
539	Social and Political Sciences	Communication	Undergraduate	Community Relations	SIK52004	3	2	Depok	<p>This course is aimed at introducing students to basics of community relations and corporate social responsibility programs, the dynamic of community and corporate interaction. This course intends to build knowledge through theoretical and practical tools where students are exposed to principles and techniques of cordial and beneficial relationship between a corporate organization and its community. Through this course, students will also learn, among others, the concept of the community, importance of good community relations policies and programmes, managing community issues, concerns, conflicts and crisis, corporate social responsibility, and case studies in corporate community relations.</p>
540	Social and Political Sciences	Communication	Undergraduate	Ethics in Advertising	SIK52007	3	2	Depok	<p>This course will introduce students to the study ethical issues in Advertising. Students will develop an understanding and appreciation of these issues and the ability to analyze the important legal and ethical issues involved in Advertising industry.</p>
541	Social and Political Sciences	Communication	Undergraduate	Communication in Organization	SIK52011	3	2	Depok	<p>Organizational communication is strategic in two senses. Organizations emerge from strategic choices about how they will be designed and operated. Societies and organizations face a fundamental dilemma ? they must control and coordinate activities of their member but by doing so frustrated their members need for creativity and sociability.</p> <p>This course is designed to be an introduction to the broad concept of strategic organizational communication where students will progress through the topics of among others, Key to Strategic Organizational Communication, Challenges in the Twenty First Century, Communication, Decision Making and Conflict in Organization.</p>
542	Social and Political Sciences	Communication	Undergraduate	Media Relations	SIK52018	3	1	Depok	<p>This course is designed to develop the student knowledge and skills necessary for media relations practices as part of Public Relations program. The course focuses on the effective media relations, educating students to channel the key messages, select the most suitable media outlets, and, ultimately reach the right audience segment. Students will also learn the effective ways to deal with the media, both national and international media, in a variety of contexts.</p>
543	Social and Political Sciences	Communication	Undergraduate	Introduction to PR	SIK52024	3	2	Depok	<p>This course is designed to be an introduction to the broad concept of public relations where students will progress through the topics of the profession: the nature, history and theoretical basis of public relations, the process of public relations which include research, strategic planning, communication and evaluation.</p> <p>Public relations is increasingly vulnerable to legal liability so students will need to be acquainted with key legal issues since public relations work with organizational lawyers in the area of litigation. In addition, this course intends to establish the nature and complexity of strategic public relations that describe five general public that most public relations professional face on a regular basis and where public opinions are formed. As public relations serves all types of organizations (governmental, non-profit and corporation) students will be prepared to recognize the process of communication, the role of public relations in organizational decision with the four-step public relations process.</p>

544	Social and Political Sciences	Communication	Undergraduate	English	UIH1010	3		1	Depok	This course is designed for the students of the Communication International Class to improve their English to be able to study at the Faculty of Social and Political Sciences, University of Indonesia. The English component for this class aims to prepare the students to participate fully and effectively in their studies in Indonesia and other speaking countries.		
545	Computer Science	Computer Science	Undergraduate	Introduction to Digital Systems	CSCM601150	4	525368	1	Depok	This course is devoted to understanding design technique of digital systems using high-level programming language (High Level Language). The language used is VHDL (VHSIC Hardware Description Language). VHSIC stands for Very High Speed Integrated Circuit, which is the term applied to the IC development project in the Department of Defense (DOD) United States. Better understanding of VHDL's elements, behavioral modeling techniques (behavioral), dataflow modeling and structural modeling are included in the lecture material. The elements of programming, including configurations concepts, subprograms, overloading, packages and libraries, also examples of modeling digital circuits common in digital systems will also be discussed in the course. Laboratory facilities support is a set of FPGA board and development tools from Xilinx.		
546	Computer Science	Computer Science	Undergraduate	Introduction to Computer Organization	CSCM601252	3		1	Depok	This course taught the basics of sequential computer organization, which consists of the components: input, output, memory, and processor (datapath and control), through programming with assembly language. After passing this course, participants are expected to: 1. Understand the basic concepts of computer systems 2. Knowing how to execute machine language instructions 3. May use assembly language to access the components in a computer system (input, output, memory, and processor (datapath and control)). This course taught the basics of sequential computer organization, which consists of the components: input, output, memory, and processor (datapath and control), through programming with assembly language. After passing this course, participants are expected to: 1. Understand the basic concepts of computer systems 2. Knowing how to execute machine language instructions 3. May use assembly language to access the components in a computer system (input, output, memory, and processor (datapath and control)).		
547	Computer Science	Computer Science	Undergraduate	Advanced Programming	CSCM602023	4		4	Depok	The course is a further study of Foundations of Programming. It will provide techniques for programming in the large and multithreading. Topics of the course include: Concurrent Object-Oriented Programming: threads, objects and concurrency, safety and liveness, performance, reusability, patterns. Exclusion principle: immutability, synchronization, confinement, structuring and refactoring classes, lock utilities. State dependence, concurrency control utilities, transactions. Creating threads: one-way messages, services in threads, parallel decomposition, active objects. Programming in the large. Client/server. Java servlet. Issues in open-source software projects. Each enrolled student will have to undertake at least two projects, which should be done in group.		
548	Computer Science	Computer Science	Undergraduate	Mathematics 1	UIST601014	3	525445	1	Depok	This course teaches the following topics: system of real numbers and complex numbers, inequalities and absolute value, functions of one variable, graphs (Cartesian, polar, parameters), operations on functions, limit theorems, continuity, basic formulas, the chain rule, high-level derivative, implicit derivative, derivative applications, determinate and indeterminate integral, fundamental theorem of calculus, properties of the integral, techniques of integration. Students understand the basic concepts of calculus and have problem-solving skills in applied calculus.		
549	Computer Science	Computer Science	Undergraduate	Mathematics 2	CSCM602115	3		2	Depok	This course provides the advance topics in Mathematics such as: Integral Applications, Irregular forms and Improper Integrals, infinite sequences and series, geometry in space and vectors, function with two or more variables, and multiple integral. The students need to understand the basic concepts of calculus and are skilled to solve the problems on advance calculus.		
550	Computer Science	Computer Science	Undergraduate	Physics 1	UIST601111	3	525354	1	Depok	This course provides the topics on Physics such as vectors and scalars. Motions in one, two or three dimension, Newton's Laws, Work and Kinetic Energy, Momentum, Impulse and Collisions, Gravitation, Solids and Solid's Rotations, Dynamics of Rotational Motions, Dynamics of Rotational Motions, statics and elasticity, fluid mechanics, periodic motion, temperature, and heat and thermodynamics laws. At the end of this course, the students need to understand about the concepts of basic physics, explain, and perform calculation about natural phenomenon based on those concepts.		
551	Computer Science	Computer Science	Undergraduate	Automata and Language Theory	CSCM602241	4	525438	3	Depok	This course covers theoretical models of computation as well as formal languages which form the foundation of all computer systems. This course includes the following topics: finite state automata and regular languages, pushdown automata and context-free languages, Turing machines and recursively enumerable languages, decision problem and (un)decidability (1) understand the fundamental concepts of computation theory. (2) understand several abstract machines with their languages and expressions, and able to design and develop the machines (3) understand the fundamental concepts of computation complexity.		

552	Computer Science	Computer Science	Undergraduate	Software Engineering	CSCM603125	3		4	Depok	<p>The course covers the cycle of software development, which consists of planning, analysis, design, coding, testing and maintenance. The course is related to a project. The students will form a group and has a project to be done within one semester.</p> <p>The topics include software development methodology, computer aided software engineering (case) tools; planning the software development project; analysis of the problem and user requirement; software specification organization; basic principal for software design; problems in coding; software quality assurance; software quality measurement; software testing; software maintenance.</p> <p>After completing this course, students are able to: (1) understand the SE concepts, include (methodology, life cycle, from planning to maintenance) (2) Diagramming or modeling based on UML.</p>		
553	Computer Science	Computer Science	Undergraduate	System Programming	CSCM603127	3		5	Depok	<p>This course provides the general concepts of an operation system, especially GNU/Linux. The students will be introduced to various levels/layers/implementations of an operation system such as process management, file systems, IPC, network socket, and kernel structure. The assignments will use C/C++ as the programming language and also some scripting tools to modify the files.</p>		
554	Computer Science	Computer Science	Undergraduate	Intelligent Systems	CSCM603130	4	525389	4	Depok	<p>This course provides an introduction to the many techniques and subfields of Artificial Intelligence (AI). It aims to equip the students with a theoretical understanding of the issues involved with the development of intelligent, autonomous agents and multi-agent systems, as well as practical knowledge of developing and programming such agents. The course covers state-space search (including heuristic and local search), logical approaches to knowledge representation and reasoning, as well probabilistic approaches to AI, e.g. Bayesian networks, machine learning.</p> <p>After taking this course, students are expected to: (1) Understand the central concept of intelligent, autonomous software agents, (2) Be able to apply the state space search framework to a complex problem, and design and implement a suitable search agent, (3) Be able to apply heuristic and local search techniques to overcome the issue of complexity in state space search, (4) Be able to use symbolic logic as a knowledge representation language to model aspects of the real world, and understand the tradeoff between representation and reasoning, (5) Understand the principles of probabilistic reasoning and learning from data.</p>		
555	Computer Science	Computer Science	Undergraduate	Computer Network	CSCM603154	4		4	Depok	<p>This is an introductory course to computer networking, to provide the students with basic knowledge on networking applications and how they work at the lower layers.</p> <p>To study the basic concepts of communication networks, protocols and their performance.</p> <p>After completing this course the student should be:</p> <p>(1) able to estimate the delay in a network.  (2) able to analyze traffic from one user  (3) design a reliable transport protocol  (4) design and trouble shoot an IP network.</p>		
556	Computer Science	Computer Science	Undergraduate	Numerical Analysis	CSCM603217	3	525645	5	Depok	<p>This is a one semester course covering the basics of practical scientific computing to computer scientists. Topics ranging from basic mathematical principles and algorithms of numerical analysis to practical issues ranging from software reliability to performance on modern computing hardware. The outline below contains details of contents. The prerequisites are linear algebra and calculus. Students are expected to program in C or Matlab to carry out their assignments, thus adequate programming skills are essentials.</p>		
557	Computer Science	Computer Science	Undergraduate	Software Engineering Project	CSCM603228	6	525396	5	Depok	<p>The course provides the students with the experience to be actively involved in a 14-week SE project. It is expected that the students are able to synthesize and implement the knowledge from the related courses to develop an SE Project.</p> <p>The students work in a team, which consists of 4 to 5 students. All members must be actively participated in every role in SE project, i.e. project management (PM), business modeling and requirements (BR), analysis and design (AD), implementation (I), and testing (T). Each team member must participate in every activity of a software development life cycle, i.e. communication, planning, modeling, construction, and deployment. A 14-week SE project is assigned to a team or several teams, depending on the scope and complexity of the project. The project problem is real, with real users.</p> <p>During the project development, each team has several meetings with the users, as well as the internal team meetings. All meetings are recorded in the Minutes Of Meetings (MoMs), which will be considered in the grading. Every team also presents their weekly progress in front of the course lecturers and assistants. Any problem in the development process is discussed in the weekly meeting. At the end of the semester, all teams demonstrate their projects in front of the users, course lecturers, and assistants.</p> <p>There are also two sessions of guest lecturers from reputable SE practitioners. They share their knowledge and best-practices in the management and development of SE projects.</p>		



558	Computer Science	Computer Science	Undergraduate	Data Science & Analytics	CSCM603234	3		6	Depok	This course provides basic principals, techniques, and tools that are used in data science and analytics in order to extract the information or knowledge from a data. The principals and techniques are discussed based on various fields such as statistics, probability, database, machine learning and other computer science fields. Some important concepts are data collection and integrations, exploratory data analysis, statistical inferences, Bayesian modelling, and data visualization. Ethical aspects, privacy and security in data science and analytics will also be discussed during the course. This course emphasizes on how to perform the integration of the given principals and techniques to solve problems in data science and analytics.		
559	Computer Science	Computer Science	Undergraduate	Algorithm Design & Analysis	CSCM604142	4		6	Depok	This course provides an understanding on how to design and analyse an algorithm to answer the programming problems focusing on two main issues i.e. Correctness and Complexity. (1) Student is able to design an algorithm to solve programming problems utilizing design strategies such as iterative, recursion, divide and conquer, dynamic programming, greedy approach, backtracking, branch and bound. (2) Student is able to prove correctness of an iterative algorithm. (3) Student is able to analyze complexity of an algorithm and able to represent the algorithm complexity using the standard notation for such complexity. (4) Student is able to recognize the complexity limitation within a computational model and able to distinguish the various class of problems within that limitation.		
560	Computer Science	Computer Science	Undergraduate	Discrete Mathematics 1	CSGE01010	3	525369	1	Depok	In this course, student will learn and demonstrate knowledge and understanding of the discrete mathematics appropriate for computer applications. Topics include propositional logic, predicate logic, set theory, functions, number theory, methods of proof, mathematical induction, the pigeonhole principle, permutations, combinations.		
561	Computer Science	Computer Science	Undergraduate	Discrete Mathematics 2	CSGE01011	3		2	Depok	This course is a continuation of Discrete Mathematics I and provides more theoretical foundations to computer science. This course covers combinatorics, relations, and graph theory.		
562	Computer Science	Computer Science	Undergraduate	Foundations of Programming 1	CSGE01020	4	525367	1	Depok	This module aims to teach the fundamental concepts and techniques of computer programming through the object-oriented paradigm with the Java programming language. This module is taught using a combination of lectures and hands-on programming exercises. Each student sits at a desk equipped with a personal computer connected to the Internet. Remember that programming cannot be taught in a linear way, but previous topics should be revisited at a deeper level subsequently. (1) Describe the history of the programming language and its evolution from machine language to high-level language. (2) Comprehend the basics of programming concepts and construct. (3) Define the terms Class and Object, and understand the basic paradigm of object orientation. (4) Have knowledge on the theory of control statements, such as selection and iteration. (5) Properly organize large programs by creating methods and using those available in class libraries. (6) Process data within a list or a table. (7) Properly design reusable classes and realize the fundamentals of inheritance. (8) Understand the relationship among classes within a hierarchy and reveal polymorphism within objects. (9) Create error-free applications by properly handling exceptions. (10) Accurately pass data to secondary storage devices, and understand the differences between text and binary data files. (11) Design and build graphical user interface (GUI). (12) Understand and construct program documentation.		
563	Computer Science	Computer Science	Undergraduate	Foundations of Programming 2	CSGE01021	4		2	Depok	This course is the second part of two-course sequence. The first course is Foundations of Programming 1. This course enhances the knowledge and experience of the previous course to build the required programming skill. It introduces new paradigms in standard modern programming language (such as lambda and generic programming where applicable to the chosen programming language). Topics may include: (1) Problem Solving and introduction to algorithm (2) Testing First (unit test) (3) More on methods, parameters, and lambda (anonymous function) (4) More on Recursion (tail recursion, recursion on simple data structure) (5) Basic sort & search algorithm (including approximation, newton-raphson) (6) Debugging (7) Introduction to profiling (8) Class Diagram (9) More on OOP (10) IDE support, version control (11) Modules, Packages (12) API (Application Programming Interface) (13) GUI (14) Introduction to Software Architecture		
564	Computer Science	Computer Science	Undergraduate	Linear Algebra	CSGE02012	3	525385	2	Depok	This course prepares students to solve problems associated with matrix algebra and vector space concepts. In addition, this course equips students with logical reasoning and mathematical abstraction. Therefore, the active involvement of students is a must. In accordance with the purpose of Mathematics learning, Linear Algebra course has two interrelated main purposes which are to sharpen reasoning and problem solving skills.		

565	Computer Science	Computer Science	Undergraduate	Statistics and Probability	CSGE602013	3	525381	3	Depok	This course discusses the theory of probability and its application in computer science. Topics included in this course are: introduction (probability review, transformation), stochastic process (definition and qualification, Poisson process, birth-and-death process, Markov chain), queuing systems (equilibrium solution, Little's Theorem, MM/1, M/M/Y, M/M/m, M/M/m/m, M/G/1, etc), application on operating system, application on computer network.		
566	Computer Science	Computer Science	Undergraduate	Web Design and Programming	CSGE602022	3		3	Depok	HTML and CSS, which are the basic building block of webpages, are the first two topics covered in this subject. This subject then discusses dynamic web presentation using javascript. Javascript is also the foundation of ajax programming style which is introduced at the end of the program. Server-side programming is then discussed using PHP scripting language and ASP. To enrich web presentations, this subject also discusses image creation for web pages and animation. This subject teaches students to design web pages, to plan and implement websites, and to program dynamic websites. Upon completion of this subject, students are expected to have the knowledge of building good and usable web pages and to be able to implement dynamic website contents using client-side and server-side programming paradigms.		
567	Computer Science	Computer Science	Undergraduate	Data Structure and Algorithm	CSGE602040	4		3	Depok	This course teaches basic techniques for data abstraction, access algorithms, and manipulation of the abstract structures, as well as an introduction to complexity analysis of space and time allocation in implementing the algorithms. The topics covered are: Abstract Data Type Concept, Linear Data Model: arrays and dynamic lists, stacks and queues, sets, Hierarchical Data Model: Binary tree, Heap, Binary search tree, AVL-tree, Red-Black tree, B-tree, Trie, Graph Model, Hashing, Searching and Tracing Algorithms		
568	Computer Science	Computer Science	Undergraduate	Operating Systems	CSGE602055	4	525383	3	Depok	The course will start with a brief introduction of operating systems, the relationships between hardware and operating systems, and some major components of most operating systems have. This class will cover the tradeoffs that can be made between performance and functionality during the design and implementation of an operating system. Particular emphasis will be given to three major OS subsystems: process management (processes, threads, CPU scheduling, synchronization, and deadlock), memory management (segmentation, paging, swapping), file systems, secondary storage and operating system support for distributed systems. After completing this course, students are able to: (1) Understand the role of an operating system. (2) Understand how to decompose a program and execution. (3) Understand the main concepts of concurrency, their problems and solutions. (4) Describe the concept of process and memory management. (5) Understand how the mechanism of CPU scheduling and algorithm. (6) Understand the idea and implementation of virtual memory. (7) Understand features and concept of file system and I/O devices. (8) Analyze performance issues related to how OS manage the hardware.		
569	Computer Science	Computer Science	Undergraduate	Database	CSGE602070	4		4	Depok	This course discusses the basic concept of database management that includes aspects of modelling and design, language and facility, implementation and the applications of databases. Topics included are: architecture and concept of database management systems (DBMS), file structure and organization, indexing, data modelling using entity-relationship models, data modelling using relational models, formal query languages, relational algebra, object-oriented databases, SQL and ODBC, functional dependencies, normalization of relational databases, algorithm and relational database design process, query processing and optimization, transaction, concurrency control, database recovery and client-server database. (1) Given a real-life problem that will be represented into database application, students can design database application correctly by evaluating all related requirements. (2) Given database queries, both simple and complex, students can use SQL to complete that query correctly. (3) Given a logical database schema, students can decide appropriate data types for each field and constraints for each table and implement Data Definition Language (DDL) and Data Manipulation Language (DML) in the one of the popular Data Base Management System (DBMS).*		
570	Computer Science	Computer Science	Undergraduate	Scientific Writing & Research Methodology	CSGE603291	3		5	Depok	This course focuses in introducing the research methodology and scientific writing for Information Technology and Computer Science. Through this course, students are introduced to think logically in conducting a research. This course will be discussing in depth how to perform the process of research within the field of Computer Science and Technology of information, such that students can conduct an optimal research. In addition, this course will also discuss the role of research as the basis to understand the new knowledge in the field of Computer Science and Information Technology.		
571	Computer Science	Computer Science	Undergraduate	Computer & Society	CSGE614093	3	524208	5	Depok	This course is being offered to provide students with awareness and sensitivity toward social and economic issues surrounding the application of computer's technology in everyday life. Students are expected to be able to positively respond to the existing societal problems within the context of computer science discipline. Students will be presented with IT-related issues, and it is expected that they are able to analyze the issues and come up with suggestions or possible solutions from their perspective as a CS student. Objectives of this course include: (1) Providing discussion on issues related to social, ethics, and profession aspects. (2) Providing general survey of cultural impacts of technology, particularly computer technology, and to stimulate reflections upon the social and ethical issues. (3) Enabling students to make informed value judgment in their profession. (4) Developing professional responsibilities.		

572	Humanities	English	Undergraduate	Academic English	HMEN 61002	3			Depok	This course aims to improve students' academic English skills that cover reading, listening, speaking, writing and grammar. Students will be able to implement reading strategies, such as skimming, skimming or finding main ideas, in understanding academic texts. They will also be able to critically evaluate those texts and present their ideas through discussions, presentations or through writing, for example in a paragraph and essay, in an intermediate level. The course will implement interactive lectures, role-plays and cooperative learning.		
573	Humanities	English	Undergraduate	The Development of Hollywood Film Industry	HMEN 610049	3			Depok	The materials for this course cover the historical development of Hollywood film industry as a cultural industry, starting from the early 20th century with the establishment of Nickelodeon movie theater up to the globalization era when Hollywood dominates the world's film industry. Each momentum in its historical development will be thoroughly discussed, such as elements of film exhibitions, production and distribution. Students are expected to gain substantial competence in analyzing Hollywood films in their social, cultural and historical context through interactive lectures, small group discussions and collaborative learning.		
574	Humanities	English	Undergraduate	English in Global Context	HMEN610030	3			Depok	This course aims to explore the development of English language in its global context. English will be critically analyzed as an empowerment tool for citizens in ex-colonized countries or immigrants. The materials used in class cover all kinds of contexts, such as English in the Middle East, South Asia, South East Asia, Europe and also the United States. The course will implement interactive lectures, small group discussions and cooperative learning.		
575	Humanities	English	Undergraduate	Identity and Popular Culture	HMEN 600051	3			Depok	This course provides the necessary conceptual framework for students to be able to critically analyze issues and case studies related to identity construction within the production, distribution and consumption of popular culture. The main issues to be discussed are race, ethnic, religion, gender and social class identities as they are negotiated or identity as 'self positioning' and 'being positioned'. Students will learn how to analyze films, television series, music, advertisements and social media through multiple methods ranging from textual analysis to ethnography. The class will incorporate active learning process, such as small group discussions and project based learning.		
576	Humanities	English	Undergraduate	Introduction to Asian American Studies	HMEN 600053	3			Depok	This course aims to introduce Asian American Studies as a perspective in understanding American values. The history and cultural development of Asians in North America has a significant role in constructing how these minority groups are positioned with the American society. The class will incorporate active learning process, such as cooperative learning and project-based learning. The major topics that will be discussed are race and gender, migration, diaspora and transnationalism		
577	Humanities	English	Undergraduate	Nation and Nationalism	HMEN610027	3			Depok	The course aims to provide the necessary framework for students to understand the process of nation building and the definition of nationalism. By utilizing several approaches, the course will also discuss issues of local global and the implication of globalization in the process of nation building.		
578	Humanities	English	Undergraduate	Children Literature	HMEN610050	3			Depok	The course aims to provide knowledge on the development of English children literature, types of children literature and the approaches which can be used to analyze children literature texts. Students are expected, after taking course, to be able to identify multiple subgenres in children literature and analyze them with a critical perspective. The learning methods include interactive lectures, discussion and cooperative learning.		
579	Humanities	English	Undergraduate	Race, Gender and Social Relation	HMEN610050	3			Depok	The class aims to provide students with the necessary knowledge on gender concepts and the variables in issues related to race, gender and class relations. Students are expected to be able to analyze cultural texts and cultural practices utilizing the methods and approaches they receive in this class upon finishing the course. The learning methods include interactive lectures, discussion and cooperative learning.		
580	Humanities	English	Undergraduate	Introduction to English Teaching Methods and Theories	HMEN610026	3			Depok	After finishing this course, students are expected to be able to explain basic concepts of teaching and learning English, use these concepts in their teaching practices and also have the ability to assess whether or not the learning and teaching process is successful. The course covers a variety of issues and concepts, latest development about teaching languages, psychological factors and also those concerning personality of the teachers and students in teaching English. To join this course, the students must have a pre-intermediate level of English.		
581	Humanities	Indonesian Studies	Undergraduate	Kebudayaan Indonesia								
582	Humanities	Indonesian Studies	Undergraduate	Manusia dan Masyarakat Indonesia								
583	Humanities	Indonesian Studies	Undergraduate	Kemahiran Bahasa Indonesia I								
584	Humanities	Indonesian Studies	Undergraduate	Penulisan Kreatif								
585	Humanities	Indonesian Studies	Undergraduate	Kapita Selekta Sastra Indonesia								
586	Humanities	Indonesian Studies	Undergraduate	Sastra Bandingan								
587	Humanities	Indonesian Studies	Undergraduate	Sastra Populer								