

JBNU INTERNATIONAL COURSES

JBNU Office of International Affairs offers basic courses in Engineering, Science, Culture & Society, Language & Literature and Commerce with high-quality English and other languages for foreign students. Also domestic students can take the course. (One course: 3 credits)

* In addition, Global Frontier College and several majors offer diverse classes in English.

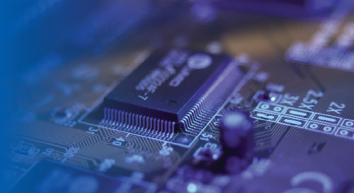
ENGINEERING | SCIENCE | LANGUAGE & LITERATURE | CULTURE & SOCIETY | COMMERCE



JEONBUK NATIONAL UNIVERSITY
OFFICE OF INTERNATIONAL AFFAIRS

ENGINEERING

8 Courses



Introduction to Electronics



Introduction to Electronics is intended to teach fundamentals in electronics for electronics technology, computer technology, and telecommunications. Electronics is a science which includes devices, processes and equivalent circuits. Electronic devices and processes that use the electromagnetic energy conversion to transfer, and store energy, signals, control and computer systems. Recently, the electronic devices in the aspect of human activity contribute largely for developing and solving complex scientific/technical problems. It is believed that the basic knowledge of electronics, circuits and devices is helpful for the students to choose their career in electronic engineering.

Solar Energy Engineering



Current scenario of world economy is vastly governed and depends on the growth and supply of energy. The continuous changes in global climate happen due to excessive uses of fossil fuels for high energy supply, as they release non-friendly by-products. Solar energy as future energy technology is the most adopted renewable resource for supplying the energy without CO₂ emission then solar device can directly convert clean and abundant solar energy into electrical energy. This course includes the fundamentals of solar materials, types of solar cells, linking nanotechnology to offer low price/light weight solar devices and manufacturing of solar system.

Introduction to Nanotechnology and Nanoscience



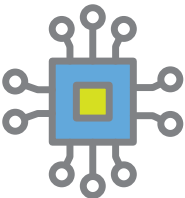
Nanotechnology is a unique and distinct discipline rather than a specialization within a larger field. The course 'Introduction to Nanotechnology and Nanoscience' builds a solid background in characterization and fabrication methods while integrating the physics, chemistry, and biology facets. This subject includes the engineering aspects as well as nanomaterials and industry-specific applications such as energy, electronics, and biotechnology. Nanoscience elucidates the nanoscale along with the societal impacts of Nanoscience and presents an overview of characterization and fabrication methods. Focusing on the fundamental principles of nanoscience and nanotechnology, this course provides a deep understanding of the nanoscale.

Renewable Energy



Renewable energy, often referred to as clean energy, comes from natural sources or processes that are constantly replenished. This subject is designed to provide broad understanding of renewable resources and covers a multidisciplinary approach for classroom teaching. This course teaches the resources that constrain our energy systems and the operation of renewable energy systems in terms of basic electrical and physical principles. To make the lectures interesting, pictorials, theories, new concepts and future prospective of renewable energy are discussed in the class and study materials are presented through power points presentations.

Introduction to Semiconductors



Semiconductors are materials which show conductivity between conductors and nonconductors or insulators. Semiconductors offer controlled current generation by the flow of electrons and holes. This subject offers a unique, state-of-the-art look at the novel semiconductors. Semiconductor class essentially covers a multi-disciplinary approach for classroom teaching. The class focuses particularly on intrinsic semiconductors, generation and recombination in semiconductors, extrinsic and intrinsic semiconductors, N-type, P-type, minority charge carriers etc. To make the lectures interesting, pictorials, theories, new concepts and future prospective are discussed in the class and study materials are presented through power point presentations.

Data Science Using R



Data science is an interdisciplinary field larger than statistics. It is defined as the process to extract applicable knowledge from data, that is, to transform data into actionable prediction. Students learn each steps of data science process such as data collection, exploration, visualization, wrangling, modeling, and validation. Through examples and mini-projects, students also familiarize themselves to using R, which is one of the widely used open-source, clear, and extendible data science tools.

Science and Technology of Modern Electronics



Advances in science and technology have established the foundation for the design, production, and development of modern electronics. This course will provide an overview on the working and design principles, and the production processes of modern electronic systems including computers, displays, sensors, and batteries from a materials science perspective. Students will understand how materials can supply power to mobile electronics and how the information is gathered, processed.

Applied Chemistry



Due to the fast development of human civilization, the role of applied chemistry is greatly increasing to try answer specific question or solve real-world problem relating to scientific area or critical challenges of living quality and environment, such as global warming and environmental pollutions, etc... Applied Chemistry course is solidly founded in chemistry for providing students a basis to understand fundamental concepts/principles in applied science and to find smart solutions for science and technology issues through their participation in some interesting subjects: (1) Advanced materials and nanotechnologies; (2) Renewable and clean energy technologies; (3) Sensors and environmental chemistry....

SCIENCE

2 Courses



Healthy Lifestyle for Better Health (1) (2)



The aim of the 'Healthy Lifestyle for Better Health' course is to help students reach a high degree of health by changing their behaviors in the preferred direction and understanding at an early age in order to escape disease. This course is intended to help the student recognize the most important risk factors that affect his or her present and future conditions of wellness; and to assist the student in making positive lifestyle improvements that improve the opportunity for wellness.

LANGUAGE & LITERATURE

3 Courses



Deutsche Konversation (Conversational German) - German class



This course aims to help students to acquire basic knowledge of German through the teacher-centered instruction and classroom activities. No prior knowledge of German is required to take this course. From interactions with the native speaker teacher, you will not only learn basic German but also salient German culture.

Discourse & Communication



This course aims at familiarizing the students with inter-personal and non-literal meaning. They learn speech acts, perlocutions and illocutions, felicity conditions, direct and indirect illocutions, propositions and illocutions, conversational implicature, idioms, metaphor, and metonymy. In relation to implicature, the course deals with the cooperative principle and Gricean maxims. Furthermore, it covers Horn's Q- and R- principles, Levinson's heuristics, and Sperber and Wilson's relevance theory.

Shakespeare on Screen



The cinema has been a major cultural medium in modern society to appreciate, resuscitate, and reinvent Shakespeare and his drama. This course invites students to explore two of Shakespeare's plays, *Macbeth* and *The Tempest*, along with their modern film adaptations. We will also be viewing two films that depict Shakespeare's life. Through class discussion and writing assignments, students will (1) gain familiarity with cinematic terminology, (2) practice a critical analysis of texts (including film-texts), and (3) develop effective ways of presenting and writing about their ideas.

CULTURE & SOCIETY

7 Courses



Area Studies 1 (Introduction to International Studies)



The course objective is to provide students with an introduction to the field of International Studies through focusing on the key concepts, theories, themes and topics in the field. It will assume no prior knowledge. The course will look at state and non-state actors in international relations, how they are understood and why they are studied. The role and function of the United Nations will also be looked at. The course will also look at dominant theories in international relations that seek to explain human behavior and social dynamics. The second half of the course will concentrate on many of the key topics that face the international community in various and all regions of the world today such as Environmental Challenges, International Terrorism, War and Genocide and the role and threat of Nuclear Weapons.

Area Studies 3 (Reading Contemporary Korea)



The course objective is to provide students with an introduction to the modern history of the Korean Peninsula since 1945. It will examine the reality of two Korean states while looking at the many cultural, economic and political changes that have happened since the division of Korea. By studying the different paths North and South Korea have taken, the course will help to show the rise of South Korea, the challenge of North Korea and the role and relevance of the Korean Peninsula in the 21st Century international community.

Introduction to Public Administration



This course Introduction to Public Administration aims to introduce the practice and theory of public administration as follows: Introduction to Public Administration and History; Ethical Perspectives, Values and Politics in Public Administration; Organizational Theory; Human Resource Management; Public Decision Making; Public Budgeting; Performance and Evaluation; Collaborative Governance and Network Management; Social Equity; Leadership; and Ethics and Technological Change. Students are supposed to take exam(s) and present their ideas with their essays (or reports).

Science and Civilization in Korea



Today's Korea is acknowledged to be among the leading group in cutting-edge science and technology. However, science, technology, and medicine (STM) has always played integral roles throughout the history of Korea, although it might seem different from today's "universal" STM. This introductory course will provide students with an outline of the history of STM in Korea, from the past to the present. This class invites students interested in approaching history of Korea from a new perspective. Anyone interested in the topic is welcome, regardless of prior knowledge on the history of Korea, or on the history of science in general.

Korean Films



'Korean Films' is a course designed for international students who are interested in Korea and films. Through watching and discussing Korean films, we learn Korean culture, tradition, history, and society and understand Korea, the nation and the people, in an extensive scope. We will watch a variety of films including classical, modern, independent, commercial, and controversial ones. The course will help students cultivate and expand their intellectual capability as well as English proficiency. It requires some amount of writing before each class, which results in productive and meaningful discussions. The course is held only in English.

東北亞社會與大眾文化 (Northeast Asian Society & Popular Culture) - Chinese class



This subject is for the analysis and discussion of literary aesthetics. From the analysis of concepts, categories, propositions, it combines with concrete examples based on the Confucian morals and culture, and interprets the aesthetic of literature through appreciation.

東北亞人文歷史 (Northeast Asian Human History) - Chinese class



Through a hundred years of Taiwanese film history, we want to examine the relationship between Northeast Asian society and popular culture, and understand the flow of China film industry.

COMMERCE

2 Courses



Global Trade Policy



This course offers accessible coverage of the key questions in international trade and trade policy. Why do countries trade? What are the gains from trade? Why do countries choose trade protectionism and export controls in the time of COVID-19? Foundational international trade theories are introduced, and undergraduate students will apply their understanding on trade theories into contemporary trade policies to examine how and why countries implement such policies and what the economic outcomes are. This course aims to provide students with economic framework to better understand the current issues in international trade policy.

International Marketing



This unit aims to introduce key marketing concepts and their application to modern business. Understanding the role of marketing will aid understanding the interconnections it has with other business disciplines, as well as providing a strong philosophical foundation for further studies in marketing. In addition, this unit provides students with the opportunity to develop generic skills. The unit provides students with a series of learning opportunities designed to explore basic business and Marketing concepts from a variety of viewpoints including theoretical and applied perspectives.



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