Module Code	0085040010
Course Subject Name	Introduction to Economics (Microeconomics, Macroeconomics)
Subject Area	
Course Subject Classification	Humanities and Social Sciences Core Subject
Course Year	2010
Course Term	Autumn Semester
Taught Day	Wednesday, 2nd Period (10:30–12:00)
Course Requirements	
credit	1.5
Course Tutor	Md. Sharif Hossain (Ph.D),Yanhong Zhang
Schools	School of Engineering and Agriculture
Taught Year	First year
Campus	Ito campus
Course Objectives	This course is designed for the undergraduate level of students of G30 program under Kyushu University. Economics studies how scarce resources can be and should be utilized to meet unlimited human wants. This introductory course to economics is divided into two parts: microeconomics and macroeconomics. Specifically, the microeconomics part addresses how markets coordinate the choices of individual consumers and firms by focusing on four topics (demand-supply analysis, consumer theory, and producer theory and market failure). Overall, this course surveys basic mainstream economic theory, and illustrates the theory with applications in reality. Students are expected to be familiar with basic economic theory and command simple analytical tools when the course is over.
Course Outline (specific)	Outline of the Subject **Introduction:** Meaning of Economics? Why we study Economics, Types of Economics, Distinguish Between Microeconomics and Macroeconomics, Economic Planning, Needs for Economic Planning, Requirements for Formulation and Success of a Plan, Planning Model and Usefulness of Planning Models. **How Markets Work**: Demand Analysis, Supply Analysis, Elasticity, Efficiency and Equity, Market in Action, Application of Numerical Problems. **Consumer Theory** : Utility and Utility Function, Optimization of a Utility Function, Price Line, MRS, Indifference Curve, Theory of Firm, Optimization the Value of Firm, Application of Numerical Problems. **Producer Theory:** Organizing production , Output and costs, Output Maximization, Cost Minimization Perfect Competition , Monopoly, Monopolistic Competition and Oligopoly, Profit Maximization, Application of Numerical Problems. Topics for Each Session Week 1: Introduction Week 2: Demand Analysis Week 3: Supply Analysis Week 4 and 5: Consumer Theory Week 6 and 7: Producer Theory Week 8: Class Test and Mid-Term Exam. The Second Half 1. Measuring macro-economy: economic performance as in gross domestic product (GDP), and cost of living as in consumer price index (CPI) Chapter 23, 24 2. Economy in the long run: 1) Economic growth, saving and investment, unemployment Chapter 25, 26, 28 2) Money supply, inflation, and neutrality Chapter 29, 30 3) Open economy: International trade, investment, and exchange rates Chapter 31, 32
Course Approaches	
Textbook	Principles of Economics, 5th edition, by N. Gregory Mankiw, South-Western, 2009
Reference Books	Microeconomics, by Michael Parkin (Pearson and Addison-Wesley, 2005, Seventh Edition), ISBN 0-321-26312-X.
Study consultation (office hour)	Md. Sharif Hossain (Ph.D) Tel : 092-642-4293,E-mail: sharif@en.kyushu-u.ac.jp Office No. 3211/G30 Faculty Room 3 Office Hours:Monday: 1pm – 5pm,Wednesday: 1pm-5pm, Yanhong Zhang Office: Faculty of Science Building #3, Room 209, Hakozaki campus Email: yhzhang@en.kyushu-u.ac.jp Office Phone: 092-642-
Exams/Results Evaluation Method	First Half:(1) Attendance: 20%,(2) Assignments: 20%,(3) Quizze/Short-Test: 20%,(4) Mid-Term Examination: 40% Second Half:(1) Classroom performance (10%), (2) In-class quizzes (20%), (3) Comprehensive final (70%)
Others	

Module Code	0085040040
Course Subject Name	**Introduction to Psychology**
Subject Area	
Course Subject Classification	Humanities and Social Sciences Core Subject
Course Year	2010
Course Term	Autumn Semester
Taught Day	Wednesday, the 1st period (8.40-10.10)
Course	Elective
credit	2
Course Tutor	Prof. Jan Lauwereyns
Schools	Engineering and Agriculture
Taught Year	The 1st year
Campus	Ito campus, Center Zone 1, 1407 (4th floor)
Course Requirement (Pre-requisite)	There are no prerequisites. The course, however, requires attendance. Attendance will be taken at the beginning of the class, by means of a quiz. These weekly quizzes will also count toward your final grade for the class (see below, under 'Evaluation Methods'). Students who attended fewer than 80% of the classes will be excluded from the exam. If you miss a class, please provide valid documentation to excuse your absence (e.g., medical certificate). If you cannot provide valid documentation, you will be offered an opportunity to make up for the missed class (and quiz) by writing a 500-word critica
Course Outline	The course introduces psychology as a science devoted to human and social issues: an academic and applied discipline that incorporates empirical research from the social sciences, natural sciences, and humanities. Using a wide variety of experiments, observations, and surveys, psychologists attempt to understand the role of mental functions in individual and social behavior, while also exploring the underlying physiological and neural
Study Objectives (general)	This course is designed to teach students the principles and main concepts of psychology as a science. Emphasis will be placed on the ability of critical thinking, and a basic understanding of the methods of empirical research
Study Objectives (specific)	Specific Goals: This course aims to achieve the following with respect to the understanding of psychology as a scientific discipline: A. Students can understand and correctly apply the basic principles of psychology B. Students can identify psychological issues in society C. Students can critically review general reports in the media about psychological issues D. Students can evaluate the soundness of psychological studies
Course Plan	Course Plan: The course consists of two sections. The first section is focused on the approaches and methods of psychology. The second section is focused on the basic functions of psychology, from perception to emotion, including social processes. The students take part in weekly quizzes, write one essay of 1,500-2,500 words, and take part in a final exam (see "Evaluation Methods"). Weekly Schedule: 1. 6 October 2010. Overview 2. 13 October 2010. Psychology: A scientific discipline 3. 20 October 2010. Methods: Experiments; descriptive and inferential statistics 4. 27 October 2010. Methods: Surveys, correlations 5. 10 November 2010. Behavioral analysis and cognitive psychology 6. 17 November 2010. Experimental social psychology (taught by Dr Nakashima) 7. 24 November 2010. Neuropsychology; brain and behavior 8. 1 December 2010. Sensation and perception 9. 8 December 2010. Attention, awareness and consciousness 10. 15 December 2010. Emotion and feeling 11. 22 December 2010. Motivation and control of action 12. 12 January 2011. Learning and memory 13. 19 January 2011. Language, reasoning and decision-making
key words	Psychology, behavioral analysis, cognitive processing, empirical research, basic human functions, social and cultural processes, individual differences, surveys and experiments
Course Approaches	The course tutor provides instruction by means of lectures, supported with PowerPoint presentations. The PowerPoint presentations will be made available to students. Students should take their own notes during the lectures, and study their notes together with the PowerPoint files. Students should attend all lectures, and spend about 2-3 hours studying (i.e., reviewing) the materials of each lecture. If you have trouble understanding your notes or the Powerpoint file, consult your textbook, your fellow students, or your course tutor (during office hours). Make sure to study in a timely fashion (i.e., well in
Textbooks	Douglas A. Bernstein et al. (2008). *Psychology*. 8th Edition. Wadsworth Publishing. ISBN 978-0618874071.
Reference Books	A very valuable tool is the search engine **Pubmed** (type "Pubmed" via google). This search engine is operated by the US National Institutes of Health, and contains easily searchable abstracts of research reports in psychology, neuroscience, and other related disciplines, often with links to freely available
Study consultation (office hour)	Office: Ito Campus, West Zone 2, 846 Office Hours: Thursday 10.00-12.00 Email: j.lauwereyns@bie.is.kyushu-u.ac.jp Phone: 8775
Exams/Results Evaluation Method	1. Weekly quiz (30%). At the beginning of each class, there will be a very brief quiz, consisting of an open-ended question relevant to the materials taught in the previous class. Each quiz will be weighted equally. The total of the quizzes will count toward 30% of your grade for this class. If you miss a class (and therefore a quiz) for a valid reason (e.g., documented with a medical certificate), the quiz for that class will be waived. If you cannot provide valid documentation, you will be asked to write a make-up essay of 500 words on reading materials provided by the course tutor 2. Essay (30%). You will be asked to write an essay of between 1,500 and 2,500 words on a psychological topic of your choosing. Specifically, you will be asked to find an interesting "issue" reported in the media, and then to evaluate the way in which the issue is portrayed (e.g., by indicating errors in reasoning, or lack of evidence, and by suggesting an empirical investigation that could address the issue in a methodologically sound way). The deadline 3. Final examination (40%). The final examination will consist of a list of six open-ended questions, from which you will be asked to choose four. For each of your chosen questions, you will then be asked to write a short text in response (e.g., 100 words). The exam will take place during the last class, on **2 February 2011**.
Others	n/a

Module Code	0085020001
Course Subject Name	Core Seminar
Subject Area	
Course Subject Classification	Core Seminar
Course Year	2010
Course Term	Fall
Taught Day	Monday
Course Requirements	
credit	2
Course Tutor	Goshi Sato
Schools	School of Agriculture
Taught Year	The 1st year
Campus	Ito campus
Course Requirement (Pre-requisite)	
Course Outline	Students learn basics in academic writing and presentation through writing and oral presentation tasks in class and homework assignments. Students will be exposed to visible example of what we eat and how these food become available to households.
Study Objectives (general)	Overall Objective: This course is designed to let students be aware of what we eat support the world agriculture. (世界の農業を支える世界の食)
Study Objectives (specific)	Specific Goals: A. Students can improve overall communication skills B. Student learn how to conduct hearing during their fieldwork C. Students can present their findings in front of audience D. Students can learn the reality of dietary situation in Japan. F. Students understand Japanese dietary situation through learning how to cook Japanese and also foreign food with local people G. Students can understand how soya source, the basic flavor of Japan/Asia, is being made.
Course Plan	Course Plan: 1. On the 7th November, they have fieldwork to learn how to cook Japanese and foreign food with local people 2. They have an assignment to collect the dietary situation samples of their own country and present their results 3. On the 19th December, they visit a soya source maker's place to learn how soya source is made Tentative Weekly Schedule: 1. 10/18. Introduction. Ice Break sessions 2. 10/25. Eat 'bento' made by local farmers' wives 3. 11/1 Interviewing the local farmers' wives 4. 5.6. 11/7. (Sun) The first fieldwork: Cooking exchange with local people 7. 11/8. Reflection on the event of 11/7 8. 11/15. Lecture on the state of Japanese dietary today: assignment given to students 9. 11/29. Oral presentation part 1 10. 12/6. Oral presentation part 2 11. 12/13. Oral presentation part 3 12.13.14 12/19(Sun). The second fieldwork: Making of soya source 15.12/20 Final lecture: reflection on the event on 11/19 and overall reflection of the seminar
key words	food education
Course Approaches	
Textbooks	Textbook: not specified
Reference Books	
Study consultation (office hour)	Office: Center Zone I Room 1409 Office Hours: 16.30-17.30 (Hisako Nomura) Email: goshi@agr.kyushu-u.ac.jp or hnomura@agr.kyushu-u.ac.jp Phone: Sato x092-642-2961 (or 99-2961 from Ito campus) Nomurax092-642-4348 (or 99-4348 from Ito campus)
Exams/Results Evaluation Method	1. Oral presentation 2. Attendance of Fieldwork I 3. Attendance of Fieldwork II
Others	

Module Code	0085600001
Course Subject Name	Calculus with Exercises A
Subject Area	
Course Subject Classification	Fundamental Subject for Natural Science Field
Course Year	2010
Course Term	Autumn Semester
Taught Day	Thursday, 4th Period (14:50–16:20)
Course Requirements	Mathematics knowledge of high school level or the equivalent
credit	1.5
Course Tutor	Bidyut Baran Saha
Schools	Faculty of Engineering
Taught Year	First year
Campus	Ito campus
Course Outline	The course is intended as a one term course in calculus for students who have studied Mathematics in high school. It is intended to be self contained, so that it is possible to follow it without any background in calculus. It makes use of some tools that are relatively new, which are intended to make the subject easier to learn and more fun. However it was not our intention to make this course merely an easy calculus course, covering all the same material as the traditional course. Students will learn the basics of calculus through class lectures, class exercises, homeworks, and examinations.
Study Objectives (general)	This course is designed to teach students the basics of calculus, including the definition of the derivative and the integral, up to the fundamental theorem of calculus. This course is a prerequisite to Calculus with Exercises B.
Study Objectives (specific)	In this course we will cover the following topics: 1. Course overview and preliminaries 2. Functions 3. Definition of a limit, calculating limits using limit laws, continuous functions 4. Definition of differentiation, rules, approximations 5. Calculation of high-order derivatives and the Taylor expansion 6. Definition of definite integrals and the fundamental theorem of calculus
Course Plan	We will follow the textbook very closely Chapter 1: Preliminaries Chapter 2: Limits and Continuity Chapter 3: Differentiation Chapter 4: Applications of Differentiation Chapter 5: Integration Parts of Chapter 11: Infinite Sequence and Series (Very) Tentative weekly schedule；sections from the textbook 10/7 Guidance 10/14 § 1.1– § 1.4 10/21 § 1.5– § 1.6 10/28 § 2.1– § 2.4 11/4 § 2.5– § 2.7 11/18 § 3.1– § 3.4 11/25 § 3.5– § 3.6 12/2 No Class (Overseas Trip) 12/9 Midterm exam; § 4.1 12/16 § 4.2– § 4.4 1/6 § 4.5– § 4.8 1/13 No Class (Overseas trip) 1/20 § 5.1– § 5.3 1/27 § 5.4– § 5.6 2/3 § 11.1– § 11.2 2/10 § 11.3, § 11.4, § 11.6 2/13 Final Exam
Course Approaches	How to study for this course? Throughout the course there will be assignments; although it is not necessary to complete the assignments to pass the course. If you are able to complete the assignments, you should have no problems in passing the examinations.
Textbook	Thomas' Calculus 11th Edition Media Upgrade
Reference Books	None
Study consultation (office hour)	Office: Building West 4, Room 626-1 Office Hours: Preferred by appointment. Email: saha@mech.kyushu-u.ac.jp
Exams/Results Evaluation Method	Attendent 20% Assingments 20% Midterm examination 20% Final examination 40%
Others	

Module Code	0085600001
Course Subject Name	Calculus with Exercises A
Subject Area	
Course Subject Classification	Basic Science Core Subject
Course Year	2010
Course Term	Autumn Semester
Taught Day	Thursday, 4th Period (14:50–16:20)
Course Requirements	None
credit	1.5
Course Tutor	Craig Pastro
Schools	Faculty of Agriculture
Taught Year	First year
Campus	Ito campus
Course Outline	Student will learn the basics of calculus through class lectures, class exercises, homeworks, and examinations.
Study Objectives (general)	This course is designed to teach students the basics of calculus, including the definition of the derivative and the integral, up to the fundamental theorem of calculus. This course is a prerequisite for Calculus with Exercises B.
Study Objectives (specific)	In this course we will cover the following topics. 1. Preliminaries 2. Functions 3. Definition of a limit, calculating limits using limit laws, continuous functions 4. Definition of differentiation, rules, approximations 5. Calculation of high-order derivatives and the Taylor expansion 6. Definition of definite integrals and the fundamental theorem of calculus
Course Plan	We will follow the textbook very closely (except perhaps at Chapters 7 and 11) Chapter 1: Preliminaries Chapter 2: Limits and Continuity Chapter 3: Differentiation Chapter 4: Applications of Differentiation Chapter 5: Integration Parts of Chapter 7: Transcendental Functions and parts of Chapter 11: Infinite Sequences and Series (Very) Tentative weekly schedule; sections from the textbook 10/7 § 1.1– § 1.5 10/14 § 1.6, § 2.1- § 2.2 10/21 § 2.3– § 2.5 10/28 § 2.6– § 2.7 11/4 § 3.1– § 3.4 11/11 § 3.5– § 3.6 11/18 § 3.7– § 3.8; review 11/25 No class 12/2 Midterm exam; § 4.1 12/9 § 4.2– § 4.4 12/16 § 4.5– § 4.8 1/6 § 5.1– § 5.2 1/13 § 5.3– § 5.4 1/20 § 5.5– § 5.6 1/27 Exponential and logarithms; their derivatives and integrals; sequences and series 2/3 Convergence; Taylor series
Course Approaches	How to study for this course? Throughout the course there will be assignments; although it is not necessary to complete the assignments to pass the course, they are an invaluable study resource. If you are able to complete the assignments, you should have no problems in passing the examinations.
Textbook	Thomas' Calculus 11th Edition Media Upgrade
Reference Books	None
Study consultation (office hour)	Office: Department of Mathematics, Room 306 (on the second floor) Office Hours: Monday 16:30–18:00, Thursday 16:30–18:00, or by appointment. Email: craig@math.kyushu-u.ac.jp (please include "calculus" in the subject)
Exams/Results Evaluation Method	Assignments 20% (your worst mark will be dropped) Midterm examination 30% Final examination 50% I will take the greater of your overall mark and your mark on the final exam.
Webpage	http://www2.math.kyushu-u.ac.jp/~craig/courses/calculus-a.html