

Syllabus
for Study
in Special Program for Foreign Postgraduate Students
in Agriculture, Forestry and Fisheries in Asia, Africa
and the Pan-Pacific Region

Foreign Student Consortium Shikoku

* If time schedule or other items are not specified, ask about them to the lecturer after consulting your advising professor.

(* 開講時期その他の事項が明示されていない場合は、指導教員に相談したうえで授業担当教員に確認すること。)

KAGAWA UNIVERSITY

(香川大学)

Course Subject Title (授業題目)

Introduction of Horticultural Production and Technology

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term-1

Day/Period (時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor) (担当教員名)

Nobuyuki OKUDA・Ryosuke MOCHIOKA

Professor (Affiliation/Research Field) (担当教員所属)

Kagawa University/ Vegetable Horticulture (Nobuyuki OKUDA)

Pomology (Ryosuke Mochioka)

Professor (Telephone) (担当教員電話)

087-891-3073 (Nobuyuki OKUDA)

0879-52-2763 (Ryosuke Mochioka)

Professor (E-Mail) (担当教員)

okuda@ag.kagawa-u.ac.jp

mochioka@ag.kagawa-u.ac.jp

Keyword for the subject (キーワード)

horticulture, vegetable, fruit, Japan, protected cultivation

Content and Objectives (授業テーマと目的)

Introduction to vegetable and fruit cultivation techniques and main cultivars in Japan.

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title(授業題目)

Advanced Vegetable Crop Production

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Nobuyuki OKUDA・Tomohiro YANAGI

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Vegetable Horticulture (Nobuyuki OKUDA)

Science and Technology in Protected Horticulture(Tomohiro YANAGI)

Professor (Telephone)(担当教員電話)

087-891-3073 (Nobuyuki OKUDA)

087-891-3069(Tomohiro YANAGI)

Professor (E-Mail)(担当教員)

okuda@ag.kagawa-u.ac.jp

yanagi@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

development, growth, production, vegetable crop, strawberry

Content and Objectives(授業テーマと目的)

Introduction to vegetable crop production in Japan, and explanation of growth and development of vegetable crop.

Teaching Materials(教科書・参考書)

Computer projector / Printed synopsis

Evaluation of Results(成績評価の方法)

Submitted report at the completion of the course

Course Subject Title(授業題目)

Postharvest Horticulture

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Yusuke KOSUGI

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Postharvest Horticulture

Professor (Telephone)(担当教員電話)

087-891-3076

Professor (E-Mail)(担当教員)

ykosugi@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Ethylene, gene expression, senescence, vase (shelf) life

Content and Objectives(授業テーマと目的)

Physiological and molecular aspects of postharvest changes in ornamentals and vegetables

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitted report at the completion of the course

Course Subject Title(授業題目)

Postharvest physiology and technology in horticulture

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Fall term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Kazuhide KAWADA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Postharvest Horticulture

Professor (Telephone)(担当教員電話)

087-891-3067

Professor (E-Mail)(担当教員)

kawada@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Freshness, Quality, Storage, Distribution, Horticultural Crops

Content and Objectives(授業テーマと目的)

Postharvest technologies on storage and distribution based on the physiological and chemical changes of horticultural crops are introduced and discussed.

Teaching Materials(教科書・参考書)

Computer projector / Printed synopsis

Evaluation of Results(成績評価の方法)

Term paper / reports

Course Subject Title(授業題目)

Fruit production and improvement

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

Thursday/1st

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Ikuo KATAOKA・Kenji BEPPU

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Pomology

Professor (Telephone)(担当教員電話)

087-891-3066(Ikuo KATAOKA)

087-891-3075(Kenji BEPPU)

Professor (E-Mail)(担当教員)

kataoka@ag.kagawa-u.ac.jp

beppuk@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Fruit tree, Resources, Production system, Breeding

Content and Objectives(授業テーマと目的)

Introduction to resources, production system and breeding of fruit crops to understand the outline of fruit production and improvement.

Teaching Materials(教科書・参考書)

Computer projector / Printed synopsis

Evaluation of Results(成績評価の方法)

Evaluate a report submitted for every topic.

Course Subject Title(授業題目)

Crop Ecophysiology

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term-2

Day/Period(時間割)

Tuesdayday/1st

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Masanori TOYOTA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Bioresource Production Science/Plant Resource Production

Professor (Telephone)(担当教員電話)

087-891-3058

Professor (E-Mail)(担当教員)

toyota@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Ecophysiology, Food crop, Developmental morphology, Yield determination

Content and Objectives(授業テーマと目的)

Ecology, physiology and developmental morphology on yield determination of food crops.

Teaching Materials(教科書・参考書)

Evaluation of Results(成績評価の方法)

Reports

Course Subject Title(授業題目)

Animal Nutrition of Horticultural Crop

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Koh-en YAMAUCHI

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Feed Science

Professor (Telephone)(担当教員電話)

087-891-3053

Professor (E-Mail)(担当教員)

yamauchi@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Chicken, Feeding Experiment, Intestine, Histology, Electron Microscope

Content and Objectives(授業テーマと目的)

Mechanism of digestion and absorption of feed in livestock is introduced. Class will be further discuss about anatomical characterization of digestive tracts and molecular basis of animal nutrition.

Teaching Materials(教科書・参考書)

Reprints of related research

Evaluation of Results(成績評価の方法)

Report

Course Subject Title (授業題目)

Agricultural, resource and environmental economics, and development project management

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term-1

Day/Period (時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor) (担当教員名)

Hiroshi KAMEYAMA

Professor (Affiliation/Research Field) (担当教員所属)

Kagawa University/ Agricultural and Resource Economics

Professor (Telephone) (担当教員電話)

087-891-3054

Professor (E-Mail) (担当教員)

kameyama@ag.kagawa-u.ac.jp

Keyword for the subject (キーワード)

Farm management, resource management, policy, marketing, environmental valuation,

Content and Objectives (授業テーマと目的)

Introduction to agricultural resource and environmental economics, quantitative analysis, and participatory project management

Teaching Materials (教科書・参考書)

Printed materials for micro economics and case method teaching.

Evaluation of Results (成績評価の方法)

Submitted paper and course participation

Course Subject Title(授業題目)

Food taste and texture

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term-2

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Shoichi GOHTANI

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Food Physics

Professor (Telephone)(担当教員電話)

087-891-3103

Professor (E-Mail)(担当教員)

gohtani@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Food, Taste, Texture, Chemical taste, Physical taste

Content and Objectives(授業テーマと目的)

Introduction to taste and texture, and explanation of chemical taste and physical taste.

Teaching Materials(教科書・参考書)

Computer projector and Printed synopsis

Evaluation of Results(成績評価の方法)

Written test

Course Subject Title (授業題目)

Food Protein Functionalities

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term-1

Day/Period (時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor) (担当教員名)

Masahiro OGAWA

Professor (Affiliation/Research Field) (担当教員所属)

Kagawa University/ Food Protein Functionalities

Professor (Telephone) (担当教員電話)

087-891-3098

Professor (E-Mail) (担当教員)

ogawa@ag.kagawa-u.ac.jp

Keyword for the subject (キーワード)

Meat, Seafood, Proteases and their inhibitors, Structure

Content and Objectives (授業テーマと目的)

Comprehending the functions of proteins and understanding the current trends in the application of protein functionalities to food products

Teaching Materials (教科書・参考書)

Computer projector and Printed synopsis

Evaluation of Results (成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title (授業題目)

Development of Food Functionalities

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term-1

Day/Period (時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor) (担当教員名)

Shigeru HAYAKAWA

Professor (Affiliation/Research Field) (担当教員所属)

Kagawa University/ Food Protein Functionalities

Professor (Telephone) (担当教員電話)

087-891-3099

Professor (E-Mail) (担当教員)

hayakawa@ag.kagawa-u.ac.jp

Keyword for the subject (キーワード)

protein, structures, animal products, rare sugars, antimicrobial activity

Content and Objectives (授業テーマと目的)

Conversion of potential food protein resources into valuable food products and development of food functionalities, and food processing using recent biochemical techniques are reviewed.

Teaching Materials (教科書・参考書)

Computer projector and Printed synopsis

Evaluation of Results (成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title(授業題目)

Molecular nutrition and flavor chemistry of functional foods

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Haruhiko SAKURABA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Food Chemistry

Professor (Telephone)(担当教員電話)

087-891-3104

Professor (E-Mail)(担当教員)

tamura@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

functional foods, biological activity, flavor, color, anti-cancer activity

Content and Objectives(授業テーマと目的)

Introduction to functionalities of food ingredients and molecular mechanisms of the functions and the nutraceutical benefits

Teaching Materials(教科書・参考書)

Computer projector, Printed synopsis or written on blackboard.

Evaluation of Results(成績評価の方法)

Written test or submission of a report at the completion of the course

ASADA・WATANABE・TAKATA・MORIMOTO(麻田・渡邊・高田・森本)

Course Subject Title(授業題目)

Applied Enzymology

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Fall term-2

Day/Period(時間割)

Intensive course in the fall term(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Yasuhiko ASADA・Akira WATANABE・Goro TAKATA・Kenji MORIMOTO

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Applied Enzymology

Professor (Telephone)(担当教員電話)

087-891-3112(Yasuhiko Asada)

087-891-3121(Akira Watanabe)

087-891-3106(Goro Takata)

087-891-3292(Kenji Morimoto)

Professor (E-Mail)(担当教員)

asaday@ag.kagawa-u.ac.jp

akiraw@ag.kagawa-u.ac.jp

goro@ag.kagawa-u.ac.jp

morimoto@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Bacteria, Fungi, Enzymes, Sugars, Genetics

Content and Objectives(授業テーマと目的)

Study on basic and application of enzymology, and understanding of recent development on the utilization of microbes and enzymes such as rare sugar production.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitted paper

Course Subject Title (授業題目)

Advanced Biophysical Chemistry

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

Fall term-1

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor) (担当教員名)

Kazuhiro FUKADA

Professor (Affiliation/Research Field) (担当教員所属)

Kagawa University/ Colloid Science

Professor (Telephone) (担当教員電話)

087-891-3087

Professor (E-Mail) (担当教員)

fukada@ag.kagawa-u.ac.jp

Keyword for the subject (キーワード)

physical chemistry, thermodynamics, colloid and surface science, amphiphilic molecules

Content and Objectives (授業テーマと目的)

Introduction and exercise on chemical thermodynamics and colloid science focusing on biologically important phenomena

Teaching Materials (教科書・参考書)

Reference book (Elements of Physical Chemistry, 3rd ed, P. Atkins, Oxford University Press)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Written test

Course Subject Title(授業題目)

Mycotoxins and food safety

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Osamu KAWAMURA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Food Hygiene

Professor (Telephone)(担当教員電話)

087-891-3117

Professor (E-Mail)(担当教員)

kawamura@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Mycotoxins, Food contaminations, Toxicology, Risk assessment

Content and Objectives(授業テーマと目的)

Mycotoxins, one of health risk factors in the food chain, their mechanisms of food contamination and health risk (toxicity), and these risk assessment and management for controlling are discussed.

Teaching Materials(教科書・参考書)

Undecided

Evaluation of Results(成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title(授業題目)

Bioorganic chemistry and plant biochemistry

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term-2

Day/Period(時間割)

Intensive course in the fall term(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Yasuhiro KAWANAMI・Hisashi Kato

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Chemistry of Functional Molecules(Yasuhiro Kawanami)

Kagawa University/ Plant Biochemistry (Hisashi Kato)

Professor (Telephone)(担当教員電話)

087-891-3088 (Yasuhiro Kawanami)

087-891-3086 (Hisashi Kato)

Professor (E-Mail)(担当教員)

kawanami@ag.kagawa-u.ac.jp

hisashi@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Allelopathy, Bioactive substance, Organic chemistry, Carbohydrate, Plant biochemistry

Content and Objectives(授業テーマと目的)

Introduction to the basic knowledge of allelopathy, organic chemistry of carbohydrate, and their functions

Teaching Materials(教科書・参考書)

Computer projector / Printed synopsis

Evaluation of Results(成績評価の方法)

Submitted paper (report) during and end of the course.

Course Subject Title(授業題目)

Plant Nutrition

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Shigeyuki TAJIMA

Mika NOMURA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Molecular Plant Nutrition

Professor (Telephone)(担当教員電話)

087-891-3129 (Shigeyuki Tajima)

087-891-3135(Mika Nomura)

Professor (E-Mail)(担当教員)

tajima@ag.kagawa-u.ac.j

nomura@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Plant Nutrition, Nitrogen fixation, Plant-microbe interaction, Rhizobia

Content and Objectives(授業テーマと目的)

This class is directed to understand basic knowledge and advanced information of plant nutrition.

Current topics and research topics in plant nutrition will be introduced.

Teaching Materials(教科書・参考書)

All materials will be supplied as printed synopsis and will be presented using computer projector.

Evaluation of Results(成績評価の方法)

Evaluation will be done by written test or checking student reports

Course Subject Title(授業題目)

Secondary Phytoreactions

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Masayuki FUJITA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Plant Stress Responses

Professor (Telephone)(担当教員電話)

087-891-3133

Professor (E-Mail)(担当教員)

fujita@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

P-450, GST, glyoxalase, glutathione, furanosesquiterpene

Content and Objectives(授業テーマと目的)

Introduction of plant enzymes and components responsive to abnormal conditions.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Written test

Course Subject Title(授業題目)

Advanced organic chemistry in applied bioresource science

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Takeshi KATAYAMA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Biomass Chemistry

Professor (Telephone)(担当教員電話)

087-891-3083

Professor (E-Mail)(担当教員)

katayama@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Stereochemistry, Organic reaction mechanism, biomolecule, biological pathway, phenylpropanoids

Content and Objectives(授業テーマと目的)

General organic reaction mechanism and the stereochemistry of biomolecules such as mono-, di-, and polysaccharides, and phenylpropanoids and lignin polymers are explained. Then, organic chemistry of the biological pathways that is important in the field of applied bioresource science is explained.

Teaching Materials(教科書・参考書)

Printed synopsis/ Computer projector

Evaluation of Results(成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title(授業題目)

Advanced Wood Biomass Chemistry and Tree Biochemistry

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term-1

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Takeshi KATAYAMA・Toshisada SUZUKI

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Biomass Chemistry

Professor (Telephone)(担当教員電話)

087-891-3083 (Takeshi KATAYAMA)

087-891-3089 (Toshisada SUZUKI)

Professor (E-Mail)(担当教員)

katayama@ag.kagawa-u.ac.jp

t-suzuki@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Chemical structure and biosynthesis, Lignin, Lignan, Suberin, Woody biomass utilization

Content and Objectives(授業テーマと目的)

Effective utilization of biomass is important for human beings to control global warming and to achieve sustainable development. To understand wood biomass science (especially chemistry and biochemistry) and utilization, not only structure, reaction, and biosynthesis of chemical constituents (cell-wall polymers and extractives) in wood and bark, but also recent examples of the woody biomass utilization are explained.

Teaching Materials(教科書・参考書)

Computer projector/OHP/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title (授業題目)

Molecular biology and biochemistry of extremophiles

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term-2

Day/Period (時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor) (担当教員名)

Haruhiko SAKURABA

Professor (Affiliation/Research Field) (担当教員所属)

Kagawa University/ Applied Enzymology

Professor (Telephone) (担当教員電話)

087-891-3078

Professor (E-Mail) (担当教員)

sakuraba@ag.kagawa-u.ac.jp

Keyword for the subject (キーワード)

hyperthermophiles, crystal structure, heat stable enzyme, PyMol

Content and Objectives (授業テーマと目的)

The structural feature of hyperthermophilic enzymes. (This class is intended to demonstrate how to use capable molecular viewers (PyMol) for protein structure.)

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Students are required to bring note-type PC, if necessary.

Evaluation of Results (成績評価の方法)

Submitted paper (report) at the completion of the course

Course Subject Title(授業題目)

Material cycles and biological processes in the shallow coastal water environment

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Kazuhiko ICHIMI ・ Kuninao TADA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Coastal Marine Sciences(Kazuhiko ICHIMI)

Biological and Chemical Oceanography(Kuninao TADA)

Professor (Telephone)(担当教員電話)

087-891-3142(Kazuhiko ICHIMI)

087-891-3148(Kuninao TADA)

Professor (E-Mail)(担当教員)

ichimi@ag.kagawa-u.ac.jp

tada@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Biophilic elements, Coastal ecosystem, Primary production, Nutrients, Tidal flat

Content and Objectives(授業テーマと目的)

Introduction of material cycles and biological processes in the shallow coastal water environment, including tidal flats. Particularly, focus on the lower trophic level in marine ecosystem.

Teaching Materials(教科書・参考書)

Computer projector or Printed synopsis

Evaluation of Results(成績評価の方法)

Written examination or Submitted paper (report)

Course Subject Title(授業題目)

Limnology

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Spring term

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Yoshihiro YAMADA

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/ Limnology

Professor (Telephone)(担当教員電話)

087-891-3150

Professor (E-Mail)(担当教員)

yamaday@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Lake, River, Carbon, Nitrogen, Isotope

Content and Objectives(授業テーマと目的)

Introduction to the cycle of carbon, nitrogen, phosphorus and some major elements in waters.

Study on the physical, chemical and biological process in the lake and river.

Teaching Materials(教科書・参考書)

Computer projector or Printed synopsis

Evaluation of Results(成績評価の方法)

Written test or Submitted report at the completion of the course.

Course Subject Title(授業題目)

Behavior of biophilic elements in the marine environment.

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Kuninao TADA ・ Kazuhiko ICHIMI

Professor (Affiliation/Research Field)(担当教員所属)

Kagawa University/Biological and Chemical Oceanography(Kuninao TADA)
Coastal MarineSciences(Kazuhiko ICHIMI)

Professor (Telephone)(担当教員電話)

087-891-3148(Kuninao TADA)

087-891-3142(Kazuhiko ICHIMI)

Professor (E-Mail)(担当教員)

tada@ag.kagawa-u.ac.jp

ichimi@ag.kagawa-u.ac.jp

Keyword for the subject(キーワード)

Behavior of biophilic elements in the marine environment.

Content and Objectives(授業テーマと目的)

Introduction of material cycles of biophilic elements in the marine environment. Particularly, focus on material cycles under the lower trophic level in marine ecosystem.

Teaching Materials(教科書・参考書)

Computer projector or Printed synopsis

Evaluation of Results(成績評価の方法)

Written examination or Submitted paper (report)

EHIME UNIVERSITY

(愛媛大学)

Course Subject Title (授業題目)

Genetic diversity of forest trees

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

First half of the spring term

Day/Period (時間割)

Friday/2nd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Ko HARADA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Forest resources biology

Professor (Telephone) (担当教員電話)

089-946-9870

Professor (E-Mail) (担当教員)

kharada@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Forest trees, Population genetics, Genetic diversity, Evolution, Genetic Resources

Content and Objective (授業テーマと目的)

Introduction to forest tree population genetics. Learn basics of population genetics and quantitative genetics. Discuss about the application of the methods on tree population conservation and utilization.

Teaching Materials (教科書・参考書)

Principles of Population genetis by D. L. Hartle and A. G. Clarke/Sinaur

Evaluation of Results (成績評価の方法)

Paper test

Course Subject Title(授業題目)

Biomass conversion

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Not decided

Day/Period(時間割)

Intensive course. (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yusuke EDASHIGE

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Forest science

Professor (Telephone)(担当教員電話)

089-946-9764

Professor (E-Mail)(担当教員)

yedash@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Biomass, Conversion, Resource, Energy, Chemical Utilization

Content and Objective(授業テーマと目的)

Definition of biomass resources and introduction to chemical or thermal conversion of biomass into energy or chemicals.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting paper after the course

Course Subject Title (授業題目)

Advanced course of forest hydrology

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

Second half of the spring term

Day/Period (時間割)

Friday/1st

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Nobuhiro EBISU

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Forest resources

Professor (Telephone) (担当教員電話)

089-946-9876

Professor (E-Mail) (担当教員)

n-ebisu@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Evapotranspiration, Water cycle, Energy balance, Water balance, Energy fluxes

Content and Objective (授業テーマと目的)

Introduction of forest hydrological cycle, micrometeorology observation techniques and observation data of the experimental sites

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report)

Course Subject Title(授業題目)

Soil fertility and plant production

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

Wednesday/4th

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hideto UENO

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Soil fertility science

Professor (Telephone)(担当教員電話)

089-993-1651

Professor (E-Mail)(担当教員)

uenoh@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Soil, Sustainable agriculture, Cover crop, Organic farming, Environmentally conscious agriculture

Content and Objective(授業テーマと目的)

Introduction to soil fertility and explanation on the systems of cropping and soil management for sustainable agriculture

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis/"The Living Soil"

Evaluation of Results(成績評価の方法)

Paper test, presentation and submitting paper (report) after the course

Course Subject Title(授業題目)

Fruit Physiology

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

Intensive course in the spring term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008.

Professor (Lecturer or Instructor)(担当教員名)

Professor Fusao MIZUTANI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Citriculture

Professor (Telephone)(担当教員電話)

089-993-1632

Professor (E-Mail)(担当教員)

mizutani@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Fruit, Postharvest, Ripening, Storage, Ethylene

Content and Objective(授業テーマと目的)

Physiology of fruit ripening and technology for extending shelf life of fruits.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Paper test

Course Subject Title (授業題目)

Applied molecular genetics

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

First or Second half of the fall term

Day/Period (時間割)

Intensive course in the fall term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Masamichi NISHIGUCHI

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Plant biotechnology, Plant molecular biology and virology

Professor (Telephone) (担当教員電話)

089-946-9816

Professor (E-Mail) (担当教員)

mnishigu@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

DNA, RNA, Genome, Gene silencing, Plant virus, Disease resistance

Content and Objective (授業テーマと目的)

Molecular understanding of various phenomena based on genomes in a wide variety of organisms including crop plants and viruses.

Teaching Materials (教科書・参考書)

Evaluation of Results (成績評価の方法)

Report and presentation

Course Subject Title(授業題目)

Forest resources planning

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

Monday /2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Tatsuo SWEDA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/ Forest resources planning

Professor (Telephone)(担当教員電話)

089-946-9878

Professor (E-Mail)(担当教員)

sweda@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Material resources, Environmental resources, Global warming, Forest depletion

Content and Objective(授業テーマと目的)

Introduction to the roll and management of forests as material and environmental asset of a given locale, region and the globe.

Teaching Materials(教科書・参考書)

Computer projector/OHP, textbook (changes every year)

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Forest ecology

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Second half of the spring term

Day/Period(時間割)

Intensive class in the spring term

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Ikuo NINOMIYA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/ Forest resources biology

Professor (Telephone)(担当教員電話)

089-946-9869

Professor (E-Mail)(担当教員)

mack@dpc.ehime-u.ac.jp

Keyword for the subject(キーワード)

Forest, Ecology, Trees, Ecophysiology, Silviculture

Content and Objective(授業テーマと目的)

To understand structure and function of forest ecosystem and discuss future status of forest

Teaching Materials(教科書・参考書)

Figure table and photo by printed matter and projector.

Evaluation of Results(成績評価の方法)

Paper test in and after the class

Course Subject Title (授業題目)

Postharvest technology of fruit and vegetables

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

First half of the fall term

Day/Period (時間割)

Intensive course in the fall term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Yoshio HIKIDA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Postharvest technology

Professor (Telephone) (担当教員電話)

089-946-9828

Professor (E-Mail) (担当教員)

hikida@ehimegw.dpc.ehime-u.ac.jp

Keyword for the subject (キーワード)

Postharvest technology, Sorting, Packaging, Storage, Fruit and vegetables

Content and Objective (授業テーマと目的)

Introduction to postharvest technology and explanation on mechanism and function in optical sorter, modified atmosphere packaging and low temperature storage.

Teaching Materials (教科書・参考書)

Computer projector

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Water relations in crop physiology

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

Intensive course in the spring term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hiroshi NONAMI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/ Plant biophysics/Biochemistry

Professor (Telephone)(担当教員電話)

089-946-9824

Professor (E-Mail)(担当教員)

nonami@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Water potential, Psychrometer, Turgor, Osmotic pressure, Water stress

Content and Objective(授業テーマと目的)

The goal is to obtain basic knowledge of water potential (i.e., chemical potential of water), mechanisms of osmosis, water permeability of membranes, and measurement techniques of the water status in crop plants.

Teaching Materials(教科書・参考書)

Textbook: Physical Chemistry for the Biosciences by Raymond Chang (2005) University Science Books (ISBN-13: 978-1891389337)

Computer projector

Evaluation of Results (成績評価の方法)

Paper test

Course Subject Title(授業題目)

Information network

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Second half of the fall term

Day/Period(時間割)

Thursday/2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Kenji HATOU

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/ Bio-mechanical systems

Professor (Telephone)(担当教員電話)

089-946-9892

Professor (E-Mail)(担当教員)

hatou@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Internet, Network, Security, HP

Content and Objective(授業テーマと目的)

The network on the computer, an idea of the security policy in the scene applied to agriculture and actual operation are learnt. In addition, the information usages such as data bases and HP are learnt.

Teaching Materials(教科書・参考書)

Computer projector/OHP/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Conservation genetics

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Intensive course in the fall term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Motohiro TAKAGI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Conservation genetics

Professor (Telephone)(担当教員電話)

0895-82-1025

Professor (E-Mail)(担当教員)

takagi@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Conservation genetics, Genetic variability, Wild population, DNA marker

Content and Objective(授業テーマと目的)

Introduction to conservation genetics and explanation of genetic variability management.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the cours

Course Subject Title(授業題目)

Fish reproductive physiology

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

* This lecture will do in South Ehime Fisheries Research Center (Ainanchou). Consult your advising professor before initiating contact.

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Takeshi MIURA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Fish reproductive physiology

Professor (Telephone)(担当教員電話)

0895-82-1028

Professor (E-Mail)(担当教員)

miutake@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Spermatogenesis, Oogenesis, Sex differentiation, Fertilization, Molecular biology, Endocrinology

Content and Objective(授業テーマと目的)

The aim of this lecture is to understand the molecular control mechanisms of fish reproduction; sex differentiation, spermatogenesis, oogenesis and fertilization.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Economics of sustainable agriculture

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture, exercise and training

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

First half of the spring term

Day/Period (時間割)

Tuesday/2nd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Bai HU

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Agricultural economics

Professor (Telephone) (担当教員電話)

089-946-9832

Professor (E-Mail) (担当教員)

richardh@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Sustainable farming, Productivity, Profitability, Agricultural economics, Organic farming

Content and Objective (授業テーマと目的)

Provide systematic information and training on the profitability and conditions of sustainable farming, with a view of comparison with traditional agriculture.

Teaching Materials (教科書・参考書)

Hu Bai, Economic analysis of sustainable agriculture, NORINTOKEI KYOKAI Pub, 2007.

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

World agricultural and forestry system

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Second half of the fall term,

Day/Period(時間割)

Tuesday/1st

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hosokawa TAKAO

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Resources and environmental policy

Professor (Telephone)(担当教員電話)

089-946-9839

Professor (E-Mail)(担当教員)

Keyword for the subject(キーワード)

Agricultural system, Agricultural policy, Resources management

Content and Objective(授業テーマと目的)

World agricultural system, management and policy

Teaching Materials(教科書・参考書)

Hosokawa Takao and others"Thinking on Food Resources Problems Kouyoushobou/2005

Evaluation of Results(成績評価の方法)

Report

Course Subject Title(授業題目)

Foreign forestry

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Second half of the fall term

Day/Period(時間割)

Tuesday/3rd and 4th

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Taro TERASHITA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Forest education

Professor (Telephone)(担当教員電話)

089-946-9926

Professor (E-Mail)(担当教員)

tarotera@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Foreign forestry, Forest management, Forest ownership, Forest enterprise

Content and Objective(授業テーマと目的)

Overview the framework of forestry, in the sense of the interaction between humanbeing and forest in each country in defferent way.

Teaching Materials(教科書・参考書)

White board

Evaluation of Results(成績評価の方法)

Submitting paper after the course

Course Subject Title(授業題目)

Agricultural land management

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Thursday/2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Atsushi Matsuoka

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/

Professor (Telephone)(担当教員電話)

089-946-9833

Professor (E-Mail)(担当教員)

atsushim@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Agricultural land, Regional resources, Consolidation of land, Zoning, Agricultural public corporation

Content and Objective(授業テーマと目的)

Explanation on role of agricultural land as a regional resource and method to conserve agricultural land properly from a viewpoint of social science

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Regional policy

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

First half of the fall semester

Day/Period (時間割)

Thursday/1st

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Michiru OKUMA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Regional policy

Professor (Telephone) (担当教員電話)

089-946-9838

Professor (E-Mail) (担当教員)

michi@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Regional policy, Agricultural policy, Central government, Local autonomy

Content and Objective (授業テーマと目的)

This course aims to study appropriate ways of forming regional and agricultural policies based on real needs of regions, while paying attention to the relationship between regional policies and national policies. Through such exercise, preferable regional policies will be discussed.

Teaching Materials (教科書・参考書)

Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper after the course

Course Subject Title (授業題目)

Agricultural marketing

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Second half of the spring term

Day/Period (時間割)

Friday/2nd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Akira NAKAYASU

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Food system

Professor (Telephone) (担当教員電話)

089-946-9836

Professor (E-Mail) (担当教員)

nakayasu@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Marketing, Agricultural economics, Agribusiness

Content and Objective (授業テーマと目的)

Explanation on agricultural marketing system in Japan and method to conserve farm products marketing

Teaching Materials (教科書・参考書)

Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper after the course

Course Subject Title(授業題目)

Comparative study on forest policy

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall

Day/Period(時間割)

Intensive course in spring term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Ikuo OTA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/International forest policy

Professor (Telephone)(担当教員電話)

089-946-9997

Professor (E-Mail)(担当教員)

ikuota@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Forestry, Forest production, Plantation, Sustainable forest management, Forest certification

Content and Objective(授業テーマと目的)

Introduction to Japanese forestry and international forest policy issues

Teaching Materials(教科書・参考書)

Evaluation of Results(成績評価の方法)

Paper test and report

Course Subject Title(授業題目)

Survey of world maritime history

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

Intensive course in the fall term (Contact to the lecturer to confirm the availability of the course)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Katuya OSOZAWA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Survey of livelihood in maritime world

Professor (Telephone)(担当教員電話)

089-946-9873

Professor (E-Mail)(担当教員)

ososago5503@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Comparative study of various regions from the view point of maritime history. Considering the change of human-related phenomena in the maritime world and the role of the sea in human history, we will make a comparative maritime study, particularly of the Southeast Asian maritime world, the Mediterranean Sea world and the Seto Inland Sea world in Japan.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Paper test

Course Subject Title(授業題目)

Social management system of Coastal zone

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

*1

Class Work Type(授業種別)

Exercise

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Not decided. (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Naruhito TAKENOUCHI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/South Ehime Fisheries Research Center

Professor (Telephone)(担当教員電話)

089-946-9835

Professor (E-Mail)(担当教員)

naruhito@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Coast, Fisheries, Resources, Wise use, Management

Content and Objective(授業テーマと目的)

[Purpose] The goal is to obtain basic knowledge of use and issue of coastal zone

[Target level of achievement] Actual of costal zone, Problem and cause, Construct of management system

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Chemistry of wood products

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Wednesday/2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Kazutaka ITOH

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Plant chemistry

Professor (Telephone)(担当教員電話)

089-946-9866

Professor (E-Mail)(担当教員)

itoh@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Wood extractives, Biomass, Terpenoids, Phenolic substances, Chemotaxonomy

Content and Objective(授業テーマと目的)

Chemical characteristics of wood extractives as biomass resources are studied

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Microbial gene information and expression

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Reading circle/Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Thursday/1st

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yoshimi KAKINUMA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Microbial molecular physiology

Professor (Telephone)(担当教員電話)

089-946-9859

Professor (E-Mail)(担当教員)

ykaki@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Central dogma, Gene, Transcription, Translation, Regulation

Content and Objective(授業テーマと目的)

Introduction to the regulation of gene expression in microorganisms.

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Paper test (each time)

Course Subject Title (授業題目)

Biotechnology of forest resources

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

First half of the spring term

Day/Period (時間割)

Wednesday/2nd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Sanro TACHIBANA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Chemistry and biotechnology for utilization of forest resources

Professor (Telephone) (担当教員電話)

089-946-9864

Professor (E-Mail) (担当教員)

tatibana@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Biomass, Wood constituents, Biologically active compounds from woods, Microbial and enzymatical conversion. Production of useful compounds by tissue cultures of woody plants

Content and Objective (授業テーマと目的)

[Theme] utilization of forest resources by biotechnology [Purpose] The goal is obtaine basic knowledge on wood constituents, on production of useful compounds by microbial and enzymatical conversion as well as tissue cultures of woody plants.

Teaching Materials (教科書・参考書)

Computer projecto/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Cell biology

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Second half of the fall term

Day/Period (時間割)

Thursday/1st

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Mitsuru AKITA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Cell biology

Professor (Telephone) (担当教員電話)

089-946-9825

Professor (E-Mail) (担当教員)

akita@ehime-u.ac.jp

Keyword for the subject (キーワード)

Protein targeting, Organelle, Molecular chaperone, Post-translational modification

Content and Objective (授業テーマと目的)

Introduction to protein targeting to organelles and other post-translational modifications.

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper after the course

Course Subject Title (授業題目)

Cellular regulation technology

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

First half of the spring term

Day/Period (時間割)

Tuesday/1st

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Takuya SUGAHARA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Animal cell technology

Professor (Telephone) (担当教員電話)

089-946-9863

Professor (E-Mail) (担当教員)

mars95@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Animal cell culture, Functional food, Immuology

Content and Objective (授業テーマと目的)

The focuses of this lecture are a readable introduction to animal cell culture and the application of animal cell culture technique for the evaluation of functional molecules in foods.

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Environmental revegetation

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Second half of the fall term

Day/Period(時間割)

Monday/3rd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Tsugio EZAKI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Environmental revegetation technology

Professor (Telephone)(担当教員電話)

089-946-9874

Professor (E-Mail)(担当教員)

ezaki@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Soil erosion, Desertification, Flood, Global warming, Revegetation,

Content and Objective(授業テーマと目的)

In this class, the damaging mechanism of landslides, desertification, destruction of the face of slopes and coastal dunes in the natural and artificial environment are theoretically analyzed. We will also study prevention and green area conservation for revegetation and cultivation methods.

Teaching Materials(教科書・参考書)

Computer projector//Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Environmental physical Chemistry

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Naoto MATSUE

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Environmental conservation

Professor (Telephone)(担当教員電話)

089-946-9844

Professor (E-Mail)(担当教員)

matsue@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Aqueous solution, Soil constituents, Adsorption, Ion exchange, Quantum chemistry

Content and Objective(授業テーマと目的)

Comprehension of chemical reactions in soil-water interface, and an introduction to quantum chemistry

Teaching Materials(教科書・参考書)

Computer projector and printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Biospheric aspects of atmospheric and hydrological processes

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year or 2nd year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hiroki OUE

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Rural engineering

Professor (Telephone)(担当教員電話) 089-946-9887**Professor (E-Mail)(担当教員)** oue@agr.ehime-u.ac.jp**Keyword for the subject(キーワード)**Hydrological cycle, Radiation balance and heat balance, Vegetation, Evapotranspiration, Photosynthesis, Elevated CO₂ or O₃**Content and Objective(授業テーマと目的)**

[Purpose] The goal is to discuss appropriate human activities both for utilizing natural resources and for conserving environment in future by understanding hydrological cycle and meteorology from a global view point.

[Target level and achievement] (1) Understand hydrological cycle and radiation and heat balance in the biosphere. (2) Understand effects of vegetation on hydrological cycle and radiation and heat balance. (3) Discuss effects of human activities on hydrological cycle and radiation and heat balance. (4) Predict evapotranspiration and photosynthesis under the elevated CO₂ or O₃.

Teaching Materials(教科書・参考書)

Computer projector/OHP/Printed synopsis

Evaluation of Results(成績評価の方法)

Evaluation is made by assignment and presentation (40%) and examination (60%).

Course Subject Title (授業題目)

Environmental hydraulics

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Second half of the spring term

Day/Period (時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Masayuki FUJIHARA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Water resources engineering

Professor (Telephone) (担当教員電話)

089-946-9890

Professor (E-Mail) (担当教員)

Fujihara@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Navier-Stokes equation, Diffusion equation, River water quality model, Water environment

Content and Objective (授業テーマと目的)

Objective: Goal is to develop an understanding of the physical processes controlling the movement of mass, energy, and momentum in the water environment .

Target level of achievement: I. Derivation of Navier-Stokes Equation II. Modeling flow and water quality in rivers

Contents: 1. What is environmental hydraulics ? 2. Continuity equation, 3. Momentum equation, 4. Diffusion equation, 5-7. River water quality model, 8. Final examination

Teaching Materials (教科書・参考書)

Handouts prepared by teacher

Evaluation of Results (成績評価の方法)

Final examination and assignment

Course Subject Title(授業題目)

Chemistry for Improvement of environments

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year or 2nd year

Semester(履修期間)

Not decided

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Teruo HENMI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Resource chemistry

Professor (Telephone)(担当教員電話)

089-946-9843

Professor (E-Mail)(担当教員)

henmi@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Recycling, Zero-emission, Artificial zeolite, New material, Nano-technology

Content and Objective(授業テーマと目的)

To understand an idea of technology for utilization of waste materials, by the means of chemistry

Teaching Materials(教科書・参考書)

A Story of Novel Recycling Resources by T. Henmi

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course)

Course Subject Title (授業題目)

Analytical and environmental chemistry

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Second half of the fall term

Day/Period (時間割)

Friday/2nd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Masahide KAWANO

Professor (Affiliation/Research field) (担当教員所属)

Ehime University /Environmental analytical chemistry

Professor (Telephone) (担当教員電話)

089-946-9907

Professor (E-Mail) (担当教員)

mkawano@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Persistent bioaccumulative toxic chemicals (PBTs), Persistent organic pollutants (POPs), Ultra trace analysis, Long range transport

Content and Objective (授業テーマと目的)

Introduction to ultra trace analysis and environmental behaviour of PBTs in the urban and natural environments

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Paper test and/or submitting paper (report) after the course

Course Subject Title (授業題目)

Environmental toxicology

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Second half of the fall term

Day/Period (時間割)

Friday/2nd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Hisato IWATA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Environmental toxicology

Professor (Telephone) (担当教員電話)

089-927-8172

Professor (E-Mail) (担当教員)

iwatah@ehime-u.ac.jp

Keyword for the subject (キーワード)

Nuclear receptor, Cytochrome P450, Environmental contaminants, Risk assessment

Content and Objective (授業テーマと目的)

Wildlife toxicology and ecological risk assessment

Teaching Materials (教科書・参考書)

Computer projector

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title (授業題目)

Physiological plant pathology

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

Second half of the spring term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Naoto YAMAOKA

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Plant pathology

Professor (Telephone) (担当教員電話)

089-946-9810

Professor (E-Mail) (担当教員)

yamaokan@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Plant, Disease, Host, Parasite, Interaction, Resistant, Susceptible

Content and Objective (授業テーマと目的)

Introduction to plant diseases and explanation of the host-parasite interaction

Teaching Materials (教科書・参考書)

Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Phylogenetic entomology

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Masahiro SAKAI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Entomology

Professor (Telephone)(担当教員電話)

089-946-9927

Professor (E-Mail)(担当教員)

konchudo@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Orders of insects, Taxonomy, Biodiversity, Pests, Coleoptera.

Content and Objective(授業テーマと目的)

Introduction to insect taxonomy in order level and explanation on the species of various pests.

Teaching Materials(教科書・参考書)

Computer projector/OHP/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title (授業題目)

Phylogenetic entomology

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Second half of the fall term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Hiroyuki YOSHITOMI

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Entomology

Professor (Telephone) (担当教員電話)

089-946-9898

Professor (E-Mail) (担当教員)

hymushi@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Taxonomy, Systematics, Phylogeny, Biodiversity, Entomology

Content and Objective (授業テーマと目的)

Understanding of taxonomy and systematics including the knowledge of biodiversity and nomenclature - using the insects (entomology).

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title (授業題目)

Conservation of shallow water ecosystem

Course Subject Code (申請コード)

000000

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year or 2nd year

Semester (履修期間)

First half or second half of the fall term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Ichiro TAKEUCHI

Professor (Affiliation/Research field) (担当教員所属)

Ehime University/Ecosystem conservation & marine ecology

Professor (Telephone) (担当教員電話)

089-946-9899

Professor (E-Mail) (担当教員)

takeuchi@agr.ehime-u.ac.jp

Keyword for the subject (キーワード)

Artificial chemicals, Asian countries, Conservation, Ecosystem, Shallow water

Content and Objective (授業テーマと目的)

Introduction to present status of shallow water ecosystem in Asian countries, with special reference to distributions of the artificial chemicals.

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Terrestrial global productivity

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

First half of the spring term

Day/Period(時間割)

Thursday/2nd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hayato TSUZUKI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Forest mensuration

Professor (Telephone)(担当教員電話)

089-946-9879

Professor (E-Mail)(担当教員)

zzukky@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Terrestrial ecosystem, Forest, Biomass, Physiology, Productivity

Content and Objective(授業テーマと目的)

Introduction to terrestrial ecosystem and explanation on effect of climate and human activity on vegetation

Teaching Materials(教科書・参考書)

Textbook: "Terrestrial Global Productivity" Edited by Roy, J., Saugier, B., and Mooney, H.A. 2000, Academic Press, San Diego. 528pp.

Evaluation of Results(成績評価の方法)

Paper test

Course Subject Title(授業題目)

Environmental molecular biology

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture accompanied with presentation training

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Second half of the fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Satoru SUZUKI

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/Marine molecular ecology

Professor (Telephone)(担当教員電話)

089-927-8552

Professor (E-Mail)(担当教員)

ssuzuki@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

Matter cycling, Dissolved organic matter, Microbial loop, Bacteria

Content and Objective(授業テーマと目的)

Introduction to microbial loop in the ocean and study simulation training on molecular ecology area

Teaching Materials(教科書・参考書)

Visual and printed media

Evaluation of Results(成績評価の方法)

Presentation and defense test

Course Subject Title(授業題目)

Analytical technology of persistent organic pollutants

Course Subject Code(申請コード)

000000

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture accompanied with presentation training

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Second half of the fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2009

Professor (Lecturer or Instructor)(担当教員名)

Katsuhisa HONDA

Professor (Affiliation/Research field)(担当教員所属)

Ehime University/ Environmental science for industry

Professor (Telephone)(担当教員電話)

089-946-9970

Professor (E-Mail)(担当教員)

k_honda@agr.ehime-u.ac.jp

Keyword for the subject(キーワード)

GC-ECD , GC/MS , POPs , PCBs , Dioxins

Content and Objective(授業テーマと目的)

The goal is to obtain advanced knowledges of measurement techniques for persistent organic pollutants such as pesticides,PCBs and dioxins.

Teaching Materials(教科書・参考書)

Textbook:Official method for the measurement of POPs in Japan/Printed synopsis

Evaluation of Results (成績評価の方法)

Recovery test of some certified chemicals(ex:pesticide, PCBs, dioxins)

KOCHI UNIVERSITY

(高知大学)

Course Subject Title(授業題目)

Crop physiology

Course Subject Code(申請コード)

18B00

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Friday/5th

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Akira MIYAZAKI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Crop science

Professor (Telephone)(担当教員電話)

088-864-5123

Professor (E-Mail)(担当教員)

miyazaki@kochi-u.ac.jp

Keyword for the subject(キーワード)

Food crop, Rice, Yield component, Photosynthesis, Nitrogen absorption

Content and Objective(授業テーマと目的)

Physiology and function related with yield production in field crops.

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Environmental stress physiology

Course Subject Code(申請コード)

18B01

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Shinzo YAMANE

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Tropical vegetable crop science

Professor (Telephone)(担当教員電話)

088-864-5206

Professor (E-Mail)(担当教員)

yamane@kochi-u.ac.jp

Keyword for the subject(キーワード)

Vegetable crop, Environmental stress

Content and Objective(授業テーマと目的)

Nature of environmental stress on vegetable crop such as chilling, freeze, heat, drought, excess water, and physiology of plant responses and resistance mechanisms.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced crop science

Course Subject Code(申請コード)

18B02

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Friday/3rd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yoshinori YAMAMOTO

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Crop Science

Professor (Telephone)(担当教員電話)

088-864-5119

Professor (E-Mail)(担当教員)

yamayosi@kochi-u.ac.jp

Keyword for the subject(キーワード)

Crop physiology, Crop ecology, Field crops, Cultivation technique

Content and Objective(授業テーマと目的)

Physiological and ecological aspects of field crops and current cultivation techniques in Japan

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title (授業題目)

Tropical crop science

Course Subject Code (申請コード)

18B03

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

2nd year

Semester (履修期間)

Fall term

Day/Period (時間割)

Friday/3rd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Yoshinori YAMAMOTO

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Crop science

Professor (Telephone) (担当教員電話)

088-864-5119

Professor (E-Mail) (担当教員)

yamayosi@kochi-u.ac.jp

Keyword for the subject (キーワード)

Crop physiology, Crop ecology, Field crops, Cultivation technique

Content and Objective (授業テーマと目的)

Physiological and ecological aspects of field crops and current cultivation techniques in the tropics

Teaching Materials (教科書・参考書)

Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title (授業題目)

Advanced forest tree ecophysiology

Course Subject Code (申請コード)

18B04

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Tomoaki ICHIE

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Tree ecophysiology

Professor (Telephone) (担当教員電話)

088-864-5149

Professor (E-Mail) (担当教員)

ichie@kochi-u.ac.jp

Keyword for the subject (キーワード)

Flowering, Photosynthesis, Environmental stress, Tree ecophysiology

Content and Objective (授業テーマと目的)

Physiological and morphological properties of tropical trees will be described from the view point of environmental adaptation.

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Advanced forest planning

Course Subject Code (申請コード)

18B05

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

Thursday/4th

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Zen'ichiro SHIBAYAMA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Forest operation

Professor (Telephone) (担当教員電話)

088-864-5135

Professor (E-Mail) (担当教員)

shiba@kochi-u.ac.jp

Keyword for the subject (キーワード)

Private forest, Small scale forestry, Japanese cypress (Hinoki), Forest operation, Excellent timber

Content and Objective (授業テーマと目的)

Introduction to small scale forestry and explanation on forest operation and forestry income.

Teaching Materials (教科書・参考書)

OHP/Printed synopsis

Evaluation of Results (成績評価の方法)

Paper test or Submitting paper (report) after the course

Course Subject Title (授業題目)

Rice breeding and cultivars

Course Subject Code (申請コード)

18B06

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

Thursday/5th

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Masayuki MURAI

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/ Plant breeding

Professor (Telephone) (担当教員電話)

088-864-5120

Professor (E-Mail) (担当教員)

muraim@kochi-u.ac.jp

Keyword for the subject (キーワード)

Rice, Plant breeding, Genetics

Content and Objective (授業テーマと目的)

Genetical basis and researches in plant breeding for developing rice cultivars. Seminar style class together with other students.

Teaching Materials (教科書・参考書)

Recent journal papers selected by Professor Murai.

Evaluation of Results (成績評価の方法)

Report and performance in the class.

Course Subject Title (授業題目)

Plant breeding and genetics

Course Subject Code (申請コード)

18B07

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Thursday/5th

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Masayuki MURAI

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Plant breeding

Professor (Telephone) (担当教員電話)

088-864-5120

Professor (E-Mail) (担当教員)

muraim@kochi-u.ac.jp

Keyword for the subject (キーワード)

Plant breeding, Genetics, Crop, Rice

Content and Objective (授業テーマと目的)

Genetical basis and researches in plant breeding for developing rice and other crops. Seminar style class together with other students.

Teaching Materials (教科書・参考書)

Recent journal papers selected by Professor Murai.

Evaluation of Results (成績評価の方法)

Reports and performance in the class.

Course Subject Title (授業題目)

Topographical aspects of forest tree ecology

Course Subject Code (申請コード)

18B08

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Monday/3rd

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Jiro TSUKAMOTO

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Forest Ecology

Professor (Telephone) (担当教員電話)

088-864-5204

Professor (E-Mail) (担当教員)

tukamoto@kochi-u.ac.jp

Keyword for the subject (キーワード)

Forest trees, Distribution, Growth, Topography, Mountain slope

Content and Objective (授業テーマと目的)

Ecology of forest trees is discussed with special reference to site conditions.

Teaching Materials (教科書・参考書)

Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Tropical ornamental plant science

Course Subject Code(申請コード)

18B09

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Wednesday/3rd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Professor Kazuhiko SHIMASAKI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Floriculture

Professor (Telephone)(担当教員電話)

088-864-5130

Professor (E-Mail)(担当教員)

shim@kochi-u.ac.jp

Keyword for the subject(キーワード)

Tropical ornamentals, Growth control, Propagation

Content and Objective(授業テーマと目的)

Introduction to ornamental plant sciences and explanation on control of plant growth

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced tropical fruit science I

Course Subject Code(申請コード)

18B10

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Monday, 2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Tsuneo OGATA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Pomology and citriculture

Professor (Telephone)(担当教員電話)

088-864-5124

Professor (E-Mail)(担当教員)

fsogata@kochi-u.ac.jp

Keyword for the subject(キーワード)

Tropical and subtropical fruit trees, Propagation, Vegetative growth, Pruning and training,
Juvenility

Content and Objective(授業テーマと目的)

Physiological problems associated with tree propagation, vegetative growth and flower formation in
tropical and subtropical fruit trees.

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced Tropical Fruit Science II

Course Subject Code(申請コード)

18B11

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Spring term

Day/Period(時間割)

Monday, 2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Tsuneo OGATA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Pomology and citriculture

Professor (Telephone)(担当教員電話)

088-864-5124

Professor (E-Mail)(担当教員)

fsogata@kochi-u.ac.jp

Keyword for the subject(キーワード)

Tropical and subtropical fruit trees, Fertilization and seed formation, Parthenocarpy, Fruit

Content and Objective(授業テーマと目的)

Physiological problems associated with fertilization, seed formation and fruit growth in tropical and subtropical fruit trees.

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title (授業題目)

Advanced food production process engineering

Course Subject Code (申請コード)

18B12

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Friday/3rd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Toshio KAWANO

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Food production process engineering

Professor (Telephone) (担当教員電話)

088-864-5132

Professor (E-Mail) (担当教員)

tkawano@kochi-u.ac.jp

Keyword for the subject (キーワード)

Food production process, Food analysis, Heat and mass transfer, Chemical engineering

Unit operations

Content and Objective (授業テーマと目的)

Advanced study on the food production process, including physical and chemical reaction during the process

Teaching Materials (教科書・参考書)

F. P. Incropera, D. P. DE WITT: Fundamentals of Heat and Mass Transfer 3rd Ed., John Wiley & Sons Inc.

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Energy engineering in agriculture

Course Subject Code(申請コード)

18B13

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Fall term

Day/Period(時間割)

Friday/2nd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Kiyoshi MIYAUCHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Agricultural process engineering

Professor (Telephone)(担当教員電話)

088-864-5212

Professor (E-Mail)(担当教員)

kmiya@kochi-u.ac.jp

Keyword for the subject(キーワード)

Energy saving, Energy utilization, Natural energy, Protected horticulture

Content and Objective(授業テーマと目的)

Natural energy, a fossil fuel, electric power energy and the biomass required for agricultural production.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Sustainable forest operations and environmental protection

Course Subject Code(申請コード)

18B14

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Professor (Affiliation/Research field)(担当教員所属)

Jun-ichi GOTOU

Professor (Telephone)(担当教員電話)

Professor (E-Mail)(担当教員)

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results(成績評価の方法)

Course Subject Title (授業題目)

Agricultural meteorology

Course Subject Code (申請コード)

18B15

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

Not decided

Semester (履修期間)

Not decided

Day/Period (時間割)

Not decided

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Makito MORI

Professor (Affiliation/Research field) (担当教員所属)

Kochi Univewrsity

Professor (Telephone) (担当教員電話)

Professor (E-Mail) (担当教員)

Keyword for the subject (キーワード)

Content and Objective (授業テーマと目的)

Teaching Materials (教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title(授業題目)

Biological and environmental systems

Course Subject Code(申請コード)

18B16

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Monday/2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Professor Katsumi ISHIKAWA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/ Biological and environmental systems

Professor (Telephone)(担当教員電話)

088-864-5192

Professor (E-Mail)(担当教員)

ikatsumi@kochi-u.ac.jp

Keyword for the subject(キーワード)

Non-thermal energy, Water treatment, Greenhouses, Functional water, Eco-systemic agriculture

Content and Objective(授業テーマと目的)

Environmental situations for mass and quality plant production in greenhouses

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Statistical analysis methods in forestry

Course Subject Code(申請コード)

18B17

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Friday/2nd (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yasushi SUZUKI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Forest engineering

Professor (Telephone)(担当教員電話)

088-864-5137

Professor (E-Mail)(担当教員)

ysuzuki@kochi-u.ac.jp

Keyword for the subject(キーワード)

ANOVA, Design of experiment, Nonparametric method, Regression, Statistical analysis

Content and Objective(授業テーマと目的)

Basic statistical methods and advanced statistical methods, including design of experiments and analysis of variance (ANOVA), with practical application examples of these methods on data analysis of forest operation systems.

Teaching Materials(教科書・参考書)

Printed synopsis/ Text: Zar, J.H. (1999) Biostatistical analysis, 4th ed. 663 pp, Prentice-Hall Inc., Upper Saddle River, NJ.

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)
Environment Control in Agriculture

Course Subject Code (申請コード)
18B64

Credits (Units) (単位数)
1

Class Work Type (授業種別)
Lecture

Year of commencement (履修開始年次)
Not decided

Semester (履修期間)
Not decided

Day/Period (時間割)
Not decided

Students are classified differently according to year of university admission (区分等)
Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)
YASUTAKE Daisuke

Professor (Affiliation/Research field) (担当教員所属)
Kochi Univewrsity

Professor (Telephone) (担当教員電話)
088-864-5127

Professor (E-Mail) (担当教員)
yasutake@kochi-u.ac.jp

Keyword for the subject (キーワード)
Plant production system, Transport Phenomena, Measurement Technique, Environment Control

Content and Objective (授業テーマと目的)
Environmental plant physiology in the plant production systems

Teaching Materials (教科書・参考書)
Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)
Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced fish nutrition

Course Subject Code(申請コード)

18B18

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Toshiro MASUMOTO

Professor (Affiliation/Research field)(担当教員所属)

Kochi University

Professor (Telephone)(担当教員電話)

Professor (E-Mail)(担当教員)

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title(授業題目)

Cryobiology

Course Subject Code(申請コード)

18B19

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Magosaburo KASAI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University

Professor (Telephone)(担当教員電話)

088-864-5194

Professor (E-Mail)(担当教員)

mkasai@kochi-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title (授業題目)

Advanced fish ecology

Course Subject Code (申請コード)

18B20

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

Not decided

Semester (履修期間)

Not decided

Day/Period (時間割)

Not decided

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Kosaku YAMAOKA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University

Professor (Telephone) (担当教員電話)

088-864-5148

Professor (E-Mail) (担当教員)

yamaoka@kochi-u.ac.jp

Keyword for the subject (キーワード)

Content and Objective (授業テーマと目的)

Teaching Materials (教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title(授業題目)

Animal resources technology

Course Subject Code(申請コード)

18B21

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Keisuke EDASHIGE

Professor (Affiliation/Research field)(担当教員所属)

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Professor (Telephone)(担当教員電話)

088-864-5195

Professor (E-Mail)(担当教員)

keisuke@kochi-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results(成績評価の方法)

Course Subject Title(授業題目)

Production ecology of coastal marine zooplankton

Course Subject Code(申請コード)

18B22

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hiroshi UEDA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/ Zooplanktology

Professor (Telephone)(担当教員電話)

088-856-2553

Professor (E-Mail)(担当教員)

hueda@kochi-u.ac.jp

Keyword for the subject(キーワード)

Zooplankton, Copepoda, Biomass, Secondary production

Content and Objective(授業テーマと目的)

Introduction to zooplankton taxonomy and ecology, and exercise of quantitative zooplankton ecology and secondary productivity of coastal waters.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Advanced fish biochemistry

Course Subject Code (申請コード)

18B23

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Haruhisa FUKADA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Fish nutrition

Professor (Telephone) (担当教員電話)

088-864-5156

Professor (E-Mail) (担当教員)

fukaharu@kochi-u.ac.jp

Keyword for the subject (キーワード)

Fish, nutrition, Metabolism, Hormone, Growth

Content and Objective (授業テーマと目的)

Introduction to fish biochemistry and explanation on nutrient metabolism and growth

Teaching Materials (教科書・参考書)

Computer projector

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Fish health management

Course Subject Code(申請コード)

18B24

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Kenji KAWAI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Fish disease

Professor (Telephone)(担当教員電話)

088-864-5147

Professor (E-Mail)(担当教員)

kenkawai@kochi-u.ac.jp

Keyword for the subject(キーワード)

Fish disease, Infection, Vaccine, Chemotherapy, Pathogen

Content and Objective(授業テーマと目的)

Introduction to fish diseases and explanation on preventive measures against infectious diseases.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting a report after lecture

Course Subject Title(授業題目)

Fish Virology

Course Subject Code(申請コード)

18B25

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Shun-ichirou OSHIMA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Fish disease, Fish immunology, Virology

Professor (Telephone)(担当教員電話)

088-864-5214

Professor (E-Mail)(担当教員)

s-oshima@kochi-u.ac.jp

Keyword for the subject(キーワード)

Fish disease, Fish immunology, Virology, Vaccine

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results(成績評価の方法)

Course Subject Title (授業題目)

Fish ecology of the tropics

Course Subject Code (申請コード)

18B26

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

Not decided

Semester (履修期間)

Not decided

Day/Period (時間割)

Not decided

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Izumi KINOSHITA

Professor (Affiliation/Research field) (担当教員所属)

Kochu University/

Professor (Telephone) (担当教員電話)

088-856-0633

Professor (E-Mail) (担当教員)

muhomatu@kochi-u.ac.jp

Keyword for the subject (キーワード)

Content and Objective (授業テーマと目的)

Teaching Materials (教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title (授業題目)

Enhancement science for aquaculture

Course Subject Code (申請コード)

18B27

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year or 2nd year

Semester (履修期間)

Fall term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Shingo SEKI

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Fish genetics

Professor (Telephone) (担当教員電話)

088-864-5153

Professor (E-Mail) (担当教員)

seki@kochi-u.ac.jp

Keyword for the subject (キーワード)

Genetics, Breeding science, Chromosome manipulation, Molecular markers, Conservation genetics

Content and Objective (授業テーマと目的)

Introduction to fish genetics and breeding science with a focus on chromosome manipulation of fish.

Teaching Materials (教科書・参考書)

Computer projector

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Forest resources and environment economics

Course Subject Code(申請コード)

18B28

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yasushi FURUKAWA

Professor (Affiliation/Research field)(担当教員所属)

Kochi Univesity/Forest economics

Professor (Telephone)(担当教員電話)

088-864-5141

Professor (E-Mail)(担当教員)

furukawa@kochi-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results(成績評価の方法)

授業題目: Course Subject Title

Structure of forest products industry in Japan

申請コード: Course Subject Code

18B65

単位数: Credits (Units)

1

授業種別: Class Work Type

Lecture

履修開始年次: Year of commencement

1st year

履修期間: Semester

Fall term

時間割: Day/Period

Thursday/1st

区分等: Students are classified differently according to year of university admission

Admitted to AAP Master's course in or after 2008

担当教員名: Professor (Lecturer or Instructor)

Mika MATSUMOTO

担当教員所属: Professor (Affiliation/Research Field)

Kochi University/Forest management

担当教員電話: Professor (Telephone)

088-864-5145

担当教員: Professor (E-Mail)

matsumoto-mika@kochi-u.ac.jp

キーワード: Keyword for the subject

Forest management, Forest products industry, wood distribution

授業テーマと目的: Content and objective

Explanation about the structure of the forest products industry in Japan and its particularity

教科書・参考書: Teaching materials

Printed synopsis

成績評価の方法: Evaluation of results

Submitting paper (report) after the course

Course Subject Title (授業題目)

Theory of farm support system

Course Subject Code (申請コード)

18B29

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

Not decided

Semester (履修期間)

Not decided

Day/Period (時間割)

Not decided

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Takanori MATSUSHIMA

Professor (Affiliation/Research field) (担当教員所属)

Kochi Univesity/Agriculture economics

Professor (Telephone) (担当教員電話)

088-864-5126

Professor (E-Mail) (担当教員)

takasan@kochi-u.ac.jp

Keyword for the subject (キーワード)

Content and Objective (授業テーマと目的)

Teaching Materials (教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title (授業題目)

Post-harvest science and technology of fish

Course Subject Code (申請コード)

18B31

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Katsuji MORIOKA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Aquatic Product Utilization

Professor (Telephone) (担当教員電話)

088-864-5160

Professor (E-Mail) (担当教員)

morioka@kochi-u.ac.jp

Keyword for the subject (キーワード)

Content and Objective (授業テーマと目的)

Lecture on the changes in quality during storage of fisheries foods and their preservation methods.

Teaching Materials (教科書・参考書)

Computer projector/OHP/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Food science and technology

Course Subject Code(申請コード)

18B30

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hiroyuki UKEDA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Food science

Professor (Telephone)(担当教員電話)

088-864-5189

Professor (E-Mail)(担当教員)

hukeda@kochi-u.ac.jp

Keyword for the subject(キーワード)

Food, Heating, Maillard reaction, Reactive oxygen species

Content and Objective(授業テーマと目的)

The interaction between components in foods is discussed in relation with food processing and advanced food processing technology.

Teaching Materials(教科書・参考書)

Computer projector /Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Food resources utilization

Course Subject Code(申請コード)

18B32

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Takehiro KASHIWAGI・Tomoko SHIMAMURA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Food science

Professor (Telephone)(担当教員電話)

088-864-5184

Professor (E-Mail)(担当教員)

tkashi@kochi-u.ac.jp

Keyword for the subject(キーワード)

Food science, Food chemistry, Food processing, Functional food

Content and Objective(授業テーマと目的)

Recent topic researches on the chemical properties of bioresources and the technology of their processing and utilization

Teaching Materials(教科書・参考書)

Computer projector/ Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Experimental course in applied chemistry of bioresources

Course Subject Code(申請コード)

18B33

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Experiment

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Hiroyuki UKEDA・Takehiro KASHIWAGI・Tomoko SHIMAMURA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Food science

Professor (Telephone)(担当教員電話)

088-864-5189 (Hiroyuki UKEDA)

Professor (E-Mail)(担当教員)

hukeda@kochi-u.ac.jp (Hiroyuki UKEDA)

Keyword for the subject(キーワード)

Food analysis, Food science, Food chemistry, Functional food

Content and Objective(授業テーマと目的)

Instruction of recent chemical and instrumental analyses of natural products.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Molecular nutrition

Course Subject Code(申請コード)

18B34

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Not decided (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Makoto ASHIUCHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Tropical bioengineering

Professor (Telephone)(担当教員電話)

088-864-5215

Professor (E-Mail)(担当教員)

ashiuchi@kochi-u.ac.jp

Keyword for the subject(キーワード)

Molecular biology, Biochemistry, Nutritional chemistry, Food microbiology

Content and Objective(授業テーマと目的)

The aim of this lesson is to enrich the knowledge of new nutritional science that flowers with the advance of molecular genetics in human, animals and microorganisms.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)
Experimental course in applied microbiology

Course Subject Code (申請コード)
18B35

Credits (Units) (単位数)
1

Class Work Type (授業種別)
Lecture/Experiment

Year of commencement (履修開始年次)
1st year

Semester (履修期間)
Spring term

Day/Period (時間割)
Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)
Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)
Shinji NAGATA

Professor (Affiliation/Research field) (担当教員所属)
Kochi University/Microbiology

Professor (Telephone) (担当教員電話)
088-864-5190

Professor (E-Mail) (担当教員)
nagashin@kochi-u.ac.jp

Keyword for the subject (キーワード)
Microbiology, Enzymology, Fermentation, Food production, Applied microbiology

Content and Objective (授業テーマと目的)
Characteristics, the application, and the current state of the art regarding the microbes and its enzymes in extreme environments.

Teaching Materials (教科書・参考書)
Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)
Report and presentation after the course

Course Subject Title(授業題目)

Advanced chemical ecology

Course Subject Code(申請コード)

018B36

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Fall term

Day/Period(時間割)

Not decided (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Chul-Sa KIM

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/

Professor (Telephone)(担当教員電話)

088-864-5185

Professor (E-Mail)(担当教員)

cs-kim@kochi-u.ac.jp

Keyword for the subject(キーワード)

Host selection, Co-evolution, Bioactive substance, Insect, Plant, Relationship

Content and Objective(授業テーマと目的)

Lecture on "Semiochemicals" between organisms

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Advanced biomaterial science

Course Subject Code (申請コード)

18B37

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

Monday/1st

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Hideaki ICHIURA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Biomaterial chemistry

Professor (Telephone) (担当教員電話)

088-864-5142

Professor (E-Mail) (担当教員)

ichirua@kochi-u.ac.jp

Keyword for the subject (キーワード)

Pulp, Paper

Content and Objective (授業テーマと目的)

This lecture is that the functional materials produced from forest resources will be introduced.

Teaching Materials (教科書・参考書)

Computer projector

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced instrumental analytical chemistry

Course Subject Code(申請コード)

18B38

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year or 2nd year

Semester(履修期間)

all term

Day/Period(時間割)

(Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Shinichi TEBAYASHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Bioorganic chemistry

Professor (Telephone)(担当教員電話)

088-864-5203

Professor (E-Mail)(担当教員)

tebayasi@kochi-u.ac.jp

Keyword for the subject(キーワード)

NMR, MS, UV, IR

Content and Objective(授業テーマと目的)

The practice of the structure elucidation method of the organo-chemical using ultraviolet-visible spectroscopy, infrared spectroscopy, mass spectroscopy and nuclear-magnetic-resonance spectroscopy.

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Paper test and presentation

Course Subject Title(授業題目)

Biofunction of deep seawater

Course Subject Code(申請コード)

18B39

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year or 2nd year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Haruhiko UEHIGASHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi Prefectural Industrial Technology Center / Food processing

Professor (Telephone)(担当教員電話)

088-846-1652

Professor (E-Mail)(担当教員)

haruhiko_uehigashi@ken2.pref.kochi.lg.jp

Keyword for the subject(キーワード)

Deep seawater, Fermentation, Food, Beer, Sake

Content and Objective(授業テーマと目的)

On the effect of the addition of deep seawater on the fermentation of foods : sake, beer, wine, soy sauce and so on. Visiting deep seawater-related companies.

Teaching Materials(教科書・参考書)

Computer projector/Printed materials

Evaluation of Results (成績評価の方法)

Attendance and submitting reports after the course

Course Subject Title (授業題目)

Applied Enzymology

Course Subject Code (申請コード)

18B40

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Not decided (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Hisashi MURAMATSU

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Applied enzymology

Professor (Telephone) (担当教員電話)

088-864-5187

Professor (E-Mail) (担当教員)

hmura@kochi-u.ac.jp

Keyword for the subject (キーワード)

Application of enzyme, Screening for enzyme, Structure and mechanism in enzyme, Industrial application

Content and Objective (授業テーマと目的)

An overview of the use of enzymes in industrial applications. Includes a background, a discussion of structure and reactivity.

Teaching Materials (教科書・参考書)

Computer projector/ Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Tropical Crop Molecular Breeding

Course Subject Code(申請コード)

18B41

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Kouhei OHNISHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Molecular genetics

Professor (Telephone)(担当教員電話)

088-864-5213

Professor (E-Mail)(担当教員)

kouheio@kochi-u.ac.jp

Keyword for the subject(キーワード)

Molecular evolution, Breeding, Disease, Cloning

Content and Objective(授業テーマと目的)

Molecular breeding based on evolutionary molecular engineering will be discussed with certain examples, such as improvement of thermostability.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Chemistry of woody material utilization

Course Subject Code(申請コード)

18B42

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Wednesday/2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yoshito OHTANI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Wood chemistry

Professor (Telephone)(担当教員電話)

088-864-5143

Professor (E-Mail)(担当教員)

ohtani@kochi-u.ac.jp

Keyword for the subject(キーワード)

Woody components, Forest products, Naturally occurring compounds, Utilization

Content and Objective(授業テーマと目的)

Explaining and discussing with some references to deepen the understanding

Teaching Materials(教科書・参考書)

Teaching materials

Evaluation of Results(成績評価の方法)

Submitting paper (report) during and after the course)

Course Subject Title(授業題目)

Advanced wood histology

Course Subject Code(申請コード)

18B43

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Thursday/2nd

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Professor Shinji FUJIWARA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Forest Products Science

Professor (Telephone)(担当教員電話)

088-864-5146

Professor (E-Mail)(担当教員)

s_fujiwara@kochi-u.ac.jp

Keyword for the subject(キーワード)

Wood structure, Wood properties, Annual ring, Silvicultural management

Content and Objective(授業テーマと目的)

Introduction to anatomical structure and variation of wood properties

Teaching Materials(教科書・参考書)

「Forest Products and Wood Science」 by J.G. Haygreen & J.L. Bowyer, Iowa State University Press.1996

Evaluation of Results(成績評価の方法)

Submitting report after the course)

Course Subject Title(授業題目)

Applied Biological Chemistry

Course Subject Code(申請コード)

18B44

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yagi TOSHIHARU

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Applied biochemistry

Professor (Telephone)(担当教員電話)

088-864-5191

Professor (E-Mail)(担当教員)

yagito@kochi-u.ac.jp

Keyword for the subject(キーワード)

Proteins, Enzymes, Carbohydrates, Lipids, Nucleotides, Vitamins

Content and Objective(授業テーマと目的)

Lecture on basic and applicable aspects of amino acids, proteins, enzymes, carbohydrates, lipids, nucleotides, vitamins and hormones.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Experimental course in applied biological chemistry

Course Subject Code(申請コード)

18B45

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Experiment

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Monday/4th

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yagi TOSHIHARU

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Applied biochemistry

Professor (Telephone)(担当教員電話)

088-864-5191

Professor (E-Mail)(担当教員)

yagito@kochi-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Guidance of technical skills in biochemistry, molecular nutrition, and molecular biology

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced soil conservation

Course Subject Code(申請コード)

018B46

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Taiichirow ATO

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/

Professor (Telephone)(担当教員電話)

088-864-5170

Professor (E-Mail)(担当教員)

satot@kochi-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title (授業題目)

Sediment discharge control

Course Subject Code (申請コード)

18B47

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Not yet fixed. Contact to the lecturer to determine the schedule

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Katsuo SASAHARA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Sediment Discharge and Erosion Control

Professor (Telephone) (担当教員電話)

088-864-5341

Professor (E-Mail) (担当教員)

sasahara@kochi-u.ac.jp

Keyword for the subject (キーワード)

Sediment yield, Land erosion, Landslide, Debris flow

Content and Objective (授業テーマと目的)

To understand the mechanism of sediment yield and discharge from forested slope, and to understand the mechanism of landslide

Teaching Materials (教科書・参考書)

Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report during the course

Course Subject Title (授業題目)

Environmental facility engineering

Course Subject Code (申請コード)

18B50

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

To be determined (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Shinsuke MATSUMOTO

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Construction engineering

Professor (Telephone) (担当教員電話)

088-864-5169

Professor (E-Mail) (担当教員)

mazmoto@kochi-u.ac.jp

Keyword for the subject (キーワード)

Numerical simulation, Computational mechanics, Agricultural structures, Concrete engineering

Content and Objective (授業テーマと目的)

Numerical analysis technique and knowledge for designing agricultural facilities and structures

Teaching Materials (教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Groundwater hydraulics

Course Subject Code(申請コード)

18B51

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Monday/4th

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Professor Kunio OHTOSHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Water disaster prevention

Professor (Telephone)(担当教員電話)

088-864-5172

Professor (E-Mail)(担当教員)

disaster@kochi-u.ac.jp

Keyword for the subject(キーワード)

Groundwater, Coastal aquifer, Saline water intrusion, Mathematical model

Content and Objective(授業テーマと目的)

Modeling of groundwater hydraulics and its application to coastal aquifer

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report during the course

Course Subject Title(授業題目)

Analytical Chemistry of Plant Root Environment

Course Subject Code(申請コード)

18B52

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture/Exercise

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Kozo IWASAKI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Agro-environmental chemistry, Plant nutrition

Professor (Telephone)(担当教員電話)

088-864-5180

Professor (E-Mail)(担当教員)

kozo@kochi-u.ac.jp

Keyword for the subject(キーワード)

Rhizosphere, Nutrients, Heavy metals, Dynamics, Plant uptake

Content and Objective(授業テーマと目的)

After taking this course, students will be able to understand basic aspects of nutrient dynamics in rhizosphere soils and mechanism of nutrient uptake / accumulation by plants.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Tropical agro-environmental chemistry

Course Subject Code(申請コード)

18B54

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Tuesday/1st

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yumei KANG

Professor (Affiliation/Research field)(担当教員所属)

Kochi University / Soil environmental science

Professor (Telephone)(担当教員電話)

088-864-5182

Professor (E-Mail)(担当教員)

kang@cc.kochi-u.ac.jp

Keyword for the subject(キーワード)

Soil, Water, Plant, Pollution, Heavy metals

Content and Objective(授業テーマと目的)

Soil properties and contamination affected by the tropical environment will be described in terms of physicochemical view points.

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting report after the course

Course Subject Title (授業題目)

Applied entomology

Course Subject Code (申請コード)

18B55

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Ryo ARAKAWA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Applied Entomology

Professor (Telephone) (担当教員電話)

088-864-5122

Professor (E-Mail) (担当教員)

arakawar@kochi-u.ac.jp

Keyword for the subject (キーワード)

Entomology, Integrated pest management, Integrated biodiversity management, Biological control

Content and Objective (授業テーマと目的)

Ecology of insect pests, and theory of integrated pest management (IPM) and integrated biodiversity management (IBM).

Teaching Materials (教科書・参考書)

Computer projector /Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Biological control

Course Subject Code(申請コード)

18B56

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Spring term

Day/Period(時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Ryo ARAKAWA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Applied entomology

Professor (Telephone)(担当教員電話)

088-864-5122

Professor (E-Mail)(担当教員)

arakawar@kochi-u.ac.jp

Keyword for the subject(キーワード)

Biological control, Natural enemies, Sustainable agriculture, Parasitoid, Predator

Content and Objective(授業テーマと目的)

Principles and current issues in biological control of arthropod pests and life history of the major groups of parasitic and predaceous arthropods.

Teaching Materials(教科書・参考書)

Computer projector /Printed synopsis

Evaluation of Results (成績評価の方法)

Submitting report after the course

Course Subject Title(授業題目)

Advanced environmental water management engineering

Course Subject Code(申請コード)

18B57

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

Not decided

Semester(履修期間)

Not decided

Day/Period(時間割)

Not decided (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Shushi SATO

Professor (Affiliation/Research field)(担当教員所属)

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088-864-5150

Professor (E-Mail)(担当教員)

syu@kochi-u.ac.jp

Keyword for the subject(キーワード)

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Evaluation of Results (成績評価の方法)

Course Subject Title (授業題目)

Remote sensing

Course Subject Code (申請コード)

18B58

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Masayuki MATSUOKA

Professor (Affiliation/Research field) (担当教員所属)

Kochi University/Remote sensing

Professor (Telephone) (担当教員電話)

088-864-5166

Professor (E-Mail) (担当教員)

msykmok@kochi-u.ac.jp

Keyword for the subject (キーワード)

Remote sensing, Satellite, Image processing, Land surface

Content and Objective (授業テーマと目的)

The utilization of remote sensing for land application is outlined in connection with the general features of remote sensing such as sensor type, mechanism of observation and characteristics of data.

Teaching Materials (教科書・参考書)

Computer projector

Evaluation of Results (成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Application of microbial functions

Course Subject Code(申請コード)

18B59

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Intensive course in the spring term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Masao ADACHI

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Aquatic environmental science

Professor (Telephone)(担当教員電話)

088-864-5216

Professor (E-Mail)(担当教員)

madachi@kochi-u.ac.jp

Keyword for the subject(キーワード)

Microorganisms, Bacteria, Plankton, Marine biotechnology, Bioremediation

Content and Objective(授業テーマと目的)

In this lecture, application of microorganisms from natural environments using traditional methods as well as biotechnological methods is introduced.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Advanced environmental water quality engineering

Course Subject Code(申請コード)

18B60

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

2nd year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Associate Professor Taku FUJIWARA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Sewage treatment

Professor (Telephone)(担当教員電話)

088-864-5163

Professor (E-Mail)(担当教員)

fujiiwarat@kochi-u.ac.jp

Keyword for the subject(キーワード)

Sewage, Reactor, Mass balance, Microbial kinetics, The activated sludge process

Content and Objective(授業テーマと目的)

Introduction of sewage treatment system

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course

Course Subject Title(授業題目)

Plant molecular ecology

Course Subject Code(申請コード)

18B61

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term

Day/Period(時間割)

Intensive course in the fall term (Contact the lecturer to confirm the availability of the course.)

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Tatsuya FUKUDA

Professor (Affiliation/Research field)(担当教員所属)

Kochi University/Molecular ecology

Professor (Telephone)(担当教員電話)

088-864-5140

Professor (E-Mail)(担当教員)

tfukuda@cc.kochi-u.ac.jp

Keyword for the subject(キーワード)

Ecology, Evolution, Plan

Content and Objective(授業テーマと目的)

Teaching Materials(教科書・参考書)

Printed synopsis

Evaluation of Results(成績評価の方法)

Report after the course

Course Subject Title (授業題目)

Plant pathology

Course Subject Code (申請コード)

18B62

Credits (Units) (単位数)

1

Class Work Type (授業種別)

Lecture

Year of commencement (履修開始年次)

1st year

Semester (履修期間)

Fall term

Day/Period (時間割)

Thursday/1st

Students are classified differently according to year of university admission (区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor) (担当教員名)

Akinori KIBA

Professor (Affiliation/Research field) (担当教員所属)

Professor (Telephone) (担当教員電話)

088-864-5196

Professor (E-Mail) (担当教員)

akiba@kochi-u.ac.jp

Keyword for the subject (キーワード)

Plant, Pathogen, Interactions, Defense responses

Content and Objective (授業テーマと目的)

Introduction to plant-microbe interactions.

Teaching Materials (教科書・参考書)

Computer projector/OHP/Printed synopsis

Evaluation of Results (成績評価の方法)

Presentation

Course Subject Title(授業題目)

Plant bacteriology

Course Subject Code(申請コード)

18B63

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Fall term orl spring term

Day/Period(時間割)

Friday/4th

Students are classified differently according to year of university admission(区分等)

Admitted to AAP Master's course in or after 2008

Professor (Lecturer or Instructor)(担当教員名)

Yasufumi Hikichi

Professor (Affiliation/Research field)(担当教員所属)

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088-864-5218

Professor (E-Mail)(担当教員)

yhikichi@kochi-u.ac.jp

Keyword for the subject(キーワード)

Plant, Pathology, Bacteriology, Plant-microbe interactions

Content and Objective(授業テーマと目的)

Pathogenicity mechanism of plant bacteria, especially, gram negative bacteria, such as *Ralstonia solanacearum*, *Burkholderia glumae*, *Pseudomonas cichorii* et al.

Teaching Materials(教科書・参考書)

Computer projector

Evaluation of Results(成績評価の方法)

Submitting paper (report) after the course