

Syllabus

for Study

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

Shikoku International Student Education Consortium

* [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。)

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

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.)

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.)

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.)

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.)

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

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

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

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

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.)

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

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

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.)

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.)

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

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

Jun-ichi GOTOU

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

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

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

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.)

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)

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

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)

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.)

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

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)

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.)

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

Keisuke EDASHIGE

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

Kochi University

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.)

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.)

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.)

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 report after the course

Course Subject Title (授業題目)

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

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

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.)

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

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)

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

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)

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.)

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

Hiroyuki UKEDA and Tomoko SHIMAMURA

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

Kochi University/Food science

Professor (Telephone) (担当教員電話)

088-864-5193 (Tomoko SHIMAMURA)

Professor (E-Mail) (担当教員)

tomokos@kochi-u.ac.jp (Tomoko SHIMAMURA)

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)

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.)

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 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.)

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

Takehiro KASHIWAGI

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

UKEDA (受田), KASHIWGI (柏木), SHIMAMURA (島村)

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.)

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)

088-864-5193 (Tomoko SHIMAMURA)

Professor (E-Mail) (担当教員)

tomokos@kochi-u.ac.jp (Tomoko SHIMAMURA)

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.)

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)

Applied microbiology in extreme environments

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.)

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

Shinji NAGATA

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

Kochi University/Applied 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)

18B36

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.)

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)

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 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

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.)

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.)

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.)

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)

Molecular Breeding of protein

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.)

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

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

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.)

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

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)

18B46

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.)

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)

Landslide and 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

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, Rainfall infiltration, Landslide

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.)

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

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, Mahematical 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.)

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, you should be able to understand basic aspects of nutrient dynamics in rhizosphere soils and nutrient uptake mechanism by plant roots.

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

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

Associate Professor 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.)

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.)

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.)

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

Shushi SATO

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

Kochi University

Professor (Telephone) (担当教員電話)

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.)

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)

msykmtok@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)

Introduction of harmful algal blooms (HABs)

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.)

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)

Harmful algal blooms, red tides, shellfish poisoning, Plankton

Content and Objective (授業テーマと目的)

In this lecture, physiology, ecology and molecular biology of phytoplankton HAB(harmfulalgal bloom) species are 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.)

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)

Advanced 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.)

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

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

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

Professor Yasufumi Hikichi

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

Kochi University/Plant Biotechnology & Biotechnology

Professor (Telephone) (担当教員電話)

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

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)

1st year

Semester (履修期間)

Spring term

Day/Period (時間割)

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

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

Daisuke YASUTAKE

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

Kochi University

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)

Measurement techniques, Plant response, Environment control, Plant production

Content and Objective (授業テーマと目的)

To study the transport processes in the plant-environment systems and their optimization.

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)

Ethnopharmacology and Natural Product Chemistry

Course Subject Code (申請コード)

18B66

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.)

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

Kazuhiro OHTANI

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

Kochi University

Professor (Telephone) (担当教員電話)

088-864-5177

Professor (E-Mail) (担当教員)

kazz@kochi-u.ac.jp

Keyword for the subject (キーワード)

Traditional medicine, Medical plants, Lifestyle-related disease

Content and Objective (授業テーマと目的)

Lecture on ethnopharmacology, which is the study correlating ethnic groups, their health, and how it relates to their physical habits and methodology in creating and using medicines.

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 soil ecology

Course Subject Code (申請コード)

18B67

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

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

Associate Professor Sota TANAKA

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

Kochi University / Soil ecology

Professor (Telephone) (担当教員電話)

088-864-5183

Professor (E-Mail) (担当教員)

sotatnk@kochi-u.ac.jp

Keyword for the subject (キーワード)

Soil science, Soil ecology, Tropical agriculture

Content and Objective (授業テーマと目的)

Fundamental soil science and ecology in terms of sustainable agriculture, especially the tropical region.

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