

UPLB Summer Short Courses 2006

UPLB Research and Extension

The University of the Philippines Los Baños (UPLB) is involved not only in instruction, but also in research and extension. Its intellectual resources, through research, continue to generate new ideas and technologies designed to benefit various clientele. Through the University's extension function, these ideas and technologies are disseminated to intended beneficiaries with the goal of attaining social change and development.

Among the regular extension activities of UPLB is the offering of non-degree programs through the Summer Short Courses and Training Programs. The short courses and training programs are designed to provide practical knowledge and skills in various subject matters. These course offerings are annually conducted in March, April, and May. These courses can also be offered any month of the year depending on the request of an organization.

This brochure lists the various courses and training programs offered by the UPLB units. In addition to these, UPLB also designs and conducts other courses upon request of a sponsoring institution.

For more information and inquiries, please contact the Office of the Vice Chancellor for Research and Extension (OVCRE), UP Los Baños, College, Laguna, telephone numbers (049) 536-5326, (049) 536-2354 and telefax (049) 536-3341; email address ovcre@uplb.edu.ph and ovcre_uplb@yahoo.com.

Animal and Dairy Sciences

Duck Nutrition and Management

Nutrient requirements and principles of duck nutrition, housing and management practices.

April 17-18
P1,500 per person
Min. no. of participants: 10
Coordinator:
Ms. I.O. Aycocho
Tel. No. 536-2547/3426

Duck Egg Processing (Balut, Salted Eggs and Other Duck Egg Products)

Principles of egg preservation and hands on processing of salted eggs, balut and other duck egg products.

April 19-20
P1,500 per person
Min no. of participants: 5
Coordinator:
Ms. A.L. Mariño
Tel. No. 536-2547/3426

Hatchery Management Operation

Principles involved and techniques for effective hatchery management opera-

April 21
P600 per person
Min. no. of participants: 5
Coordinator:
Ms. A.L. Mariño
Tel. No. 536-2547/3426

Layer Management (Poultry)

Care and management of pullets during and after brooding and growing stages (culling, and forced molting techniques).

May 2-3
P1,000 per person
Min. no. of participants: 5
Coordinator:
Ms. B.R. Garcia
Tel. No. 536-2547/3426.

Breeder Management (Poultry)

Care and management of breeders for efficient production of hatching eggs.

May 4-5
P1,000 per person
Min. no. of participants: 5
Coordinator:
Ms. B.R.Garcia
Tel. No. 536-2547/3426

Brooding and Growing Management of Chickens

Care and management of chickens (meat and egg type) during and after brooding stage

April 27-28
P1,000 per person
Min. no. of participants: 5
Coordinator:
Ms. A.L Mariño
Tel. No. 536-2547/3426

Health Management of Chickens and Ducks

Common diseases of chickens and ducks with emphasis on prevention and control (biosecurity, vaccination, medication, disinfection and simple diagnostic tests).

April 25-26
P1000 per person
Min. no. of participants: 5
Coordinator:
Ms. A.L. Mariño

Quail Production

Management practices (stock selection, housing, feeds and feeding, disease prevention) and the economics of quail production.

April 24
P600 per person
Min. no. of participants: 2
Coordinator:
Ms. A.L.Mariño
Tel No. 536-2547/3426

Basic Swine Production

Principles of swine production

May 15-16
P1,500 per person
Min. no. of participants: 8
Coordinator: Ms. B.R. Garcia
Tel. No. 536-2547/3426

Swine Reproduction and Artificial Insemination

Principles and practices in swine reproduction and manipulative skills in artificial insemination, semen collection and evaluation, handling and storage, heat detection, estrous synchronization, pregnancy diagnosis and proper management of pregnant sow.

May 17-18
P1500 per person
Min. no. of participants: 2
Coordinator: Ms. B.R.Garcia
Tel. No. 536-2547/3426

Advances in Swine Nutrition

Recent trends in swine nutrition and feeding practices.

May 19
P1,500 per person
Min. no. of participants: 5
Coordinator: Ms. B.R. Garcia
Tel. No. 536-2547/3426

Feed Quality Control

Physical and chemical evaluation methods and techniques to determine the quality of feed ingredients.

May 22-26
P2,500 per person
Min. no. of participants: 10
Coordinator: Ms. I.O.Aycocho
Tel. No. 536-2547/3426

Ration Formulation

Principles involved in actual formulation of rations for livestock and poultry using most commonly available feed ingredients and actual test cost feed formulation using the computer

May 29-June 2
P2000 per person
Min. no. of participants: 10
Coordinator: Ms. A.L. Mariño
Tel. no. 536-2547/3426

Forage Production and Conservation

Basic principles and practices in forage production (establishment, maintenance, utilization and conservation) and dry season feeding strategies to augment feed sup-

April 24-26
P1,200 per person
Min. no. of participants: 6
Coordinators:
Ms. M.S. Galang
Mr. M.M.Loresco
Tel. No. 536-2202/2205

Ruminant Production and Management

Management practices (stock selection, housing, feeds and feeding, disease prevention) and the economics of cattle, goat and sheep production.

May 8-9
P1,500 per person
Min. no. of participants: 5
Coordinator:
Ms. I.O..Aycocho
Tel. No. 536-2547/3426

Advances in Ruminant Nutrition

Recent trends in ruminant nutrition and feeding practices.

May 10
P1,000 per person
Min. no. of participants: 5
Coordinator: Ms. I.O.Aycocho
Tel. No. 536-2547/3426

Slaughtering and Fabrication of Farm Animals

Basic principles in selection and management of animals prior to slaughter and procedures in slaughtering and fabrication of farm animals for supermarket style of retailing meats.

May 8-9
P1,500 per person
Min. no. of participants: 10
Coordinator: Ms. B.R Garcia.
Tel. No. 536-2547/3426

Basic Training Course for Milkers

Basic knowledge in milk production practices covering topics on physiology of lactation, milking procedures, milk hygiene and sanitation, mastitis control and quality tests for raw milk

April 10-12
P1,500 per person
Min. no. of participants: 5
Coordinators: Ms. M.S.Galang
Mr. N.B.Velasco
Tel. No. 536-2202/2205

Dairy Products Manufacture at Home

Principles of processing of different dairy products which can be manufactured at home. These products are liquid milk, yoghurt, ice cream, white cheese and pastilles de leche. Also include topics on cheese coagulant and sensory evaluation of dairy products.

April 25-28
P2,500 per person
Min. no. of participants: 6
Coordinators: Ms. M.S. Galang
Ms. I.V.Gomez
Tel No. 536-2202/2205

Ice Cream Processing

General milk treatment, ingredients, calculation and processing of ice cream mix, freezing and hardening, different varieties of ice cream, judging and quality control

May 8-11
P3,000 per person
Min. no. of participants: 5
Coordinators: Ms.M.S.Galang
Ms. O.C.Emata
Tel. No. 536-2202/2205

Practical Training Course for Dairy Plant Operators

General milk treatments, dairy microbiology and hygiene, milk plant equipment operation, milk reception, dairy processing equipment cleaning procedures, processing of dairy products like liquid milk, white cheese, ice cream and yogurt, and quality tests for raw milk and finished dairy products.

May 15-24
P2000 per person
Min. no. of participants: 7
Coordinators: Ms.M.S.Galang
Ms. A.B.Lanaca
Tel. No. 536-2202/2205

Dairy Production and Management

Principles of dairy production, management of dairy farms under Philippine conditions, animal health, breeding and physiology, feeds and feeding, pasture establishment and forage production and conservation, dairy economics and hands-on exercises in proper animal handling and milking

April 3-7
P1,500 per person
Min. no. of participants: 10
Coordinators: Ms. M.S.Galang
Mr. N.B. Velasco
Tel no. 536-2202/2205

Intensive Training Course on Data Evaluation Methods in Animal Science R & D Projects

Basic principles and practical background and experience involved in the planning, design and implementation, analysis and presentation of results of animal experiments and field studies

By arrangement (anytime of the year)
P5000 per person
Min. no. of participants: 4
Coordinator: Dr. M.B.Bejo
Tel. No. 536-2547/3426

FOOD SCIENCE

Peanut Processing

Peanut processing principles, quality control and hands-on processing of different peanut products such as sugar-coated peanuts, peanut bar, peanut brittle, peanut butter, nougat, mazapan de mani, polvoron de mani, peanut candy and pastilles de mani

May 11
P900 per person
Min. no. of participants: 4
Coordinator: Mr. V.P. Dia
Tel. No. 536-2303

Mango Processing

Principles and methods of processing, quality control, materials and equipment sourcing, cost-analysis and hands-on processing of mango in syrup, puree, nectar, jam, pickles and chutney, dehydrated mango and mango roll.

April 20-21
P1000 per person
Min. no. of participants: 4
Coordinator:
Dr. E.V. Carpio
Tel. No. 536-2312

Coconut Processing

Principles of coconut processing, quality control, and hands-on processing of coconut such as coco jam, espasol, makapuno preserve, makapuno candy, bukayo and buko

April 27
P900 per person
Min. no. of participants: 4
Coordinator: Mr. V.P.Dia
Tel. No. 536-2312

Soybean Processing

Principles of soybean processing, quality control and hands-on processing of soybean such as soymilk, taho, and tokwa

May 18
P900 per person
Min. no. of participants: 4
Coordinator: Mr. V.P.Dia
Tel. No. 536-2303

Meat Processing

Principles and methods of meat preservation, quality control, product costing and hands-on processing of tocino, tapa, pork ham, chicken ham, bacon, longanisa, corned beef, siomai and other ground meat

April 20-21
P1000 per person
Min. no. of participants: 4
Coordinator:
Dr. R.C. Mabesa
Tel. No. 536-2358

Meat Processing I. Processing of Tocino, Corned Beef, Fresh Sausage and the Like

Principles, methods, and marketing of tocino, corned beef, fresh sausage and the like.

May 10-12
P1,500 per person
Min. no. of participants: 10
Coordinator: Ms. I.O.Aycocho
Tel. No. 536-2547/3426

Meat Processing II. Processing of Meat Loaves, Hotdogs and Similar Products

Principles, methods and marketing of comminuted products such as meat loaves, hotdogs, hamburgers and the like.

May 15-17
P1,500 per person
Min. no. of participants: 10
Coordinator: Ms. I.O Aycocho
Tel No. 536-2547/34.26

Buko Processing

Principles and methods of processing, quality control, materials and equipment sourcing, cost-analysis and hands-on processing of buko juice, buko in syrup, dehydrated buko strips and buko roll.

May 19
P900 per person
Min. no. of participants: 4
Coordinator: Dr. E.V. Carpio
Tel. No. 536-2312

Fish Processing

Principles and methods of fish preservation, quality control, product costing and hands-on processing of dried fish, smoked fish, fish sauce, bottled bangus in oil, squid ball and fish ball.

April 6-7
P900 per person
Min. no. of participants: 4
Coordinator: Dr. R.C. Mabesa
Tel. No. 536-2358

Pineapple Processing

Principles and methods of processing, quality control, materials and equipment sourcing, cost-analysis and hands-on processing of pineapple in syrup, jam, rum pineapple, dehydrated pineapple, and pineapple roll

May 4-5
P900 per person
Min. no. of participants: 4
Coordinator: Dr.E.V.Carpio
Tel. No. 536-2312

Vegetable Processing

Principles and hands-on exercises on vegetable preservation, dehydration, canning,

April 20-21

P800 per person

Min. no. of participants: 4

Coordinator: Dr.L.B. Mabesa

Tel. No. 536- 2358

Banana Processing

Principles and methods of processing, quality control, materials and equipment sourcing, cost analysis and hands-on processing of banana ketchup, chips, flour, fries.

May 12

P900 per person

Min. no. of participants: 4

Coordinator: Dr. E.V.Carpio

Tel. No. 536-2312

Fruit Wine Production

Principles and methods of wine production from some tropical fruits.

May 11-12

P700 per person

Min. no. of participants: 4

Coordinator: Dr. E.I. Dizon

Tel. No. 536-2312

Vinegar Production

Principles and methods of vinegar production from coconut water and tropical fruits.

May 4-5

P400 per person

Min. no. of participants: 4

Coordinator: Dr.E.I.Dizon

Tel. No. 536-2312

Sanitary Practices in Food Processing and Food Establishment

Principles and practices of hygiene and sanitation and safety in food processing.

May 25-26

P800 per person

Min. no. of participants: 4

*Coordinator:*Dr.R.C.Mabesa

Tel. No. 536-2358

Sensory Evaluation of Foods

Principles and procedures on the different sensory testing methods

May 4-5

P800 per person

Min. no. of participants: 4

Coordinator: Dr LB. Mabesa

Tel. No. 536-2358

GMP and HACCP Program Development for Small and Medium Food Enterprises

Principles and methods of developing GMP and HACCP programs for small and medium food enterprises.

May 23-24

P800 per person

Min. no. of participants: 4

Coordinator: Dr. R.C.Mabesa

Tel. No. 536-2358

Postharvest Technology

Postharvest Handling of Fresh Fruits, Vegetables and Cutflowers

Theoretical and practical aspects of handling fresh fruits, vegetables and cutflowers after harvest, including methods of determining harvest maturity, packing house operations, grading and standardization, temperature management and storage techniques, ripening regulation, packaging and transport, food safety and quality assurance, postharvest disease control and minimal processing of fresh cuts; includes hands-on technology demonstration.

May 3-5
P2000 per person
Min. no. of participants: 10
Coordinator:
Dr. D.R. del Carmen
Tel. No. 536-3138/ 2444

Design and Establishment of Postharvest Infrastructure Facilities

Basic principles of design, layout and location of a packinghouse facility for fresh fruits, vegetables and cutflowers. Introduction to packinghouse operations and equipment e.g. sizer/sorter, washing tanks, drying racks, etc; includes design exercise for a basic packinghouse, hence, participants are encouraged to work on a design problem related to their commodity.

May 9-10
P1200 per person
Min. no. of participants: 10
Coordinator:
Dr. D.R. del Carmen
Tel. No. 536-3138/ 2444

The ABC's of Handling Fresh Fruits and Vegetables

Awareness of the basic aspects of postharvest handling, simple handling techniques to maintain good quality of the produce and minimize product deterioration during distribution process up to retail display.

April 20
P600 per person
Min. no. of participants: 10
Coordinator:
Dr. D.R. del Carmen
Tel. No. 536-3138/2444

Cutflower Handling and Storage

Principles of the various handling and storage techniques i.e. harvest maturity, packaging, sorting and grading, pulsing and conditioning use of flower preservatives, storage (dry pack and wet storage techniques) and temperature management.

April 21, 2006
P600 per person
Min. no. of participants: 10
Coordinator:
Dr. D.R. del Carmen
Tel. No. 536-3138/ 2444

Plant Breeding

Micropropagation of *Musa spp.*

Theoretical background and practical application of tissue culture techniques for the propagation of *Musa spp.*

March 27-31 (5 days)
P8000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit
Dr. O.P. Damasco

Nursery and Field Establishment of Tissue Cultured Bananas

Theoretical background and practical aspects of growing tissue culture bananas that include potting out, nursery establishment, field planting and cultural management practices in growing tissue cultured bananas. Useful for nurserymen and banana growers/farmers. Includes training kit with *in vitro* meriplants and established seedlings ready for field planting.

By arrangement (1 day),
whole year round with mini-
mum no. of participants
P3000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit
Dr. O.P. Damasco

Hybrid Papaya Production

Theoretical and practical aspects of producing Sinta, a hybrid papaya; include seed handling, pricking, planting, cultural management, harvesting, postharvest practices and marketing; also features trip to a papaya growing area or to a participant's possible planting site for evaluation and planting recommendations.

April 5-7
P6000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit
Dr. P.M. Magdalita

Organic Production of Vegetable Crops

Theoretical and practical aspects of producing vegetable crops under organic conditions that cover preparation of organic fertilizer, pesticides, proper cultural management practices and suitable farming systems, also includes an exposure trip to organic vegetable production areas.

May 31-June 2
P6000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit &
Dr.R.G. Maghirang

Corn Seed Production

Theoretical and practical aspects (with some field exercises) of producing high quality corn seeds that include planting, cultural management, harvesting, processing, post-harvest practices, marketing and seed distribution. This training is a requirement for the accreditation of IPB-UPLB hybrid and open pollinated corn seed growers

April 26-28
P7000 per person
Min. no. of participants: 5
Coordinators:
Extension Unit
Mr PH Manguiat

Seed Production of Vegetables

Theoretical and practical aspects of vegetable production for seed purposes that covers site selection, planting, cultural management practices, harvesting, postharvest handling and storage, economics of seed production and marketing. Includes an exposure trip to other neighboring research institutions. This training is a requirement for the accreditation of IPB-UPLB vegetable seed growers.

May 8-12
P10,000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit
Dr. J.O. Narciso

Seed Production of Peanut

Theoretical and practical aspects of peanut seed production which includes planting, cultural management practices, harvesting, postharvest handling, storage, economics of seed production and marketing. Includes an exposure trip to Bureau of Plant Industry-Economic Garden and other neighboring research institutions. This training is a requirement for the accreditation of IPB-UPLB

May 16-19
P10,000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit
Dr.R.M. Abilay

SNAP Hydroponics

Theoretical and practical aspects of hydroponics with emphasis on setting-up and running a SNAP hydroponics system; identifying different nutrient deficiency and toxicity symptoms and understanding the basic concepts in plant nutrition that are relevant to hydroponics vegetable production; and fertilizer formulation. Includes training/starter kit nutrient solution, established seedlings and styrofoam box and cups.

April 19-21
P6000 per person
Min. no. of participants: 6
Coordinators:
Extension Unit &
Mr. P.J.A. Santos

Appreciation of SNAP hydroponics in vegetable production

Appreciation of utilizing SNAP hydroponics that includes cultural management and economics of vegetable production through SNAP hydroponics system. Includes training/starter kit nutrient solution, established seedlings and styrofoam box and cups.

By arrangement (1 day)
whole year round with
minimum of six (6) participants
P3500 per person
Coordinators:
Extension Unit
Mr. P.J.A. Santos

Prices subject to change.

IPB Telephone Nos. (049) 536-2298; 2512; 2697; 3304; 3528

Fax: 63 (049) 536-3438

Horticulture

Plant Propagation and Nursery Management of Economic Plants

Seed selection, seedling and seedbed preparation, asexual propagation, and establishment and maintenance of a nursery

May 13-17
P2,000 per person
Min. no. of participants: 5
Coordinator:
Dr. D.E. Angeles
Tel. No. 536-2448/2478

CROP PROTECTION

Training Course on Sustainable Rice Production

The course aims to equip agricultural technicians and farmer leaders knowledge and skills to initiate or take part and manage sustainable rice production (SRP). It covers orientation on Sustainable Agriculture Participatory Research and Extension Model (SAPREM), participatory rice selection and breeding, bio-organic fertilizer production, pest management, harvesting, processing and storage and project planning and monitoring.

April 25-28 (4 days)
P6,500/person. Fee includes training materials/ handouts, am/pm snacks and lunch
Min. no. of participants: 10
Coordinator: Dr. G.L Magsino
Tel. No. (049) 536-0975
Fax: (049) 536-2409
Email: ncpctvsu@laguna.net

Refresher Course for Pest and Disease Diagnosis and Management in Rice, corn, Vegetables and Other Crops

This 2-week course is designed to educate and upgrade technicians and other field personnel, whose expertise in pest and disease diagnosis are often sought by farmers and crop growers, to develop a multi-disciplinary approach in analyzing and solving on-farm pest and disease problems.

May 15-26 (2 weeks)
P7000 per person. Fee includes training materials/handouts and am/pm snacks.
Min. no. of participants: 15
Coordinators: Dr. G.L. Magsino/Ms. V.P. Justo
Tel. No. (049) 536-0975
Fax: (049) 536-2409
Email: ncpctvsu@laguna.net

Training Course on Nematology

This training aims to provide the participants with the necessary knowledge and skills on the various aspects of nematology and enable them to solve the complex rationally. The course will cover topics on nematode diseases and symptomatology, isolation and extraction techniques, identification, biology and ecology And management strategies. Most of the activities will deal on hands-on field and laboratory exercises, group discussions and interactions. Participants are also required to develop a proposal on the prevention and spread of nematodes in specific situation.

May 22-26 (5 days)
P4000 per person. Fee includes training materials/handouts, and am/pm snacks
Min. no. of participants: 10
Coordinator: Dr. R. A. Zorilla
Tel. No. (049) 536-0959
Fax: (049) 536-2409

Mass Production of *Trichogramma* Parasitoids against Lepidopterous Pests of crops

Trichogramma are very small parasitic wasps which attack the eggs of many lepidopterous insect pests. Trichogramma controls the insect while in the egg stage; effective against the eggs of corn borer, tomato fruitworm, cotton bollworm, sugarcane borers, striped rice stem borer, eggplant shoot and fruit borer, bean leaf folder, cacao pod borer and other lepidopterous insect pests. The field releases of Trichogramma is environment-friendly, economical to use and can be established in the agroecosystem. The course is designed for immediate transfer of the technology (mass production and utilization of trichogramma to interested institutions (private), LGUs and others; consists of lectures and demonstrations on the different species of *Trichogramma*, its life cycle, behavior and how it controls lepidopterous insect pests, host ranges, monitoring of target pests in the field and release strategies against target pests in the field.

April 25-28 (4 days)
P4000 per person. Fee includes training materials/ handouts and am/pm snacks.

Min. no. of participants: 7

Coordinators:

Dr. P.G.Gonzales

Dr. P.A. Javier

Tel. No. (049) 536-2615

Fax: (049) 536-2409

Mass Rearing of Predatory Earwig Against Asian Corn Borer

The earwig, *Euborellia annulata* (Fab.) (Dermaptera: Anisolabididae), is one of the most dominant and effective predators of corn borer in the cornfield. The predator feeds practically on all stages (egg, larvae and pupae) of the Asian corn borer (ACB) and other lepidopterous insect pests. The course is envisioned to equip participants with the broad knowledge on the mass production of earwig for the biological control of ACB. The course consists of lectures and hands-on training on the mass rearing, collection and field releases of earwigs against corn borer.

April 18-21 (4 days)
P4000 per person. Fee includes training materials/ handouts and am/pm snacks.

Min. no. of participants: 7

Coordinator:

Dr. P. A. Javier

Tel No. (049) 536-0959

Fax: (049) 536-2409

Training-Workshop on Identification of Quarantine Pest and Risk Assessment Protocol

The course is designed to train the phytosanitary inspectors of the national and regional plant quarantine services in the diagnosis of insects, nematodes, fungi, bacteria and viruses with special reference to A1 and A2 pests categories. It also provides information services (electronic and hard copy), PRA protocols and data bases. The training is designed for capacity building and human resource development in a field where present identification, deficiencies/constraints hinders our valuable import and export trade. The course will introduce the principles of pest risk assessment, the International Plant Protection Convention (IPPC) protocols and methods of conducting pest risk assessment and quarantine pest simulation and estimation techniques.

April 24-29 (6 days)
P5000 per participant. Fee includes training materials/handouts and am/pm snacks

Min. no. of participants: 10

Coordinators:

Dr. B.F. Cayabyab &

Mr. M.D. Ebuenga

Tel. No. (049) 2615

Fax: (049) 536-2409

Email:

bfcayabyab@yahoo.com

mneb@laguna.net

Butterfly Culture/Rearing for Biodiversity Conservation and Additional Livelihood

The course is designed to transfer the technology on captive breeding/ranching of butterflies. The topics to be covered are: (1) biology, ecology, taxonomy and behavior; captive breeding; butterfly farming and ranching; management of pests and diseases; legal and marketing requirements of captive bred butterflies; host plants (2) Field exposure: familiarization of existing butterflies flora and fauna in the area; field collection of host flora and butterflies; (3) preparation of souvenir items from dead butterflies; restoration of lost body parts; Lepidomosaic art; (4) principles and practices in maintaining butterflies sanctuaries and butterfly houses.

April 27-29; May 25-27 (2-3 days; can be conducted once a month every last week of the month)

P4000 per person. Fee includes training materials/handouts and am/pm snacks.

Min. no. of participants: 10

Coordinators:

Dr. B.F. Cayabyab &

Mr. R.G. Bayot

Tel. No. (049) 536-2615

Email:

bfcayabyab@yahoo.com

Fax: (249) 536-2410

BIOLOGICAL SCIENCES

Introductory Beekeeping

Bee biology, pathology, pollination and management, apiary establishment and product development

April 17-22 (First batch)
May 8-13 (Second batch)
P5,000 per person
Min. no. of participants: 10
Coordinator:

Dr.C.R. Cervancia
Tel. No. 536-2517
09195587920

Short Course on Herbal Medicine

Proper utilization of medicinal plants for primary health care; includes identification and propagation of medicinal plants, proper preparation of herbal products and short lectures on the bases of the healing properties and advances in medicinal plant research. This year, focus of the laboratory work will be on medicinal plant identification, chemotaxonomy, histochemistry and initial detection of its biologically active constituents.

April 18-20
P1,000 per person
Min. no. of participants: 5
Coordinator:

Dr..L.B. Cardenas
Tel. No. 536-2807
Fax: (049) 536-2517
Venue: Rms C-225 &
MBB-14
Institute of Biological
Sciences (IBS) Bldg.

Techniques in the Preservation of Selected Biological Specimens

Collection, preparation and preservation of higher vascular plants (as herbarium specimens), fungi (pickled or dried specimens), birds and mammals (taxidermy), reptiles and amphibians (wet preserved), insects and small arthropods (pinned collection of temporary slide-mounts) and some other Invertebrates will be shown with hands-on exercises. This course will benefit most biology teachers, students and hobbyists.

April 18-21
P1500 per person
Min. No. of participants: 5
Coordinator: Dr. I.L.Lit, Jr
Tel No. (049) 536-2864
Telefax (049) 536-3669
Venue: MNH Bldg., Upper
(Forestry) Campus

Biodiversity for Beginners

Introduction to Biological Diversity and its conservation and the underlying and related concepts and principles, including species richness, evolution and natural selection, systematics/taxonomy, ecosystems, biotic interactions, endangered species, impacts of introduced organisms. Includes lectures on insects and other arthropods, vertebrate wildlife and vascular plants. Field trips to a secondary forest (in Mt. Makiling) and film showings will enhance lectures and discussions. The course is beneficial to high school biology and elementary science teachers, eco-tourism and travel agents, environmentalists and non-biology college

April 24-25
P2000 per person
Min. no. of participants: 5
Coordinator:
Prof. J.C.T.Gonzalez
Tel. No. (049) 536-2864
Telefax: (049) 536-3669
Venue: MNH Bldg.,
Upper (Forestry) Campus

Getting to Know the Spiders

Spiders make up a considerable portion of the Philippine fauna but little is known about them. This course provides basic information on studying, collecting, preserving and identifying spiders through lectures and brief field trip. Target course participants are high school and elementary science teachers, eco-tourism coordinators, college students and hobbyists.

April 10-11
P1000 per person
Min. no. of participants: 5
Coordinator:
Ms. A.L.A.Barrion
Tel. No. (049) 536-2864
Telefax: (049) 536-3669

New Invasive Arthropod Pests in the Philippines

Familiarization and information updates on the taxonomy, biology and ecology of recently introduced insect and mite pests in the Philippines, with emphasis on the buff coconut mealybug infesting coconuts, bananas and other economically important crops, the long leaf beetle also on coconuts and other palms, and the gall wasp of dappap. Brief lectures on the ecology and biogeography of invasive species and perspectives on pest management measures targeting

May 24-25
P1000 per person
Min. no. of participants: 5
Coordinator:
Dr. I.L.Lit, Jr.
Tel. No. (049) 536-2864
Telefax: (049) 536-3669
Venue: MNH Bldg. Upper
(Forstry) Campus

An Introduction to the Scale Insects

Introduction to coccidology or the study of the superfamily Coccoidea, the group which includes all scales and mealybugs. Topics include their general morphology, evolution, taxonomy and field characteristics, general biology, ecology and insights into control or pest management. The course will be beneficial to entomology students, agriculturists, plant quarantine officers and other extension workers.

May 29-31
P3000 per person
Min. no. of participants: 5
Coordinator: Dr. I.L.Lit, Jr.
Tel. No. (049) 536-2864
Telefax: (049) 536-3669
Venue: MNH Bldg., Upper
(Forestry) Campus

The Ex-Tree Challenge: Getting to Know Forest Trees

A crash course on dendrology for non-foresters as well as a refresher course for those with background in forestry. Familiarization with forest trees that will be useful for science teachers, eco-tour organizers, hobbyists, conservation and environment enthusiasts as well as nature lovers and the general public.

April 26-28
P1500 per person
Min. no. of participants: 5
Coordinator:
Dr. M.L.Castillo
Tel. No. (049) 536-2864
Telefax: (049) 536-3669
Venue: MNH Bldg.,
Upper (Forestry) Campus

Getting to Know the Grasses

A crash or refresher course on familiarization with the more common Philippine grasses that will be useful for science teachers, weed scientists, landscape artists, eco-tour organizers, hobbyists, conservation and environment enthusiasts as well as nature lovers and the general public.

April 5-6
P1500 per person
Min. no. of participants: 5
Coordinator:
Prof. A.C.S.Hadsall
Tel. No. (049) 536-2864
Telefax: (049) 536-3669
Venue: MNH Bldg. Upper
(Forestry)Campus Campus

Biotechnology

Basic Electron Microscopy: Sample Preparation Techniques for Biological Specimens

Basic principles of electron microscopy (scanning or transmission or both), electron microscope parts and functions, sample preparation techniques of biological specimen and photomicrography. Includes hands-on technology demonstration.

April 17-21 or 24-28 (SEM or TEM)
5 working days for each

April 17-28 for SEM & TEM

P10,000 per person – Scanning Electron Microscopy (SEM) 5 working days

P15,000 per person – Transmission Electron Microscopy (TEM) 5 working days

P25,000 per person – both SEM & TEM 10 working days

Min. no. of participants: 4

Microbiological Analysis of Water

Lecture and hands-on training to determine the Heterotrophic Plate Count (HPC) of water samples, Most Probable Number (MPN) techniques of determining coliforms, differentiate *Escherichia coli* from other coliform bacteria, detect presence of fecal streptococci and *Pseudomonas aeruginosa*.

May 22-26 (5 working days)

P5000 per person

Min. no. of participants: 4

Microbial Preservation Techniques

Basic concepts and methodologies involved in long term preservation of microorganisms, procedures on how to monitor the viability and stability of the preserved microbial strains; the course consists of lectures and hands-on training.

May 29-30 (2 working days)

P3000 per person

Min. no. of participants: 4

Tissue Culture of Orchids and Banana

Lecture and hands-on training on tissue culture techniques in orchids and banana.

April 3-7 or May 22-26
(5 working days)

P6000 per person

Min. no. of participants: 3

Bio-Organic Fertilizer Production

Introduction to Bio-Organic Fertilizer (BOF) technology, structural and equipment requirement, investment analysis in the setting-up of BOF plant and hands-on training on the mass production of bacterial and fungal inocula.

April 19-21 or May 17-19
(3 working days)
P2500 per person
Min. no. of participants: 5

Detection of Bacterial Pathogens Through PCR

Recent techniques in detection of bacterial pathogens in food, principles involved in PCR techniques, preparation of culture media, extraction of DNA using standard and quick extraction method, PCR, gel electrophoresis and documentation of PCR results.

April 26-28
(3 working days)
P4000 per person
Min. no. of participants: 3

Coordinator : Ms. Lerma L. Moran
Tel. No. (049) 536-1576

All BIOTECH courses may be arranged anytime of the year.

Economics

Summer Program in Economics

An intensive course designed to provide rigorous training in microeconomics, macroeconomics, mathematical techniques and basic econometrics for prospective students wishing to pursue graduate studies in the field of Economics, Agricultural Economics and allied fields; also open to non-economist professionals in the public and private sectors who would like to be refreshed with the rudiments of economic principles and its tools of analysis.

April 3-May 26 (2 months)
8-12 nn; 1-3 pm (Mon to Thurs)
P7,800 (per local participant)
US\$750 (per foreign participant)
Min. no. of participants: 10
Coordinator:
Mr. Rodger M. Valientes
Tel. No. (6349)536-2505
Fax: (6349) 536-3641
E-mail: econ@laguna.net

Agribusiness Management

Master in Management Summer Workshop

Module IA	Mid April - May (one month)
Key Management	P6,000 (local participant)
Tools and Concepts (MTC)	P10,000 (foreign participant)
Module IB	P2,500 per module(non MM-ABM)
Basic Agribusiness	<i>Min. no. of participants:</i> 25
(for MM-ABM applicants)	<i>Coordinator:</i> Dr. DP.T.Depositario
Module II - Accounting (ACT)	Tel. No. 536-2846
Module III - Quantitative Business	
Tools (QBT)	

Time schedule:

Fridays: 1:30 - 7:30 PM (MM-ABM)
 4:00 – 7:30 PM (non MM-ABM)
Saturdays/Sundays
 8:30 - 12:00 nn
 2:00 - 5:30 pm

COMPUTER SCIENCE

Linux A: Linux for Desktop Users

An introduction to the Linux desktop environment and OpenOffice; covers topics such as installing Mandrake Linux 10.1, overview of the Linux file system, the K Desktop Environment (logging in, panel and desktop, programs and documents, the KDE control Center, KDE applications, multimedia, file sharing, printing, reading email, web browsing) the Mandrake control Center, introduction to OpenOffice 2.0 (basics of OpenOffice, word processing with Writer, doing calculations and spreadsheets with Calc, making presentations with Impress)

P1,000 per person
No. of Hours: 10 hrs.

Linux B: Linux for Network Administrators

Focuses on the fundamentals of network and system administration using a Linux platform and covers setting up Linux routers and firewalls for networking, and vital system administration services such as name and dhcp services. Topics include setting up network interfaces and routing under Linux, configuring hardware routers, basic system administration tasks, firewall concepts, Network Address Translation (NAT), setting up of the following: DHCP, secure remote administration and name services; network troubleshooting; system maintenance and other tools and keeping up to date with network security.

P1,000 per person
No. of Hours: 10 hrs.

Note: Each of the courses above should have at least 10 participants before a class begins. Contact persons/coordinators are :

Dr. Vladimir Y. Mariano or Ms. Aurora O. Soriano
Institute of Computer Science, UPLB
Tel. No. (049) 536-2313/2302
Email: vvmariano@uplb.edu.ph
aosoriano@uplb.edu.ph

Communication

Broadcasting Journalism for Community Development

For extension/development workers, broadcasters, farmcasters, information officers and teachers to learn techniques in news gathering, and the basic principles of writing, editing, delivering and evaluating radio news.

April 17-21

P3,000 per person

Min. no. of participants: 10

Coordinator: Ms. MT.B. Osalla

Tel No. (049)536-2433

Planning and Conducting a School-On-The-Air Program

For extension/development workers, broadcasters, farmcasters, information officers and teachers to learn the fundamentals of School-On-the-Air (SOA) production.

May 8-12

P3,000 per person

Min. no. of participants: 10

Coordinator: Ms. C.J Calara

Tel. No. (049) 536-24.33

Radio Drama Production

For extension/development workers, broadcasters, farmcasters, information officers and teachers to be proficient in planning, writing, producing and evaluating a radio drama.

May 22-26

P3,000 per person

Min. no. of participants: 10

Coordinator: Prof.L.L. Vega

Tel. No. (049) 536-2429

Technical Writing and Editing

For information officers in R&D institutions, teachers and publishers to be skilled in technical writing and editing. Focuses on formats, data presentation, abstracting and indexing, stylebooks and references,

May 8-12

P3,000 per person

Min. no. of participants: 10

Coordinator:

Dr. MT.H. Velasco

Web Writing, Content Management and Design

Principles and techniques in web writing and editing, developing and organizing effective web content, design and management.

April 17-21
P5,000 per person
Min. no. of participants: 10
Coordinator: Mr. R.E.de Leon
Tel. No. (049) 536-2511/2448 loc. 209 or 210

Extension Publications Writing and Production

For extension workers, information officers, educators, and media practitioners to learn the basic techniques and principles of writing, editing, layouting, and producing various extension communication materials such as leaflet, newsletter, and primer, among others.

May 13-17
P3,000 per person
Min. no. of participant: 5
Coordinator: Dr. M M Suva
Tel. No. 536-2511 loc. 219

Basic Photography

For amateur photographers, hobbyists, AV technicians, illustrators, media specialists and information officers to learn the basic techniques in camera operation, shooting, processing black and white films, and corrective printing techniques.

April 24-27
P3,000 per person
Min. no. of participants: 10
Coordinator:
Ms. M.O. Moscoso
Tel. No. 536-3356

Visual Media Development

For extension/development workers, broadcasters farmcasters, information officers and teachers to gain knowledge and skills on the principles and techniques in designing, producing, presenting and evaluating low-cost audio-visual materials for communication and education.

May 15-19
P3,000 per person
Min. no. of participants: 10
Coordinator:
Ms. M O Moscoso
Tel. No. (049) 536-3356

COMMUNITY EDUCATION

Job Enrichment Training for Teachers

Dynamics of student learning and understanding the Core Experience, testing and evaluation of learning outcomes, micro-teaching demonstration and classroom management to improve teaching effectiveness and organizational productivity.

May 8-12
P2,000 per person
Min. participants: 10
Coordinator: Dr.R.L.Gabriel
Tel. No. 536-3256

Short Course on Participatory Research and Evaluation

The course will provide participants with knowledge and skills on how to conduct participatory research and evaluation.

May 15-19
P2000 per person
Min. no. of participants: 10
Coordinator: Ms. E.C.Sulabo
Tel. No. 536-3256

Short Course on Participatory Rapid Community Appraisal (PARCA)

The course will provide participants with tools and techniques in conducting rapid community appraisal.

May 15-19
P2000 per person
Min. no. of participants: 10
Coordinator: Dr. F.A.Cruz
Tel. No. 536-3256

HUMAN AND FAMILY DEVELOPMENT

Summer Reading and Writing Readiness Program

Prepares children for reading and writing in the kinder levels.

April 17-May 12
Time: 9:00-11:00 AM
(Mon.-Fri)
P1,200 per person
Coordinator: Prof. MR Dy
Tel. No. 536-5089/2480

Planning of Learning Experiences for Preschoolers

Planning learning experiences for physical-motor, social, emotional and intellectual development of the young

April 17-21
Time: 1:00-5:00 PM
P3,000 per person
Min. no. of participants: 15
Coordinator: Dr. SLC Saguiquit
Tel. No. 536-2480

Basic Clothing Design

Elements and principles of clothing construction, figure measurements, construction of basic patterns and garments.

April 17-28
Time: 1:00-5:00 PM
P 1,000 per person
Min. no. of participants: 8
Coordinator: Ms. MP Ferido
Tel. No. 536-2480

STRATEGIC PLANNING AND POLICY STUDIES

Short Course on Policy Analysis for Local Government Officials

This training aims to enhance the capabilities of the staff of the Local Government Units (LGUs) and other partners in conducting policy analysis. Specifically, it aims to equip the local partners with knowledge and technique for an evidence-based policy analysis. At the end of the course, the trainees would be able to design a municipal ordinance derived from a science-based policy analysis.

May 8-12
P7,500 per person
(inclusive of food
and lodging)
Min. no. of participants: 15

Short Course on the Role of Geographic Information System (GIS) in Local Governance

This training is designed to enable participants to understand and use GIS technology as a planning and decision support tool for effective and efficient local governance. Some applications of GIS in local governance include public safety, fiscal management, agriculture and natural resources management and public service.

April 24-28
P8,500 per person
(inclusive of food
and lodging)
Min. no. of participants: 15

Short course on Data Analysis for Public Decision-Making

This training is designed to enable participants to acquire empirical techniques commonly used in policy decision making. At the end of the training, the participants are expected to generate, transform and use data for public sector decision-making.

April 24-28
P7,500 per person
(inclusive of food
and lodging)
Min. no. of participants: 15

Coordinator: Ms. Agnes R. Chupungco
Tel. No. (049) 536-3637; 536-3455
Email: agrc23@yahoo.com

Research Project Management

Training-Workshop on R&D Proposal Preparation

Aims to equip participants with basic skills in R&D proposal

5 days
P5,000 per person
Min. no. of participants: 10

Training-Workshop on Goal Oriented Project Planning Focusing on Logical Framework for R&D Projects

Aims to enable participants to construct logical framework for an identified R&D project as aid to a work plan using objective-oriented and participative situational analy-

5 days
P5,000 per person
Min. no. of participants: 10

Training-Workshop on Research Project Implementation and Management

Aims to equip participants with managerial knowledge and skills in research project implementation and management particularly in supervision and delegation, conflict management, organizational communication, management of change, and leadership.

5 days
P5,000 per person
Min. no. of participants: 10

The above courses may be arranged anytime of the year.

Coordinator: Ms. Lily O. Borlaza

Tel. No. (049) 536-5326

Fax: (049) 536-3341