**Cataloguing IPPC-related university courses**

**Background**

At CPM-7 (2012), a draft IPPC Communication Strategy was presented for general comments.

In response to this, Finland submitted comments and suggested that the IPPC Secretariat, as part of that strategy, consider developing a university course regarding the IPPC and its activities. According to this suggestion, the course would provide students with an overview of IPPC basic principles and phytosanitary regulatory concepts.

At SPG (2012), this suggestion was discussed and the role of university courses was received positively. Some pointed out difficulties in getting participants, high costs for the course, use of copyrighted materials, the challenge of keeping a course up to date and possibility of controversial interpretations by teachers. The SPG emphasized the value of developing a stronger relationship between the IPPC and academia, and encouraged building on existing courses on this topic. The SPG concluded that the Capacity Development Committee (CDC) should catalogue IPPC-related university courses currently available worldwide.

**IPPC-related university courses**

The IPPC Secretariat, in collaboration with the CDC, conducted a survey of the IPPC-related university courses including their costs and languages. In regard to the survey, the online search was made by entering the key words and word combinations in common search engines. The search was conducted only in English. In this regard, the results of search were not exhaustive because many universities in non-English-speaking country may not completely describe detailed information of all courses on their websites in English version.

In addition to the online search, the IPPC Secretariat sent the message to all IPPC contact points, requesting information about university courses in their country. Responses were received from the following 8 contacting parties: Australia, Canada, Japan, Luxembourg, Saint Kitts and Nevis, São Tomé and Príncipe, Trinidad and Tobago, United State of America. Among these responses, some countries informed us that there is no existence of the course in their countries.

The compiled list is provided in the attachment. The courses are being identified based on whether they have direct links with NPPOs and/or have specific coursework that address the IPPC.

The following is a brief summary of cataloguing IPPC-related university courses:

* Some courses are being developed in collaboration with the universities and NPPOs as an important education, outreach and recruitment program. In such cases, the universities are able to deliver new courses to their students with less investment and more factual information than if the courses are developed without NPPOs support. In addition, many students work with NPPOs as interns or have been hired in NPPOs through these courses.
* A course is delivered in collaboration with the university, NPPO and international organizations. The course is intended for plant quarantine officers to improve their phytosanitary capabilities.
* Some courses are flexibly delivered online, which allows students to complete the courses without leaving their homes or workplaces.
* Some courses are not dedicated solely to the IPPC and are covered the IPPC as one component of the WTO/SPS Agreement or international food laws and regulations.
* Some courses are delivered by teachers who have been working in or retired from NPPOs.
* A course is participated only in case of eligible number of successful applications. The students’ application and tuition fee are covered by the scholarship programme sponsored by the government.
* Tuition fee is quoted on a course and/or annual basis and may change depending on domestic or international students.
* No course free of tuition fee is identified.
* The existence of courses available in other languages may not be confirmed.

The SPG is invited to:

1. *note* the catalogue of IPPC-related university courses, and
2. *consider* next steps and if possible *recommend* some suggestions to the Bureau and CPM.

**Attachment**

**IPPC-related university courses**

| **Location** | **University** | **Title course** | **Primary themes** | **Language** | **Tuition fee per course for international student** | **Annual Tuition fee for international student** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Australia,Perth | Murdoch University | Policy Framework Obligations | Framework of IPPC | English |  | 21,960 USD(23,500 AUD) | * Developed in collaboration with NPPO
* Online
 |
| Plant Biosecurity in Practice | Overview of ISPM | English |  |
| Detection and Diagnostics | Surveillance, Diagnostic methods | English |  |
| Australia, Adelaide | University of Adelaide | Risk Assessment | PRA | English | 3,450 USD (3,687 AUD) | 27,570 USD(29,500 AUD) |
| [Invasion Biology: Foundations of Biosecurity](https://cp.adelaide.edu.au/courses/details.asp?year=2013&course=104967+1+3320+1) | Invasive species | English | 3,450USD (3,687 AUD) |
| [Biosecurity Plant Pests: Weeds](https://cp.adelaide.edu.au/courses/details.asp?year=2013&course=104968+1+3310+1) | Weed control | English | 3,450 USD (3,687 AUD) |
| Australia, Darwin | Charles Darwin University | Community Engagement for Biosecurity  | Role of community in pest management | English |  | 18,090 USD(19,360 AUD) |
| Australia,Brisbane | [University of Queensland](http://www.uq.edu.au/) | [Biosecurity Plant Pests: Invertebrates](http://www.uq.edu.au/study/course.html?course_code=BIOL7013) | Diagnostic methods of invertebrates | English | 3,590USD(3,840 AUD) | 28,790 USD(30,800 AUD) |
| Australia,Melbourne | [La Trobe University](http://www.latrobe.edu.au/) | Biosecurity Plant Pests: Pathogens | Diagnostic methods of pathogens | English |  | 24,280 USD(25,980 AUD) |
| Hungary,Keszthely | [University of Pannonia](http://englishweb.uni-pannon.hu/) | Master course on Plant Protection | Several subjects of plant protection (Diagnostics, Regulation, Pest management etc.) | English | n/a | n/a | * Tuition fee sponsored by the government
 |
| Japan,Tokyo | Hosei University | Plant Clinical Science | Framework of biosecurity regulations (IPPC, Plant protection act etc.) | Japanese |  | 10,710 USD(1,071,000 Yen) |  |
| **Location** | **University** | **Title course** | **Primary themes** | **Language** | **Tuition fee per course for international student** | **Annual Tuition fee for international student** | **Notes** |
| NZ,Palmerston North | [Massey University](http://www.massey.ac.nz/massey/home.cfm) | [Understanding Plant Protection](http://www.massey.ac.nz/massey/learning/programme-course-paper/paper.cfm?paper_code=285201&paper_offering_id=1187709&study_year=2013)  | Biology of plant pests for management and control | English | [2,630 USD (3,212.5 NZD)](http://www.massey.ac.nz/massey/learning/programme-course-paper/paper.cfm?paper_code=285201&paper_offering_id=1187709&study_year=2013) | 22,250 USD(27,150 NZD) | * Online partially
 |
| [Controlling Plant Pests and Diseases](http://www.massey.ac.nz/massey/learning/programme-course-paper/paper.cfm?paper_code=285301&paper_offering_id=1190115&study_year=2013) | Pest control | English | [2,630 USD(3,212.5 NZD)](http://www.massey.ac.nz/massey/learning/programme-course-paper/paper.cfm?paper_code=285201&paper_offering_id=1187709&study_year=2013) |
| NZ,Christchurch | [University of Canterbury](http://www.canterbury.ac.nz/) | [Issues in New Zealand Biosecurity](http://www.canterbury.ac.nz/courseinfo/GetCourseDetails.aspx?course=BIOS201&occurrence=13S2(C)&year=2013) | Biosecurity regulation, administration and operations | English | 2,300 USD(2,800 NZD) |  |  |
| NZ,Christchurch | [Lincoln University](http://www.lincoln.ac.nz/) | [Plant Pest Management](http://www.lincoln.ac.nz/Course-Page?CourseCode=PLPT%20203) | Pest management | English | 2,820 USD(3,323 NZD) | 26,740 USD(32,619 NZD) |  |
| Spain,Barcelona | [Universitat Oberta de Catalunya](http://www.uoc.edu/portal/en/index.html) | [International Agri-Food Policy](http://studies.uoc.edu/en/postgraduate-courses/food-systems-culture-society/international-agri-food-policy/presentation) | Role of food safety regulations (IPPC, Codex, OIE) | English | 4,000 USD(3,000 Euro) |  |  |
| Trinidad and Tobago,St. Augustine | [University of the West Indies](http://sta.uwi.edu/) | UWI Regional Plant Quarantine Officer Training: Principles and Procedures Course | ISPM, Phytosanitary inspection procedures | English | 2,300 USD |  | * Intended for plant quarantine officers
 |
| [Global Phytosanitary Issues and their Application](http://sta.uwi.edu/resources/documents/facultybooklets/FoodAgriPostgrad.pdf) | Role of plant protection officer and IPPC, invasive alien species | English | 363 USD |  |  |
| USA,Athens | [University of Georgia](http://www.uga.edu/) | Diagnosis and Management of Plant Diseases | Diagnosis and Management of Plant Diseases | English | 2,802 USD | 23,246 USD | * Developed in collaboration with NPPO
 |
| USA,Gainesville | [University of Florida](http://www.ufl.edu/) | [Challenges in Plant Resource Protection](http://dpm.ifas.ufl.edu/plant_pest_risk_assessment/documents/PPRAM_2011syllabus.pdf) | Overview of IPPC, NPPO and ISPM | English |  | 28,548 USD | * Developed in collaboration with NPPO
 |
| USA,Newark | [Rutgers University](http://www.rutgers.edu/) | Plant Biosecurity Issues and Technologies  | Plant biosecurity  | English |  | 27,523 USD | * Developed in collaboration with NPPO
 |
| USA,State College | [Pennsylvania State University](http://worldcampus.psu.edu/degrees-and-certificates/homeland-security-agricultural-biosecurity/costs)  | [Plant Protection: Responding to Introductions of Threatening Pests and Pathogens](http://agsci.psu.edu/elearning/courses/agbio-802/syllabus) | Plant biosecurity, plant disease, regulations | English | 2,325 USD | 25,340 USD | * Online
 |
| **Location** | **University** | **Title course** | **Primary themes** | **Language** | **Tuition fee per course for international student** | **Annual Tuition fee for international student** | **Notes** |
| USA,North Carolina | [North Carolina State University](http://www.ncsu.edu/) | [Challenges in Plant Resource Protection](http://www2.acs.ncsu.edu/reg_records/crs_cat/ENT.html#ENT 450) | Regulatory aspects of plant protection  | English | [2,707 USD](http://www.fis.ncsu.edu/cashier/tuition/ugtuition.asp) | 19,493 USD | * Developed in collaboration with NPPO
 |
| [Fundamentals of (Pest) Risk Analysis](http://www2.acs.ncsu.edu/reg_records/crs_cat/ENT.html#ENT 460) | PRA | English | [2,707 USD](http://www.fis.ncsu.edu/cashier/tuition/ugtuition.asp) |
| [Weed Science](http://www2.acs.ncsu.edu/reg_records/crs_cat/CS.html#CS414) | Status and fundamentals of weed biology  | English | [2,707 USD](http://www.fis.ncsu.edu/cashier/tuition/ugtuition.asp) |
| [General Entomology](http://www2.acs.ncsu.edu/reg_records/crs_cat/ENT.html#ENT425) | General Entomology | English | [2,707 USD](http://www.fis.ncsu.edu/cashier/tuition/ugtuition.asp) |
| [Principles of Plant Pathology](http://www2.acs.ncsu.edu/reg_records/crs_cat/PP.html#PP315) | Principles of Plant Pathology | English | [2,707 USD](http://www.fis.ncsu.edu/cashier/tuition/ugtuition.asp) |
| USA,East Lansing | [Michigan State University](http://www.msu.edu/) | [International Food Law Online Workshops](http://msustatewide.msu.edu/Programs/Details/2476) : IPPC | IPPC | English | [1,800 USD](http://www.iflr.msu.edu/iflr/workshop_enrollment) |  | * Developed in collaboration with NPPO
* Online
 |
| [International Food Laws and Regulations](http://www.iflr.msu.edu/iflr/courses/InternationalFoodLawsCourse) | International food laws and regulations | English | [2,296 USD](http://www.iflr.msu.edu/iflr/how_to_enroll) |  |