

VIRTUAL MOU SIGNING CEREMONY WITH NATIONAL INSTITUTE OF SCIENCE TECHNOLOGY AND INNOVATION (NISTI)

A virtual signing ceremony was conducted on October 21, 2021 between Prof. Ian Findlay, President and Vice-Chancellor of University of Puthisastra and H.E. Dr. Kuok Fidero, Director General of NISTI for the establishment of academic cooperation between the two organizations.

This MOU aims to cooperate in areas of mutual interest including 1) research and development, 2) Science, Technology, Innovation, IT and health promotion, 3) Science, Technology, Innovation, IT and health education and training, 4) Capacity building, skills development and training, and 3) other priorities as agreed by both parties.

This event was presided over by H.E. Cham Prasidh, Minister of Industry, Science, Technology and Innovation and was attended by the management team from University of Puthisastra and other distinguished guests from the Ministry of Industry, Science, Technology and Innovation and National Institute of Science Technology and Innovation.

During his welcome remarks, H.E. Cham Prasidh also expressed his sincere thanks to this partnership agreement, and he believed this collaboration will become another milestone for the development of Education in Cambodia.

Prof. Ian Findlay also showed his expectation after the signing of this Memorandum of Understanding. In addition, he emphasized how education can change the world, especially STEM education. Prof. Ian Findlay also added that together we can change the future of Cambodia.

The Memorandum of Understanding becomes effective after the signature by both institutions and remains in force for a period of 5 years. This memorandum of understanding will allow both parties to work together, align their goals and create more impact in the education sector.

WHAT'S UP ON CAMPUS

• 18 - 20 NOVEMBER 2021 | WATER FESTIVAL 2021

UP FACULTY OF HEALTH SCIENCE AND BIOTECHNOLOGY WELCOME 1ST GENERATION STUDENTS — BACHELOR OF SCIENCE (RESEARCH)



As Cambodia is becoming more technologically advanced there is an increased need for professionals with a practical scientific background that are able to provide research support in a variety of fields like chemical, pharmaceutical, food-industry, cosmetics, environmental biology, agriculture, forensics, etc.

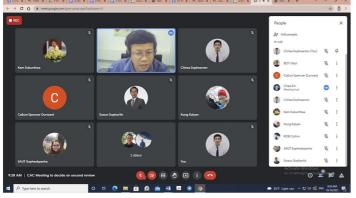
This is the only research degree offered by tertiary education institutions in Cambodia. Now the University of Puthisastra is the FIRST University in Cambodia who bring us a new program, Bachelor of Science (Research).

This program is designed to successfully prepare graduates for a range of occupations and industries in a diagnostic/ research setting in one of the fields of natural sciences, which include work in food testing research, beverage industry, NGOs, public policy, public health research, private research organizations such as NAMRU, IPC, etc., as well as being in pole position for jobs as Cambodia's research capability expands. Furthermore, the degree can serve as a foundation for continuing education in a variety of fields.

The main goals of this program are to produce graduates that understand the fundamental scientific principles and apply their knowledge, skills, and intellect on original research. Graduates' ability to analyze these scientific questions derives from competency in theoretical knowledge as well as hands-on experience with fundamental scientific techniques and a profound understanding of analytical methods.

UP Build the Future Youth Researchers.

CAC HAD REVIEWED AND APPROVED 264 COURSES FOR SEMESTER 1 ACROSS ALL UP FACULTIES



To produce modern graduates which respond to Industry 4.0, UP has integrated 4 main skills all across its curricula. They are research skills, IT skills, critical thinking skills and English. Every single course from every single programs will embed research skills, IT skills, critical thinking skills and English to ensure that UP graduates are ready for their future. The rigorous process started in April 2021 and finished in late October 2021 for all semester 1 courses.

It was started by each faculty's Technical Curriculum Committee called TCC, then each course went through the strict review by Curriculum Advisory Committee (CAC).

It is the first time in history for UP, where all course outlines were revised and integrated with these four important skills to boost its graduates performance and to prepare the graduates to grab the opportunities in the fast growing world, especially the Industry 4.0.

In just 6 months later and after a collective effort from each lecturer, TCC, and CAC members, 264 courses were approved and used for the semester 1 of new school year 2021-2022. The next stage for the team is to now review semester 2 the end of their journey at UP, and its graduates will prosper in the Industry 4.0.

University of Puthisastra is known as the fastest growing universities in Cambodia, which focuses on Health Sciences and Technology, its graduates were well acknowledged by employers of all dimensions from private to governmental sectors, as well as NGOs.

UP's success in top quality learning is recognized by UP being the ONLY Cambodia university listed in THE Rankings - which lists the World's top elite universities.

"RABIES MANAGEMENT AND PREVENTION": CME ORGANIZED BY THE FACULTY OF MEDICINE





On 6th November 2021, Dr. Sum Sovanna presented the management and prevention of rabies. He mentioned that rabies is caused by a RNA virus which uses animals such as cats and dogs as reservoir and can be transmitted to human beings by the infected animal's saliva. Once a person is bitten by a rabid animal, the virus can travel to the brain via nerves to cause a serious inflammation (encephalitis).

It might take 2 weeks to 1 year for a patient to present the symptoms of rabies, but commonly it takes between 1 to 3 months. The symptoms include fear of water (hydrophobia) and air (aerophobia), muscle spasms or seizures, confusion, and hyperactivity. Once these symptoms are present, the patient will unfortunately certainly die. In Cambodia, the diagnosis can be made based on the patient's history of animal bite/scratch and the mentioned symptoms. Bitten skin biopsy and PCR test for the virus or even post-mortem analyses can help to make a definitive diagnosis.

Dr. Sum Sovanna added that the only cure is to get promptly rabies vaccination with or without specific immunoglobulins, depending on the WHO category. The vaccine can be given as a 3-dose prophylaxis (recommended only in high-risk individual such as vets, live animal sellers and children) or in 5 doses post-exposure. WHO expects that by 2030, no human being will die of this terrible disease. 81 participants (doctors, nurses, and medical students) joined the online CME via the Google Meet platform and asked many questions and clarifications.

The Faculty of Medicine thanks Dr. Sum Sovanna for sharing his knowledge in the field.

COVID-19 3RD DOSE VACCINATION CAMPAIGN LAUNCHES AT UP



The third-dose Covid-19 vaccination Campaign launched on November 13, 2021 at University of Puthisastra (UP) organized by SOMA Group to ensure that all of her staff are fully vaccinated. While also helping to reduce the spread of the virus, this campaign also helps reducing the consequence of critical illness due to the covid-19.

UP Staff are very grateful to SOMA Group and UP Leadership team for making this possible. UP continue to work hard to ensure that our campus continues to provide a safe environment for our students, staff and lecturers.

FACULTY OF MEDICINE: AIRWAY MANAGEMENT AND INTUBATION, CHOKING AND LUMBAR PUNCTURE MANIKINS READY FOR SIMULATION PRACTICE









The Faculty of Medicine is preparing to bring the simulation practice back after the long pause due to the COVID-19 pandemic. The manikins are in place now for our MD students to practice with in the upcoming months through our Pre-Hospital Training Program. The products are delivered directly from the USA, and include:

Airway and Intubation Manikins (adult and child), which will allow the students to perform advanced airway management and help them to acquire the right technique and maneuvers to free the airway in seriously ill patients. The manikins will also enable the students to perform the intubation sequences and to learn to intubate orally and nasally the patient. The manikins have also the function to manipulate the tongue swelling in case of severe anaphylaxis, and to manage laryngospasm.

Choking manikins will allow the students to practice, feel and understand the Heimlich manoeuver in case of choking, that might accidently happen anywhere. The set of manikins comes with round and square choking pieces, reproducing both easy and difficult case scenarios.

The lumbar puncture manikins will allow the students to practice the spinal tape to obtain cerebrospinal fluid for analysis and to measure the opening pressure, especially in case of meningitis. Students will learn how to perform the proper lumbar puncture technique in both lateral decubitus and sitting position. The manikins allow to feel the loss of resistance when the needle is in the right place. The clear cerebrospinal fluid or blood-stained fluid will drain out so that the students will perceive the different scenarios/conditions. More manikins are on the way to the Faculty of Medicine to strengthen our MD students' skills in the pre-hospital training before being exposed to the real patients in the hospital setting.

IMPORTANT AWARD FOR ASSISTANT PROFESSOR DR ADITH VENUGOPAL (DENTISTRY)



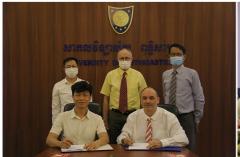
We would like to congratulate Dr. Adith Venugopal (orthodontist) for being granted the Fellowship of the Faculty of Dental Surgery of the Royal College of Surgeons of England (FDSRCS).

This Fellowship is the pinnacle of membership of the Faculty of Dental Surgery of the Royal College of Surgeons (RCS). The award of Fellowship by Assessment to an RCS member is an honour merited by breadth and depth of achievement in dental surgery and denotes the esteem in which a

recipient is held by their peers. Also, one of Dr Adith Venugopal's recent papers on Osler Weber Rendu syndrome/ Hereditary Hemorrhagic Telangiectasia [HHT] has been recently accepted in the British Medical Journal (BMJ) with an impact factor of 39.89. BMJ is ranked 5th amongst the 165 journals in general and internal medicine and it is considered as one of the most influential and respected general medicine journals in the world. We are very grateful to Dr Adith and Dr Anand who have been publishing many papers in the past two years.

Congratulations Dr Adith Venugopal, BDS, MS, PhD, FDSRCS (England), MFDS RCPS (Glasgow), MDTFEd, FICD, FPFA.

THE UNIVERSITY OF PUTHISASTRA AND ONE-2-ONE CAMBODIA HAVE AGREED TO RENEW THE MEMORANDUM OF UNDERSTANDING







On October 21, 2021, the renewal Memorandum of Understanding was signed by Prof. Ian Findlay, President and Vice-Chancellor of University of Puthisastra and Mr. Ly Huy, National Director of One-2-One Cambodia. This Memorandum of Understanding will enable UP students from the Faculty of Dentistry to participate in clinical dental practice at dental project sites in One-2-One Cambodia. This still remains a great opportunity for UP's dental students to learn to engage in volunteer programs to put what they learn in the classroom into real practice, as well as to gain more skills, such as teamwork and communication skills.

The event was attended by UP representatives: Prof. Ian Findlay (President and Vice-Chancellor), Prof. Callum Durward (Dean, Faculty of Dentistry), Dr. Soeun Sopharith (Deputy Dean of Dentistry), and Mr. Kol Rotha (Engagement and Partnership Officer) and Mr. Ly Huy (National Director of One-2-One Cambodia). In his welcoming remarks, Prof. Ian Findlay expressed his sincere thanks for One-2-One's contribution in providing opportunities to UP students to learn and acquire new skills that are necessary for their studies and future careers.Mr. Ly Huy also emphasized that UP students are qualified and have potential. One-2-One is happy to welcome UP students to demonstrate their knowledge and skills to help the community, especially in healthcare. He added that currently One-2-One has some project sites including Happy Clinic, Prisons, Schools, and Community settings. One-2-One will look for more opportunities for UP students to develop themselves.

The two institutions also committed to working together in order to maintain and promote the quality of education in areas such as dentistry.

ONLINE OSCE EXAM



UP Faculty of Pharmacy prepared the second OSCE for year-5 pharmacy students who will take the national exit exam in the upcoming month. This exam was prepared by using computer-based system for Objective Structured Clinical Examination (OSCE). University of Puthisastra have done a lot works to improve digital education in health sciences and information technology to reach international level, particularly in learning management system and administration system. UP is committed to produce digital graduates with knowledge, skills and good attitudes to serve the Cambodian community. This support helps its graduates to get the highest success rate in the school exit exam and national exit exam.

UP DENTAL STUDENTS PUTTING SMILES ON VILLAGERS' FACES



With support from the Australian NGO AHHA, UP dental students have been making complete and partial dentures for a large number of patients from Phun Nhear Loue District, an hour from Phnom Penh. So far 22 complete and 10 partial dentures have been made for low-income villagers, and 34 more are under construction. Dr Bich Sothea, Clinic Manager and UP coordinator of the project, said that about 12 patients at a time come in one or two days per week. After a check up and completion of other needed treatment (such as extractions, restorations and cleaning) senior dental students set to work making the dentures over the following few weeks. Supervision is provided in the clinic by our own dentists and prosthodontists, and lab work is supervised by Mr Andrew Sinclair, our new Head of Dental Laboratory.

Not only do patients get good dentures, but students are able to fulfill their clinical requirements. Results have been very good so far, and patients' smiles have been transformed. We are grateful to AHHA for supporting this project which will continue to run in the coming months.

THE FACULTY OF MEDICINE CONDUCTED LECTURERS' ORIENTATION



On 1st November 2021, the Faculty of Medicine has welcomed its students to the new Academic Year 2021-2022. In the week preceding the start, Faculty members have presented online to the 65 lecturers the new policies regarding teaching assessment, thesis process, and the new system for student and lecturer attendance (UPERP). The Dean of the Faculty, Prof. Sandro Vento, gave a warm welcome speech, thanking all the lecturers for their contribution to UP cations and made their comments.and asking them to collaborate with the academic team and to use the new technology.

The Registrar, Ms. Rien Samriththyda, presented the new teaching assessment policy. The Deputy Dean for Research, Dr. Chhim Sarath, illustrated the student thesis process and the qualifications needed to be a supervisor. The IT Manager, Mr. Kham Sokheng, presented the new UPERP system for student attendance that will also automatically record lecturers' attendance. At the end of the presentations, the lecturers asked many questions and clarifications and made their comments.



AT THE CESCAM CONFERENCE





The Comparative Education Society Cambodia held its bi-annual conference at Kirirom on the 14th and 15th of October 2021. UP was well represented. Students from Dentistry presented work from their Dentistry final year thesis; Dr Chea Sin presenting a paper on "The experience of emergency online learning for students at a private HEI in Cambodia" with co-authors Dr Richard Huijbregts, Ms Tun Sreypeov, Mr Ouk Vontanak, Ms Lynette Bayley, Dr Kong Kalyan and Dr Tineke Water; and Ms Eng Muyngim presented a paper on "The experience of having to rapidly adopt to online learning for teachers at a private HEI in Cambodia: A hermeneutic phenomenological study" on behalf of the other researchers Mr Hoeur Sethul, Ms Saut Sopheakpanha, Mr Boy Vibol, Ms Eron Smith, Mr Rob Collins and Dr Tineke Water.

Ms Eng Muyngim was a keynote emerging research speaker at the opening of the conference and her discussion around research and education being underpinned by a curiosity and entrepreneurial mind set was taken up as a theme for the rest of the conference. Associate Professor Tineke Water moderated a panel discussion on building research ecosystems. The main themes that emerged during this conference was collaboration; moving to entrepreneurial ways of thinking in education; a spirit of respect and valuing excellence in Khmer Scholarship and language; decolonising academia and research; and the opportunities that education and research offers moving into the future and the vision that MOYES has in supporting this.

FACULTY OF PHARMACY CONDUCTED ONLINE PHARMACEUTICAL CLERKSHIP AT PPM ENTERPRISE

Students interested in science and medicine have the opportunity to choose the Healthcare and Pharmaceuticals field. These types of placements offer students a glimpse of what the healthcare industry looks like in their country, what challenges it faces, and what solutions it has provided. Faculty of Pharmacy (FoP) conduct online pharmaceutical clerkship training for 90 pharmacy students generation 6 that present PharmaProduct Manufacturing (PPM), this is a great topic for pharmaceutical students that can help them to understand the production line, quality control, the intricacies of this evolving and demanding industry.

The general clerkship objective in pharmaceutical industry are:

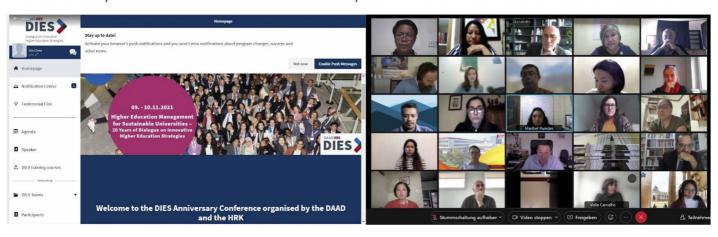
- Put students into practice, to carry out professional responsibilities.
- Put students into direct contact with reality.
- Familiarize students with professional activities and practices.

Specific clerkship objective in pharmaceutical industry are:

- Pharmaceutical culture
 - o Identify the functions and roles which industrial pharmacists can occupy.
 - o Understand the tasks which responsible pharmacists do.
 - o Master criteria of batch liberation.
- System of integrated management
 - o Define: Quality GMP norms ISO Calibration (qualification) and validation;
 - o Recognize the functions and roles of quality assurance;
 - o Identify the roles and functions of employees who occupy different posts;
 - o Recognize the essential roles of control laboratory.
- Procedure and management of pharmaceutical production
- o Describe production procedure: procurement, planning of fabrication and control, control in process;
- o Understand products, procedure, fabrication equipment of dry forms (Tablet, capsule, sachet, suppository ...), and liquid;
- o Identify advantage of validation and machinery calibration (qualification);
- o Distinguish and recognize the conditioning materials;
- o Control circuit of materials until becoming finished products by explaining all activities and essential stages: forecast, order, storage, control, fabrication, liberation;
- o Establish organigram of pharmaceutical establishment.



DR CHEA SIN, DEAN OF FACULTY OF PHARMACY, JOINED DIES' 20TH ANNIVERSARY CONFERENCE



As one of the alumni of German's Scholarship for International Dean Course's Southeast Asia, Dr Chea Sin was invited to join the 20th anniversary of the DIES Programme. The German Academic Exchange Service (DAAD) and the German Rectors' Conference (HRK) jointly hold the 20th anniversary conference with the title of "Higher Education Management for Sustainable Universities – 20 Years of Dialogue on Innovative Higher Education Strategies (DIES)". The conference took place online on 9/10 November 2021 and funded by the German Federal Ministry of Economic Cooperation and Development (BMZ) the Dialogue on Innovative Higher Education Strategies.

The programme was jointly established by the DAAD and the HRK in 2001 to facilitate the international exchange on innovative approaches to higher education management and to strengthen the management capacities of universities in developing and emerging countries. Its 20th anniversary is a welcome occasion to look back on what has been accomplished over the course of the last twenty years, but – even more importantly – also to look ahead: what are the future challenges of higher education management globally? How can higher education management contribute to the establishment of sustainable universities and how can the DIES programme contribute and support these efforts?

The event aims to bring together DIES partners and alumni from the DIES partner regions and Germany.

UP FACULTY OF HEALTH SCIENCE AND BIOTECHNOLOGY — LABORATORY SCIENCES DEPARTMENT ORGANIZED A SEMINAR "RAISING AWARENESS OF HEMOPHILIA"



On Friday, 05th November 2021, The Department of Laboratory Sciences, the University of Puthisastra organized a seminar under the topic of "Raising Awareness of Hemophilia" via an online platform (Google Meet). The honor invited speaker of the seminar was Mr. SEM Samey, the Laboratory Officer of National Pediatric Hospital, Phnom Penh with Mr. Ouk Sok sereivotanak, Director of Laboratory Science, the University of Puthisastra as the facilitator. The seminar was organized with three main objectives which are to raise the awareness of Hemophilia. Those three main objectives are:

- Is Hemophilia Hereditary?
- Can Hemophilia Cause Death?
- What to do if you suspect you have Hemophilia?

After the seminar ended, all participants have learned and gained a lot of knowledge and experience from our invited speaker as well as from other participants related to Hemophilia.

UP FACULTY OF HEALTH SCIENCE AND BIOTECHNOLOGY — LABORATORY SCIENCES DEPARTMENT ORIENTATION FOR THE NEW SEMESTER ACADEMIC YEAR 2021-2022





Welcome Academic Year 2021-2022!

On 01 November 2021, the Department of Laboratory Sciences, University of Puthisastra conducted the Orientation Lecturer and student in Semester 1 of the academic year 2021-2022regarding UP's policies towards the lecturer and students, UPerp- Lecturer and Student Attendance system, UPOP Moodle, and teaching methodology. This orientation also mainly focused on the course outlines and assessment plans of each course, classes are ready on the campus of UP, and as well as Clerkship/Internship Program.

On 30 October 2021, The Department of Laboratory Sciences, University of Puthisastra conducted a Lecturer Orientation session regarding UP's policies, UPerp- Lecturer and Student Attendance system, UPOP Moodle, and teaching methodology. This orientation also mainly focused on the course outlines and assessment plans of each course.

The orientation was assisted by the participation of The Department of Laboratory Sciences' Director, Registrar Office, HR Officer, staff, lecturers, and students.

STUDENT WEBINAR SERIES FOR DENTAL STUDENTS STARTS AGAIN









This semester UP will host another series of clinical webinars for dental students featuring local and international top speakers. The series is a continuation of the webinars from last semester, which were attended by dental students from all dental schools in Cambodia. This semester the first in the series was by Dr Geoff Borlase, senior lecturer at Sydney University. Dr Geoff is a Maxillofacial Prosthodontist, who in the past has been a regular visitor to Cambodia where he has run courses on complete dentures at IU and UP. Apart from Australia and Cambodia, he also lectures in Fiji and Jamaica. The webinar (part 1) covered the first stages of construction of complete dentures, with examples from Cambodia. During the lecture, Dr Geoff emphasized the importance of taking good impressions, and how to achieve this.

The lecture included several very informative videos, and was attended by over 100 students from UP and other dental schools. We are grateful to Dr Geoff and look forward to part 2 which he will give after the water festival. The topic is particularly relevant, as now many students are making their own complete dentures, and the webinars are providing good revision to complement the excellent teaching from our own prosthodontists, Dr Soeurn Visal and Dr Sreng Rithy.

PHARMACY STUDENTS START CONDUCTING CLERKSHIP AT HOSPITAL AND INSTITUTION IN PHNOM PENH



Pharmacy education in Cambodia has been changed in recent years. Pharmacy students need more practices and skills which come from direct interaction with patients, health care providers and industrial pharmacists. To achieve this, students need more effective courses and clerkships. Faculty of Pharmacy (FoP), University of Puthisastra (UP) has designed a clerkship orientation for pharmacy students to guide, educate, and train the students before they start doing clerkship in the field. This clerkship is divided into 3 parts that focus on real practices in Hospital Pharmacy in year 3, Medical Laboratory in year 4 and Pharmaceutical Industry, Quality Control, Pharmacy Management, and Traditional Medicine in year 5.

For the clerkship places are location around Phnom Penh such as: For Hospital Pharmacy and Medical laboratory Clerkship

- Preh Angdoung Hospital
- National Pediatric Hospital
- Preh Ketomealea Hospital
- Khmer-Soviet Relation Hospital
- Phnom Penh municipal Hospital
- Cambodia-China Kosamak Relationship Hospital
- Cho Ray Phnom Penh Hospital

For Pharmaceutical Industry, Quality Control, Pharmacy Management, and Traditional Medicine

- PharmaProduct Manufacturing (PPM)
- Chea Chamnam Laboratorie Co., Itd (CMP)
- National Health Products Quality Control Center (NHQC)
- Consumer Protective Competition and Fraud Repression Directorate-General (CCF)
- Central Medical Store (CMS)
- National Center of Traditional Medicine (NCTM)
- Department Drug and Food (DDF)

We sincerely hope all pharmacy students could learn and achieve the hospital, laboratory and industrial experiences that were imparted on interns. Well qualified and experienced preceptors at clerkship place will help them to enter their choice of specialty, to continue successfully in their practices and to meet their responsibilities as a health care practitioner to patients and the society.

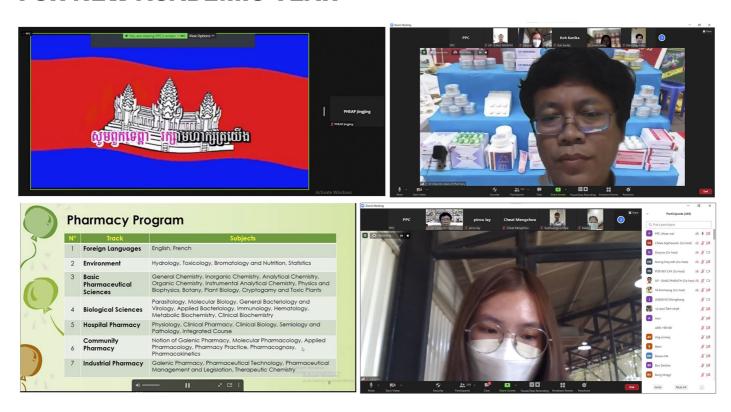
UP, USAID AND PACT WORKSHOP ON SUPPORTING WOMEN AND YOUNG PEOPLE IN RESEARCH



UP hosted the beginning of the USAID/PACT women mentors' program with a panel discussion with Ms. Lody Peng, Deputy Chief of Party, PACT Cambodia; Ms. Chanvoitey Horn, Masters student at Durham University, Majoring in Msc Defense, Development and Diplomacy; and Ms Peng Lody, Ms Eng Muyngim UP researcher discussing the importance of including and supporting women and young people in research.

The main themes were including women's perspectives in research, education and policy making to provide different solutions to unique problems. The panellists and new mentors for the program shared their insights, along with audience participation.

ORIENTATION FOR PHARMACY LECTURERS AND STUDENTS FOR NEW ACADEMIC YEAR



Academic success is very important for students, schools, universities and communities. University needs to support a range of resources and services to help students achieve their goals. Orientation program is one of the most common intervention that impact students' retention and success rates regardless of gender, age, major, and placement score, and employment status. Faculty of Pharmacy (FoP) of University of Puthisastra (UP) regularly conduct the orientation programs for lecturers and students at the beginning of each semester. COVID-19 pandemic has dramatically changed the ways students learn. Online delivery is the most-used method during this current situation.

On the 31st of October 2021, Faculty of Pharmacy, University of Puthisastra (UP) conducted semester I orientation sessions for all pharmacy lecturers and students, with the participation from Dr. Chea Sin (Dean of Faculty of Pharmacy), representative from registrar office, student affairs office, pharmacy faculties, lecturers, and staffs. The orientation objectives are to guide UP pharmacy lecturers and students about (1) the preparation for new semester, (2) the strengthening of current assessment policy and related policies, (3) the updates about university requirements, (4) the payroll process, (5) the student career pathways, (6) study program, laboratory and clerkship/internship activities.

These orientations play a very important role for students and lecturers to achieve their goals without a waste of time.

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