



UP VOICE

The Official Newsletter of the University of Puthisastra (UP)

THE VISIT OF THE JUNTENDO UNIVERSITY, JAPAN TO THE UNIVERSITY OF PUTHISAstra



On September 10th, 2024 the Department of Clinical Laboratory Technology of Faculty of Medical Science of Juntendo University from Japan has come to study tour and visit the Faculty of Health Sciences and Biotechnology of University of Puthisastra.

The delegate team and 10 students led by Prof. Shigeki Misawa of Juntendo University came to study tour and visit the Faculty of Health Sciences and Biotechnology of the University of Puthisastra with the purposes below:

- To discuss the possibility of future exchanges between the two Faculties.
- To discuss the draft MoU between the two Faculties.
- Considering class observations and discussions as student exchanges between the two Faculties.
- Cultural exchange between Cambodia and Japan.

Dr. Sushila S KRISHNASWAMY, Director of Health Sciences and Biotechnology would like to thank the Faculty of Medical Science of Juntendo University for coming to visit the University of Puthisastra with a great chance to allow students and student share knowledge and experience together, have a fun time and explore network together.

DENTAL STUDENTS EXCHANGE VISIT TO UNIVERSITAS INDONESIA (UI)



Recently, the Faculty of Dentistry at the University of Puthisastra sent three students on a student exchange visit to Indonesia.

Year 6 and Year 4 students are participating in the Summer Course Program, "Diversity in Dentistry," hosted by the Faculty of Dentistry, Universitas Indonesia, from 9th to 23rd September 2024.

We believe that this exchange program will help build a network of "future leaders" in dentistry who are not only knowledgeable but also possess excellent interpersonal skills to engage with others on a global level. This three-week program emphasizes the importance of understanding and appreciating the diverse cultural backgrounds and personal experiences that can enhance the practice of dentistry.

THE ACCREDITATION COMMITTEE OF CAMBODIA (ACC) AT THE UNIVERSITY OF PUTHISAstra



The University of Puthisastra (UP) is dedicated to becoming a leading university in Cambodia, striving for recognition through both local and international accreditation bodies and prestigious rankings. To maintain its high standards, UP continuously seeks accreditation as part of its commitment to quality education.

UP previously received a full five-year accreditation from ACC in 2019 and is now preparing to apply for another round of accreditation. Therefore, on September 3, 2024, a working group from the Accreditation Committee of Cambodia (ACC) visited UP for a pre-assessment. This visit allowed the ACC committee to review UP's progress and provide valuable guidance to help the university prepare for the final accreditation assessment.

UP has made significant efforts to meet ACC's requirements. The university has enhanced its operations in various areas, including administration, staff management, financial management, and the quality of learning and teaching. Additionally, UP remains focused on effectively implementing its vision and mission to ensure that the institution continues to provide high-quality education to its students.

The Accreditation Committee of Cambodia (ACC) is a professional organization responsible for accrediting higher education institutions. ACC accreditation, demonstrating that a university meets established standards of excellence, is highly regarded by both public and private higher education institutions in Cambodia.

BOOKBRIDGE EXCHANGE PROGRAM IN SRI LANKA



An ICT lecturer recently participated in the prestigious BookBridge Exchange Program held in Sri Lanka, furthering the mission of international academic collaboration and knowledge sharing. During the visit, she had the opportunity to engage with three prominent universities, where not only visited the campuses but also actively contributed to academic development by conducting specialized training sessions for students. The program, designed to enhance intercultural learning and exchange, allowed the lecturer to share her expertise in Information and Communication Technology (ICT) with a diverse group of students. Her training focused on advancing students' skills in technology, while also addressing critical issues such as digital literacy and the role of ICT in modern education.

TRAINING ON MASTERING PROFIT MARGINS IN PHARMACY OPERATIONS: LINKING TO PROFIT AND LOSS STATEMENTS BY SPEAKER: DR. VIRAK KLOTH CHEA, CEO/FOUNDER OF PILLTECH SOLUTIONS CO. LTD. ORGANIZED BY THE FACULTY OF PHARMACY AND PILLTECH SOLUTIONS CO. LTD.



On September 5, 2024, the Faculty of Pharmacy, in collaboration with PillTech Solutions Co. Ltd., continued to hold the third training course with the participation of about 60 pharmacy students.

By the end of this training, participants will be able to:

- Define profit margins and understand their importance for the financial health of a pharmacy.
- Explain how profit margins affect the Profit and Loss (P&L) statement.
- Set profit margins by considering costs, pricing strategies, and market conditions.

UNIVERSITY OF PUTHISAstra ATTENDING THE HIGHER EDUCATION EXPO 4.0

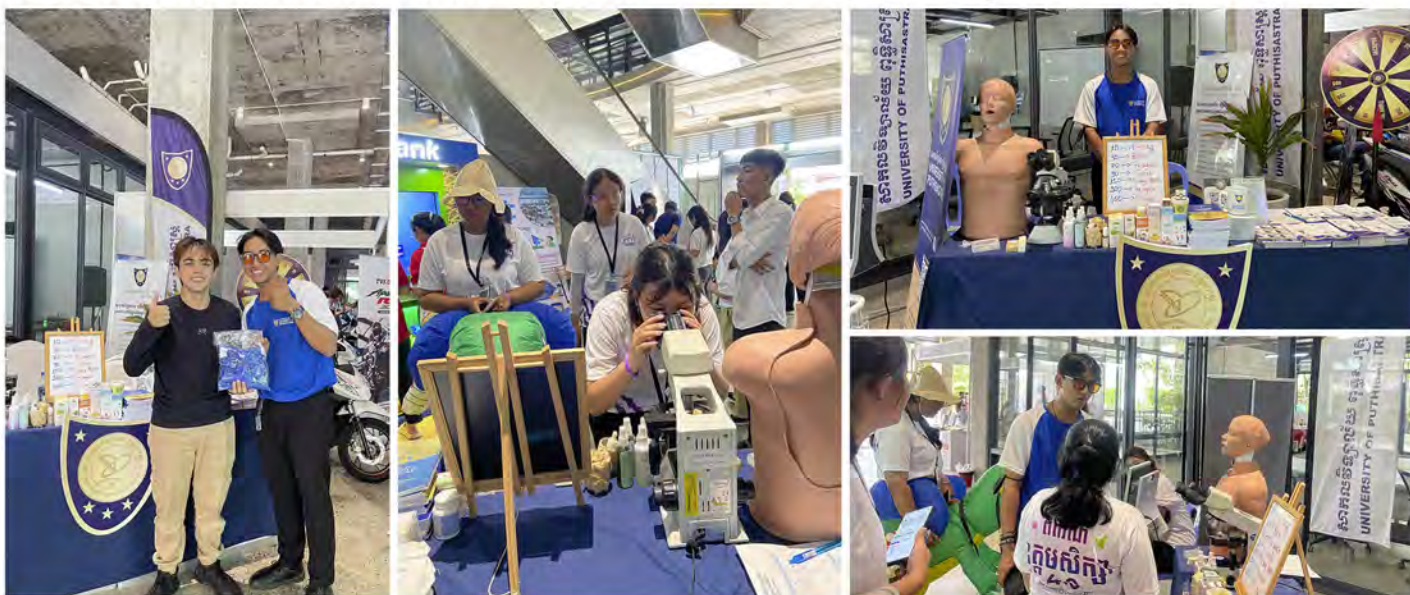


On September 7, 2024, the University of Puthisastra participated in the Higher Education Expo 4.0 held at the Connexion Building in Koh Pich City. The Higher Education Fair aims to entertain, inform, and expand the understanding of high school students so they can make informed decisions about their future university studies. This program helps students "pursue their dreams" in life with confidence.

In addition, university staff showcased various products created by students and provided guidance to high school students interested in pursuing higher education.

They offered valuable advice on how students should prepare for and succeed in the national examinations, particularly those interested in studying at the University of Puthisastra.

FACULTY OF PHARMACY, UNIVERSITY OF PUTHISAstra, ATTENDING THE HIGHER EDUCATION EXPO 4.0 AT CONNEXION BUILDING, KOH PICH, PHNOM PENH.



On September 7, 2024, the Faculty of Pharmacy participated in the Higher Education Expo 4.0 held at the Connexion Building in Koh Pich City. The Higher Education Fair aims to entertain, inform, and expand the understanding of high school students. So that students can make informed decisions about the major they want to study at university.

This program will help students "pursue their dreams" in life with confidence.

In addition, the staff of the faculty also participated in the exhibition of some products that were created by pharmacy students and also provided advice to high school students who are interested in a pharmacy major after finishing high school exams on what students should be prepared for and do to pass the national examination to study a pharmacy major, especially the Faculty of Pharmacy of the University of Puthisastra.

HIGHER EDUCATION FAIR 2024 AT CONNEXION, DIAMOND ISLAND



On September 7th and 8th 2024, the Faculty of Nursing and Midwifery participated in the “Higher Education Fair 4.0” at the Connexion building, Diamond Island City, Phnom Penh.

Our dedicated staff and students engaged with attendees, providing valuable information about nursing majors and offering complimentary blood pressure checks.

This event is a pivotal opportunity for middle and high school students to explore potential career paths and gain insights into university admissions and scholarships.

Top 6 Benefits of attending:

1. Gain knowledge about various university majors
2. Discover popular majors aligned with current and future job markets
3. Network with universities and companies
4. Access information on scholarships from participating universities
5. Build self-confidence
6. Make informed decisions about your future

IMPLANT SURGERY WEEK AT UP DENTAL CLINIC



The second semester of the Diploma of Implantology program commenced with a week of clinical teaching, on the 2nd of September, during which the 16 candidates were assessed on their treatment plan, surgical procedure, and case management. This clinical supervision was led by two overseas mentors, A/Prof Patrick Tseng and Dr. Michael Burke.

Nearly 30 procedures were performed and were strictly adhered to a high standard of care. The cases included implant placement in the posterior and anterior regions, implant placement with hard/soft tissue augmentation, and socket preservation.

During the whole week, candidates from the 2nd batch acquired pivotal skills in treatment approach, critical problem solving, and various surgical techniques. The Diploma program equips candidates with the necessary scientific knowledge and clinical skills needed for optimal treatment plan in their daily practice. Potential dentists who would like to join this program in the future can contact UP admin via bnahata@puthisastra.edu.kh or +85510507456.

PHARMA-CAREER CLUB HOSTED HIGHER EDUCATION IN SOCIAL SCIENCES PRESENTATION.



On August 29, 2024, the Pharma-Career Club hosted a presentation by Ms. Ung Huykhim, Head of Basic Pharmaceutical Science, at Hall-B, University of Puthisastra. The session, which took place from 13:00 to 14:00, was centered on the theme "Higher Education in Social Sciences."

Ms. Ung Huykhim shared her insights on navigating career paths and developing skills for post-graduate studies. She emphasized the importance of goal setting and provided valuable advice on aligning one's career with educational pursuits.

The presentation covered foundational aspects of education and research in the social sciences, including data collection and interpretation. Ms. Huykhim highlighted the necessity for students to excel in research writing, information technology, English, Khmer, and technical work experience to succeed in this field.

Career opportunities discussed included roles as civil servants, NGO program managers, lecturers/professors, program coordinators,

Department of Drug and Food professionals, health sector policymakers, and strategic planners/consultants.

WORKSHOP ON CAMBODIA'S NATIONAL R&D MANAGEMENT SYSTEM




Five researchers from the University of Puthisastra, including Asst. Prof. Chhea Sophearom, Ms. Pol Sreymom, Mr. Sorn Virak, Mr. Be Sokkeang, and Mr. Kong Sela, participated in a workshop on Cambodia's National R&D Management System held on September 6, 2024, at the Ministry of Industry, Science, Technology, and Innovation.

The workshop aimed to strengthen the research ecosystem by helping researchers select innovative research topics and translate their results into socio-economic benefits. The researchers from the University of Puthisastra, along with other key stakeholders, contributed valuable insights and input throughout the presentation and discussion sessions.

The event was organized by the Ministry of Industry, Science, Technology, and Innovation in collaboration with the Science and Technology Policy Institute of the Republic of Korea.

It included over 130 representatives from government, research institutions, the scientific community, and academic organizations, all gathered to discuss the future of R&D in Cambodia and the establishment of a national R&D funding mechanism.

CONGRATULATION TO UP PHARMACY STUDENTS HAVE BEEN SELECTED FOR COMPETITION OF IDEATHON CAMBODIA



INFORMATION

IDEA Contest with Ideathon
Initiating the idea to solve the social problem

Ideathon provides the opportunity for Cambodian youth to initiate the idea of solving the social problem by focusing on using technology to create a solution.

At the event, focusing on existing from scratch. This initial stage will be your starting point to build up the future solution and become a start-up business eventually.



Prize
\$1,500 for 1st Winner
\$1,000 for 2nd Winner
\$500 for 3rd Winner
\$300 for activity at the event

Eligibility
• Cambodian undergraduate student
• Not required TECH person
• Fresh initiative on this program
• As a team with 3 - 5 members


Registration
Now - 31 August 2024

Event 14 - 15 September 2024
Venue CJCC (Angkor - Nizone Hill)

TOPIC
• Education
• Agriculture
• Healthcare
• Tourism

Registration  

Health Tech Girls



SEAM NEARY ROTH



HOUR SOCHEATA



BOU SOMALIN

Congratulation to our second year Pharmacy students from University of Puthisastra, Ms. Seam Neary Roth, Ms. Hour Socheata, and Ms. Bou Somaly have been chosen to participate in Ideathon Cambodia Season 3, scheduled to take place on September 14-15, 2024. This competition aims to address pressing challenges by leveraging technology across four key areas: education, agriculture, healthcare, and tourism.

The selected team focuses on the healthcare sector and is developing a mobile application designed to enhance medication services. Their application will offer a range of features including medical translation, consultations with pharmacists about pharmaceutical drug descriptions, and advice from general medical doctors. Additionally, the app will provide guidance on maintaining a healthy lifestyle and access to a variety of books and articles about diseases.

The students are dedicated to showcasing their innovative solutions to the public and are particularly motivated to excel and secure a top position in the final round of the competition.

The Faculty of Pharmacy at the University of Puthisastra extends its best wishes for a successful and fruitful outcome in your endeavors.

“We truly believe that every person deserves the best healthcare services, and various technological innovations will serve as the perfect solution to this.” Our passion.

UP PHARMACY STAFF RECEIVED TRAINING ON BIODERMA'S SÉBIUM RANGE



On September 6, 2024, Ms. Suon Sonica, a trainer from Bioderma Cambodia, gave a presentation on the Sébium product range to our pharmacists at UP Pharmacy. The range includes Sébium H2O, Sébium Gel Moussant, Sébium Gel Moussant Actif, Sébium Lotion, Sébium Pore Refiner, Sébium Kerato+, Sébium Serum, Sébium Sensitive, and Sébium Hydra. This product range is tailored for combination, oily, and acne-prone skin.

If you wish to explore more about these products, please visit UP Pharmacy, where we will recommend products that match your skin condition. If you have any concerns about your skin health, our pharmacist can also provide advice on how to improve your skin's well-being with respect to its ecobiology.

UP PHARMACY STAFF RECEIVED TRAINING ON KPLASS PATCHES



On September 7, 2024, the KPLASS team came to UP Pharmacy to give a presentation on their product range to our pharmacists. Their product range includes cough relief patches, pain relief patches, and knee pain relief patches. What sets KPLASS patches apart is their use of far-infrared technology. Far-infrared light is invisible but has potent thermal effects and penetrating power. It penetrates 2mm to 14mm deep into the skin, reaching muscles, nerves, and bones. It improves blood flow and delivers oxygen and nutrients, promoting cell function, tissue repair, and pain reduction. If you want to experience the benefits of KPLASS patches, you can find them at UP Pharmacy.

INTRODUCTION TO RESEARCH METHODOLOGY COURSE IN FY: UNLOCKING STUDENT POTENTIAL IN RESEARCH SKILLS



Introduction to Research Methodology is an essential course in academic study as it provides students with the foundational skills needed to conduct scientific research. To prepare students with essential research skills for their senior year, we introduced the Introduction to Research Methodology courses as part of the Foundation Year program at UP. This course provides a basic understanding of the research process, covering key steps such as formulating research questions and objectives, conducting literature reviews, designing research studies, collecting and analyzing data, synthesizing information, and drawing conclusions. Additionally, it emphasizes the importance of academic writing, focusing on citation and referencing practices that ensure academic integrity and ethics.

This course challenged students to develop their presentation skills along with a well-designed slide show based on data from the previous studies that's related to their research interests in the fields of science and health science. This approach trains students in presenting their final projects by using secondary data to support their arguments. They were enthusiastic and actively involved in exploring new knowledge and learning about the basics of conducting research.

Here are some of the students' presentation activities. So proud of them, and congratulations!

Introduction to Research Methodology Course in FY: Unlocking Student Potential in Research Skills

7 RESEARCH WORKS OF SCIENCE RESEARCH STUDENTS WILL BE PRESENTED AT INTERNATIONAL CONFERENCES IN THAILAND AND VIETNAM



Congratulations to the staff and students of the Faculty of Health Sciences and Biotechnology of the University of Puthisastra, the abstract of the research will be presented as a poster at two international conferences:

1. The 7th International Biology Conference 2024, which will be held at ICISE, Binh Dinh Province, Vietnam from October 2 to 4, 2024
2. The 50th International Congress on Science, Technology, and Technology-based Innovation (STT50), will be held at The Empress Hotel, Chiang Mai, Thailand. From 25 to 27 November 2024.

Title 1 DNA Isolation and Identification of Escherichia coli O157:H7 Isolated from Fresh Vegetables in Phnom Penh
 By Ms. Heng Sreily, a full-time lecturer at the Faculty of Health Sciences and Biotechnology of the University of Puthisastra

Title 2: Identification of Alpha-Galactosidase gene in tomato plant

This is a group research work as follows:

- Ms. Sort Sreynith, Science Research Year 3, Batch 2
- Ms. Hak Meyhouy, Science Research Year 3, Batch 2
- Ms. Som Dalen, Science Research Year 3, Batch 2

Supervised by Ms. Heng Sreily, a full-time lecturer at the Faculty of Health Sciences and Biotechnology of the University of Puthisastra.

Title 3: Quantification of Sodium Dithionite in Bean Sprouts from Markets Located in Phnom Penh, Cambodia

This is a group research work as follows:

- Mr. Pek Linheng, Science Research Year 3, Batch 2
- Ms. Makara Seihakpanha, Science Research Year 3, Batch 2
- Ms. Soknea Seakleang, Science Research Year 3, Batch 2
- Ms. Phally Seavmean, Science Research Year 2, Batch 3
- Mr. Chao Tha Chea Buthra, Science Research Year 3, Batch 2
- Mr. Phal Bunrong, Science Research Year 3, Batch 2

Supervised by Ms. Chhun Sreynich, a full-time lecturer at the Faculty of Health Sciences and Biotechnology of the University of Puthisastra.

Title 4: Effect of Temperature and Storage Duration on Vitamin C Content in Pursat Orange Juice (Citrus sinensis (L.) Osbeck)

This is a group research work as follows:

- Ms. Orm Sreyneth, Science Research Year 4, Batch 1
- Ms. Horn Chanvita, Science Research Year 4, Batch 1
- Ms. Kaosoun Bya, Science Research Year 4, Batch 1

Supervised by Ms. Chhun Sreynich, a full-time lecturer, and Mr. Be Sokkeang, Science Research program manager at the Faculty of Health Sciences and Biotechnology of the University of Puthisastra.



Title 5: Assessing the Safety of Drinking Water in Urban Slum Vs. Rural Cambodia: Escherichia coli Detection Using H2S Test Kits

By Mr. Peung Keangseng, Science Research Year 3, Batch 2

Supervised by Mr. Be Sokkeang, a Science Research program manager at the University of Puthisastra.

Title 6: Microplastic Pollution - A Treat to Human Health: What Can Cambodia Do?

This is a group research work as follows:

Ms. Soknea Seakleang, Science Research Year 3, Batch 2

Ms. Makara Seihakpanha, Science Research Year 3, Batch 2

Supervised by Ms. Chhun Sreynich, a full-time lecturer at the Faculty of Health Sciences and Biotechnology of the University of Puthisastra.

Title 7: Determination of Extracted DNA From Human Blood Cells Using QIAAMP® DNA Blood Mini Kit

This is a group research work as follows:

Ms. Leng Sreylin, Science Research Year 4, Batch 1

Ms. Men Kalyansethyroat, Science Research Year 4, Batch 1

Ms. Penh Rotha, Science Research Year 4, Batch 1

Supervised by Ms. Heng Sreyly, a full-time lecturer, and Mr. Be Sokkeang, Science Research program manager at the Faculty of Health Sciences and Biotechnology of the University of Puthisastra.

THE CLERKSHIP OF SCIENCE RESEARCH STUDENTS IN SEMESTER 2, ACADEMIC YEAR 2023 - 2024



On Monday, 2nd September 2024, Science Research students' year 3 batch 2 of the Faculty of Health Sciences and Biotechnology, University of Puthisastra started their clerkship for semester 2, academic year 2023-2024. The clerkship was led by faculty members to the medical laboratory of partner public and private hospitals such as Cho Ray Phnom Penh Hospital, Prah Ketomealea Hospital, and Khmer Soviet Friendship Hospital. It should be noted that students will be doing the clerkship for one month which starts from September 2, 2024, to September 27, 2024.

THE INTERNSHIP OF MEDICAL LABORATORY TECHNOLOGY STUDENTS YEAR 3 TO CHILDREN'S HOSPITALS KANTHABOPHA



On September 9, 2024, Medical Laboratory Technology students' year 3 batch 11 of the Department of Laboratory Science, the Faculty of Health Sciences and Biotechnology, University of Puthisastra start their internship at the Medical Laboratory of Children's Hospitals KANTHABOPHA, which starts from September 9, 2024, to October 26, 2024.

PROJECT-BASED LEARNING FOR YEAR 2 GENERAL ENGLISH COURSESA

Medical Counseling

- AI can ask for information and diagnosis symptoms to give drugs
- It can explain in detail how to use it to the patient.






During the academic year of 2023-2024, Year 2 General English students engaged in a dynamic project-based learning experience centered around oral presentations. This approach allowed them to showcase their projects using PowerPoint, a powerful visual aid tool, fostering a collaborative learning environment.

While working in teams, students utilized the opportunity to demonstrate their leadership qualities and contribute both knowledge and language skills to the learning process. Some key aspects of their project-based learning involved brainstorming, content structuring, and delivery techniques improvement which include, but not limited to, their body language. Beyond the students' presentation ability, this experience also provided them with appropriate space and time to further develop essential skills such as teamwork, effective communication, and problem-solving — key attributes for success in both academic and professional contexts in the modern era.

With the differences in proficiency levels—A2, B1, and B2—students were well supported through customization of topics for assessment as well appropriate scaffolding on language and content to eliminate mismatches between their actual ability and understanding and the tasks. These topics included "The Advantages of Food and Diet on Health," "Environmental Issues," and "Different Types of Law Enforcement for Different Circumstances", which were thoroughly considered in conjunction with students' general knowledge and content exposure during the semester. In addition, sensible efforts in supporting students' presentation ability and range of language and accuracy were made through ongoing constructive feedback and class activities to ensure that each student could fully comprehend the material at a suited level and collaboratively engage with the tasks for their summative assessment.

Overall, this project-based learning strategy has enriched our students' educational journey, equipping them with practical skills and fostering a deeper understanding of their subjects.

ICT AND SCIENCE RESEARCH STUDENTS PARTICIPATE IN E-GEN PROGRAM ORGANIZED BY MOEYS



កម្មវិធីអ៊ីជីណែន (E-GEN) 2024
TOPIC: Echo Eats: Smart Feedback Loop

អ្នកស្រី ចែម សុភា ស្រីមីកនី
 លោក ឆន ចិត្តា សាវណិក
 កញ្ញា កែវ តាំងអ៊ុន សាវណិក
 លោក ជួន ធីត្យូ សាវណិក
 លោក ហៅ ចាតប្បុរ សាវណិក
 កញ្ញា ស៊ុច ដិត សាវណិក
 កញ្ញា វិធា ធីតា សាវណិក

រៀបចំដោយ៖ គណៈកម្មាធិការកម្មវិធីអ៊ីជីណែន នៃអង្គការកម្ពុជាសម្រាប់បច្ចេកវិទ្យា ព័ត៌មាន និង វិទ្យាសាស្ត្រ

Students specializing in Information and Communication Technology (ICT) and science research have come together to participate in the "E-Gen" program, an initiative initiated by the Ministry of Education, Youth, and Sports (MoEYS).

This event aimed to foster innovation, research development, and the practical application of digital innovations in the context of Cambodia's evolving digital economy. The E-Gen program is designed to equip students with cutting-edge skills, promote research in emerging technologies, and encourage collaboration between academia and industry.

Over the course of the event, participants engaged in workshops, and hands-on training sessions, where they worked on real-world projects using technologies.

WORKSHOP ON “DATA DRIVEN TECHNOLOGY AND ITS APPLICATION” AT CADT



An Information and Communication Technology (ICT) lecturer attended an insightful workshop on "Data-Driven Technology and Its Application," held at the Cambodia Academy of Digital Technology (CADT). The workshop, aimed at advancing knowledge in the quickly developing field of data-driven solutions, attracted experts and academics from various institutions. The workshop on "Data-Driven Technology and Its Application" offered a unique opportunity for professionals in the ICT and data science fields to expand their knowledge and network with industry leaders.

ICT UPDATED NEW CURRICULUM TO ACADEMIC BOARD (AB) FOR APPROVAL

MSIT Data Science Curriculum 2024-2026

Year	Course ID	Course Name	Credits	Hours	
Year 1	MS101	Mathematical Foundations	3	45	
	MS102	Python Programming	3	45	
	MS103	Cloud Computing	3	45	
	Total Term 1			9	
	MS104	Machine Learning	3	45	
	MS105	DevOps I	3	45	
Year 2	MS201	Data Science Fundamentals	3	45	
	Total Term 2			9	
	MS202	Data Modeling	3	45	
	MS203	DevOps II	3	45	
	MS204	Cloud Architecture	3	45	
	Total Term 3			9	
Total Year 1				27	

ICT Curriculum 2024-2026

Year	Course ID	Course Name	Credits	Hours	
Year 1	IC101	Networking Fundamentals	3	45	
	IC102	Network Security	3	45	
	IC103	Network Troubleshooting	3	45	
	Total Term 1			9	
	IC104	Network Design	3	45	
	IC105	Network Implementation	3	45	
Year 2	IC201	Advanced Network Security	3	45	
	IC202	Data Visualization	3	45	
	IC203	Network Configuration	3	45	
	Total Term 2			9	
	IC204	AI and Data Ethics	3	45	
	IC205	Blockchain Technology	3	45	
Total Year 1				27	

UP Content Comparison

Program	Programming	Networking	AI and Data Science
UP's programming major	42.76	12.41	12.41
UP's Network major	26.21	59.31	10.34
Cambodia's Digital Skill Roadmaps	17		12

The Faculty of Information and Communication Technology (ICT) has officially submitted its newly updated curriculum to the Academic Board (AB) for approval. This marks a significant step in the Faculty's commitment to ensuring that its academic offerings remain aligned with both the latest industry standards and the evolving needs of students in the digital era. This updated curriculum reflects our commitment to providing students with the skills and knowledge they need to succeed in a quickly evolving digital landscape. We believe it will set a new standard for ICT education in the region. New ICT Curriculum Exceeding Cambodia's requirements UP programs focus on both programming and computer network majors. Both curricula offer superior competencies including emerging skills such as AI and data science, positioning our graduates for success in the evolving digital landscape. According to the study of "Cambodia Digital Skill Roadmaps 2024-2035" published by the Ministry of Post and Telecommunication, there are only 14% of programming courses and 12% of computer network courses delivered by most of the universities in Cambodia.

UP DENTAL STUDENTS FROM ROTARACT CLUB OUTREACH TO KAMPOT PROVINCE



On September 8 the members of the Rotaract Club of Phnom Penh Central, which is made up mainly of UP dental students, was invited to participate in a mangrove tree planting project at the Tropeang Sangkae Fishing Tourism Community in Kampot Province.

The mangrove planting activities is part of the "Environment is Life" project, which is led by Rotary Club Phnom Penh Central (the guardian of our Rotaract Club). By planting mangroves, not only can they help the fishing community, but they also enhance the natural beauty of the region and attract of tourists.

Mangroves help prevent landslides and erosion of the coastline from the waves, helps to make the sea water clear, and helps to purify the air. All of this helps to improve the quality and sustainability of the environment. The Rotaract Club members from UP were very happy to take part in these efforts to preserve the natural environment by planting mangroves and boosting our Cambodian economy. We would also like to thank the Rotary Club, Phnom Penh Central, and all participating members for their support. We hope that this project will help promote tourism and benefit the fishing communities in Tropeang Sangkae.

UP COMMUNITY AT HUN NEANG TOUL TUMPNG 2 PRIMARY SCHOOL



This semester, the University of Puthisastra (UP) community provided dental services to the students at Hun Neang Toul Tumpng 2 Primary School.

The fourth-year dental students were divided into three groups to deliver treatment, conducting their sessions at the school on Mondays, Wednesdays, and Fridays, under the supervision of Dr. Hour Lim Heng, Dr. Im Puthisa, Dr. Horn Sotheareak and CIPO team.

The Health Kids Cambodia program encompassed oral education and level 2 treatments, including sealants and atraumatic restorative treatment and SDF.

Our projects were extended to students from kindergarten through grade 6 in total we provided treatment to 294 children, which included sealants to 1,144 teeth and ART on 263 teeth.

PROVIDE LEVEL 1 TREATMENT AT PIO

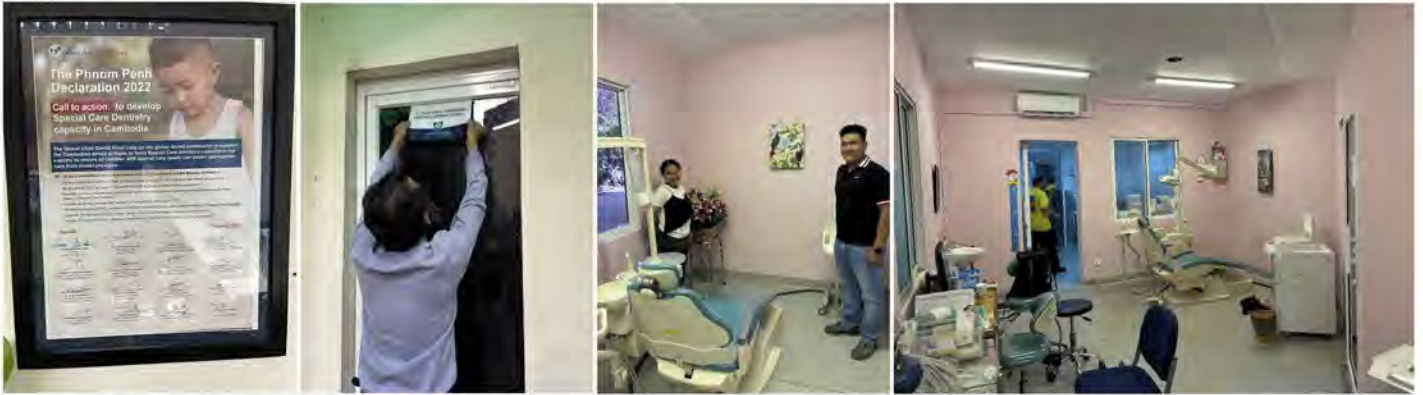


From September 9th to 13th, 2024, the Collaborating Center for Innovation in Population Oral Health (CIPO) of the University of Puthisastra, in partnership with 12 dental students from the University of Health Sciences (UHS), conducted Level 1 oral health treatments for children at the People Improvement Organization (PIO).

The team provided essential oral health education and applied Silver Diamine Fluoride (SDF) to prevent and stop dental caries.

Throughout this five-day initiative, the team successfully treated 643 children. For those requiring Level 2 and 3 treatments, the team plans to return in coordination with Dr. Phillip from Ivoclar, who will be joining them in Cambodia. We extend our heartfelt appreciation to Ivoclar for their invaluable support in enhancing dental health and brightening the smiles to Cambodia's children.

SPECIAL NEEDS DENTAL CLINIC UPDATES IN DENTAL HOSPITAL ONE



The Dental Clinic room in Hospital One recently received upgrades to make it more comfortable for its patients and staff. This was accomplished solely by volunteers with very minimal cost for materials. The clinic received a fresh coat of paint, other decorations, and new, softer lighting to create a more calming environment in which to treat this group of patients. The Phnom Penh Declaration 2022 pledged to create and expand treatment capacity for the greatly underserved population of Special Needs dental patients. UP faculty and students regularly see patients with disabilities from the government schools and other organizations. UP has been a leader in this effort!

Dr Magnus, a US volunteer Adjunct Assistant Professor of Dentistry and Specialist in Special Needs Dentistry observes that this is a worldwide problem and not limited to Cambodia. In addition to his work at UP, Dr Magnus spends time in his former clinic in Michigan treating the most complex cases and training others to provide these services.

Dr Magnus states that he is simply carrying out the vision of Dr Callum, also a leader in the field of Pediatric Dentistry and Special Needs dentistry. To honor Dr Callum, the faculty decided to name the newly redecorated clinic in his honor.

DENTAL STUDENTS THESIS DEFENSE



On August 28, 2024, the Department of Dentistry conducted two thesis defenses for students from Batch 2 Group 40 and Batch 4 Group 55. The thesis for Batch 2 Group 40 is titled "Dental Anomalies in Panoramic Radiographs of Children Aged 5-12 Years at the University of Puthisastra (UP) Dental Hospital." The students presented in this thesis are MITH Visal, THEAM Terong, and BUN Sophealeak, under the supervision of Dr. YOS Chantho and Dr. TAK Ranuch. The chair examiner for this session is Asst. Prof. SOEUN Sopharith, along with Dr. SAM Sovatdy and Dr. HORN Rithvitou, served as examiners. The outcome of this defense is a Pass with Credit. Congratulations to the students.

For Batch 4 Group 55, the thesis topic is "Perception of Pain as a Result of Orthodontic Treatment with Fixed Appliances at UP Dental Hospital." The presentation was delivered by students SOUN Somaly, KEO Sokcheat, and CHAN Davin, supervised by Professor Anand Marya. Asst. Prof. SOEUN Sopharith chaired the examination, with Dr. KHOUN Tola and Dr. HORN Sereybot as examiners. The result of this defense is a Pass. Congratulations to the students.

Topic 1: Dental Anomalies in Panoramic Radiographs of Children Aged 5-12 Years Old in University of Puthisastra (UP) Dental Hospital

ABSTRACT

Introduction: Dental anomalies are abnormalities in which the tooth or teeth have deviated from normal in form, function, anatomic growth, development or position. Radiographic examination is commonly performed by dentists and is important in oral diagnosis. Aim: To determine the prevalence and types of dental abnormalities seen on panoramic radiographs of patients aged from 5-12 years old from UP dental hospital. Methods: 300 Panoramic X-rays of patients aged from 5-12 years old from the UP dental hospital were selected by convenience sampling. The age and sex of each patient was obtained from the dental record.

Each panoramic X-ray was carefully examined on a computer screen by 3 researchers to identify and record all dental anomalies. Data was entered into Excel and analysed using SPSS for descriptive analysis. Results: Among the 300 panoramic X-rays, 56.7% were from female patients. Mean age of patients was 9.08 years (SD 2.2) (Range 5-12). The mean radiographic DMFT was 2.2 (SD 3.1), mean PUFA was 0.5, the mean dmft was 6.1 and the mean pufa was 3.7. 61.7% of X-Rays had at least one tooth periapical radiolucency, 25% showed at least one congenitally missing tooth, and 30% had at least one missing tooth due to dental caries. There were two patients with Dens Invaginatus, Dentinogenesis Imperfecta, Ectopic tooth, microdontia, or regional odontodysplasia. One patient had an odontome, a supernumerary tooth, or a double tooth. 13.3% had an enamel pearl, 7.3% had Taurodontism, 6.3% had an impacted tooth, 3.3% had talon cusp, and 3% had transposition. 85.7% on dental anomalies involved permanent teeth.. 4.3% had root canal treatment and 1.7% had a cyst.

Conclusion: In addition to dental caries and periapical lesions, a wide range of dental anomalies were detected on the 300 panoramic X-rays in this study. The results suggest that panoramic X-rays are a valuable diagnostic aid, and should be used routinely for oral health assessment by dentists everywhere. In Cambodia, education for dental students and dentists on the use of panoramic X-rays and how to interpret them should be promoted.

Keywords: dental abnormality, dental abnormally, anomaly, dental caries, panoramic radiograph, Cambodia, children

Topic 2: Perception of Pain as a Result of Orthodontic Treatment with Fixed Appliances in UP Dental Hospital ABSTRACT

Objectives: To explore experience and perceptions of pain during orthodontic treatment with fixed appliances in patients receiving treatment at the UP Dental Hospital (UPDH).

Methods: A total of 104 respondents, undergoing orthodontic treatment in UPDH were interviewed using a 29 items questionnaire that took approximately 15 minutes to administer. This study utilized a proportion test using Gpower to calculate the approximate sample size. Data were analyzed using descriptive analysis, chi-square test, independent t-test, and one-way analysis of variance (ANOVA). The statistical analyses were used SPSS (version 27). Results: AMONG 104 RESPONDENTS PARTICIPATED IN THE STUDY, CONSISTING OF FEMALES WERE 54 AND MALES WERE 50 WHILE ABOUT HALF OF THEM WERE BETWEEN THE AGES OF 21 AND 25 (49.9%). There is no significant different mean between male and female for all the scores. There were significant mean difference in patients' attitudes toward orthodontic treatment between the ages of 15-20 and 31-41 years old ($P = 0.045$). Most patients concurred that wearing braces necessitates improved dental care, dietary changes, and the improbable possibility of significant facial changes or weight loss. Arch wire placement received the highest marks (mean 3.04) for actual or expected discomfort during the treatment. Less pain was felt by patients during the debonding, impression-taking, and orthodontic retainer-wearing processes. Conclusion: This study was the first one in Cambodia to explore patient experiences during orthodontic treatment and make an attempt to differentiate between discomfort and pain across different stages of orthodontic treatment. Regarding patient experiences of pain, patients' attitudes toward orthodontic treatment, and patient expectations from orthodontic treatment, there was no statistically significant mean difference between males and females for all the scores

Keywords: Orthodontic treatment, Pain perception, Personality, Cambodia.

UP WEBINAR SERIES –PEDIATRIC DENTISTRY FOR GENERAL DENTISTS



We are happy to share that UP has organized a Webinar series "UP WEBINAR SERIES –PEDIATRIC DENTISTRY FOR GENERAL DENTISTS"

The Third Topic in the webinar series is "A day in the life of a pediatric dentist" by Dr. Erin Mahoney
Webinar date: 22nd September 2024 (3:00 PM to 5:00 PM, ICT)

Platform: ZOOM meeting

Meeting ID: 857 3268 0081

Passcode: 224201

The participants who register, will be awarded 2 CPD points and certificate of attendance after the webinar. Register yourself using the below link, the registration fee is \$5.

It is a request that you please fill the registration form, without that your registration won't be complete/confirmed.

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YEAR 4 DENTAL STUDENTS HAND-ON PIG HEADS FOR ORAL SURGERY II



Oral Surgery II is one of the most interesting subjects for every dental student. It is not only essential to study, but it also plays a significant role in patient care and the dentistry field in general, as the knowledge gained helps dentists manage minor surgeries like third molar extractions and other impacted teeth surgeries. Additionally, it is vital for advanced dental treatments, such as implants and periodontal disease management.

During the Oral Surgery II course, dental students in year 4 have the opportunity to practice in the oral surgery simulation lab, where they apply theoretical knowledge by performing third molar extractions on pig heads. This hands-on experience provides dental students with practical skills and a deeper understanding of oral surgery techniques.

Students have learned a great deal from the hands-on pig head exercise and are eager to apply the knowledge they've gained to treat real patients.

