

Degree Level	Bachelor's	☑ Grad.Dip. L	I Master's ∟	Higher Grad.Dip.	☐ Doctoral	Faculty of Medicine Siriraj Hospital
TQF2 Bachelo	or of Science F	Program in Prost	thetics and C	orthotics (Blended	distance learning in	nternational program)
Revised Progra	am of academ	nic vear 2020				

## Mahidol University Degree Profile (MU Degree Profile)

## Bachelor of Science Program in Prosthetics and Orthotics (Blended distance learning international program)

## Bachelor's Degree Program

1. Name of the program

(Thai) หลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชากายอุปกรณ์ (หลักสูตรนานาชาติแบบเรียนทางไกลผสมผสาน)

(English) Bachelor of Science Program in Prosthetics and Orthotics (Blended distance learning

international program)

2. Degree Name

(Thai) วิทยาศาสตรบัณฑิต (กายอุปกรณ์)

(English) Bachelor of Science (Prosthetics and Orthotics)

General information of the program		
Type of the program	Bachelor's Degree (Professional)	
Required number of credits	154 credits	
Studying duration / program round	4 years	
The program's status and opening	Bachelor's Degree Scheduled to open for semester 2,	
schedule	academic year 2020	
Degree granting	One degree	
Degree-granting Institutions (MOU with	Mahidol University	
other institutions)		
Organizations certifying the standard	International Society for Prosthetics and Orthotics (2019-2023)	
Specific information of the program		



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Purpose / Goals / Objectives	Goals: To produce graduates with prosthetic and orthotic
	knowledge exhibiting desirable characteristics of graduates
	of Mahidol University and to satisfy the standards of the
	International Society for Prosthetics and Orthotics
	<u>Objectives</u>
	1. To produce graduates with the knowledge of principles
	and rules related to the science, methods of producing
	prosthetic and orthotic appliances, including other skills and
	whom are able to apply program all knowledge in future
	clinical practice
	2.To produce graduates with knowledge and skills that are
	in accordance with current professional ethics and whom
	will engender a good ethical clinical practice, whilst
	respecting and protecting the rights of others
	3.To produce graduates with robust interpersonal skills for
	effective team-based work in multidisciplinary teams
	4.To produce graduates who are equipped with self-
	development skills and a desire to pursue additional
	knowledge related to prosthetics and orthotics
	5.To produce graduates who can apply knowledge gained to
	conduct research which relates to prosthetic and orthotic
	science, with correct methodology and which is suitable for
	their specific research question
	6.To produce graduates who are equipped with lifelong
	learning skills, a sense of duty, social responsibility, and
	whom will apply this knowledge for the benefit of society
Distinctive Features	This program has been certified by the International Society
	for Prosthetics and Orthotics. Focus is on producing
	graduates who are ready to do the clinical work immediately
	by using advanced instruction method and tools of the
	blended learning method of education (BDLE). The program
	tailored combination of the distance learning (web-based)
	delivery of the academic content including theoretical
	lectures, seminars, research topics and case studies and the
	comprehensive practical education through on- site
	production production of the state of the st



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	demonstration workshop seminar with hands-on experience	
	and real patient. The students are encouraged to develop	
	self-study skills, use creativity and systematic analysis, learn	
	and conduct the research. The individual student	
	progression is closely monitored.	
Educational system	Binary system according to tertiary education curriculum	
	standards	
Graduates' advancement		
Obtainable jobs	Prosthetist/ Orthotist in hospitals or workshop facilities. Being	
	an academic staff or researcher in prosthetics/orthotics in	
	educational institutions or other related organizations.	
Further fields of study	Able to study in related fields such as orthotics, prosthetics,	
	pedorthics, biomedical engineering, medical science,	
	material sciences, public health science, health sciences	
	education, health research and management, psychology,	
	epidemiology	
Philosophy in program administration		
Educational philosophy	The Sirindhorn School of Prosthetics and Orthotics believes	
	that students can be transformed into globally competent	
	graduates if given appropriate opportunities directing toward	
	student achievement, supported by a learner-centred and	
	constructivism approach to teaching.	
Strategy / teaching guidelines	With the combination of the distance and on-site learning,	
	the program provides a variety of learning experiences, use	
	appropriate media and information technology to promote	
	self-learning for students integrating theory and practice,	
	giving importance to the use of evidence and professional	
	practice in real-life situations. There is a system for	
	monitoring, follow up, and helping students. Organize	
	additional activities and attach importance to the cultivation	
	of morals and ethics throughout the curriculum.	



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Strategy / student's evaluation guidelines	Student Learning Assessment:		
	1. Formative assessment by focusing on training students		
	self-assessment and reflection.		
	2.Summative assessment by using criteria-based decisions		
	emphasizing effective outcomes by continually evaluating		
	student achievement based on Learning Outcomes as		
	Course Learning Outcomes (CLOs) and Program Learning		
	Outcomes (PLOs)		
Competences provided to the students			
Generic Competences	1. Critical thinking: Able to analyze and reach systematic		
	synthesis, analyze problems with cause and effect, think		
	creatively under the guidance of the teacher.		
	2. Self-directed learning: Able to analyze the knowledge and		
	skills that they need, set a learning goal, seek learning		
	resources, choose learning methods, and assess the progress		
	of self-learning.		
	3. The use of information technology: Able to search, store,		
	and manage information and knowledge appropriately for		
	effective learning.		
	4. Communication skills: Able to communicate with others,		
	both by listening, speaking, reading and writing, suitable for		
	the group and purpose of communication.		
	5. Administrative skills: Able to apply process management		
	concepts in the operations under the supervision of		
	instructors.		
	6.Research skills: Able to search for facts, understand and be		
	able to assess new information, concepts and evidence from		
	a variety of sources and use the information to solve		
	problems and other tasks.		
	7. Life skills: Demonstrate life skills and continuously improve		
	oneself.		
	8. Morality, Ethics and Good Citizenship: Show responsibility		
	at work and be responsible for their actions with morality and		
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Subject-specific Competences	Knowledge:
	-Basic knowledge in medical science, including
	anatomy, pathology, physiology, rehabilitation medicine,
	psychology
	- Basic knowledge in engineering, including mechanics,
	biomechanics, materials science, engineering drawing
	- Prosthetics and Orthotics knowledge such as the
	production of prosthetic/orthotic device at every level
	according to international standards
	Application:
	- Apply knowledge in related sciences to treat the
	patient by using prosthesis and orthosis.
	- Have skills in patient assessment, treatment plan,
	prosthetic/orthotics design, selection of suitable materials,
	fabrication, modification of orthoses and prostheses at all
	levels. Evaluation of treatment, as well as the use of medical
	shoes to look after and treat people with physical disorders.
	Professionalism:
	- Able to classify reasons, make decisions and take
	actions related to professional ethics
Graduates' learning outcome: At the end	d of the program, successful students will be able to:
PLO 1	Apply knowledge of medical sciences, engineering, prosthetic
	and orthotic sciences to professional practice taking on
	account each patient and their needs and circumstances
PLO 2	Demonstrate proficiency in conducting an appropriate
	examination, evaluation, and assessment of users across the
	individuals' lifespan
PLO 3	Demonstrate competence in plan and following the individual
	prosthetic/orthotic service plans to achieve the standard of
	International Society for Prosthetics and Orthotics (ISPO
	standard)
PLO 4	Optimise the use of appropriate equipment, materials,
	components and techniques in prosthetic/orthotic services
PLO 5	Demonstrate the appropriate attitude and accuracy in
	providing understanding and useful information necessary for
	users and all related persons



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PLO 6	Demonstrate social and professional responsibility, and
	ethical behaviour with virtue and respecting the Professional
	Code of Ethics
PLO 7	Participate in the development and implementation of
	practice management skills in various settings
PLO 8	Work effectively in an inter/intra-professional collaborative
	setting
PLO 9	Demonstrate proficiency in communication skills, appropriate
	to the target group, using different means
PLO 10	Conduct research related to Prosthetics and Orthotics
PLO 11	Demonstrate self-evaluation skills and self-reflection in an
	appropriate manner, incorporating them to different tasks and
	situations