FACULTY FULL NAME: Alaa Ibrahim Ismail Ibrahim

POSITION: Associate Professor, Department of Physical Therapy, College of Applied Medical Science, Imam Abdulrahman Bin Faisal University, Saudi Arabia

Personal Data

Nationality | Egyptian

Date of Birth | April, 19, 1970

Department | Department of Physical Therapy / College of Applied Medical Sciences

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Language Proficiency

Language	Read	Write	Speak
Arabic	Mother tongue	Mother tongue	Mother tongue
English	Fluent	Fluent	Fluent
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2001	PhD	Cairo University	Giza, Egypt
1996	M.Sc.	Cairo University	Giza, Egypt
1991	B.Sc.	Cairo University	Giza, Egypt

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Effect of weight bearing exercises on mineral bone density in non-ambulant cerebral palsied children
Master	Electromagnetic cortical stimulation for evaluation and modulation of central motor pathway in spastic cerebral palsied children

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Professor	Department of Physical Therapy in Pediatrics and Pediatric Surgery, Faculty of Physical Therapy, Cairo University, Egypt	November-2013 till now
Associate Professor	Department of Physical Therapy, College of Applied Medical Sciences, University of Imam Abdulrahman Bin Faisal University, Imam Abdulrahman Bin Faisal University, KSA	Junuary-2016 till now
Assistant Professor	Department of Physical Therapy, College of Applied Medical	September-2008 till

	Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA	Junuary-2016
Associate Professor	Department of Physical Therapy in Pediatrics and Pediatric Surgery, Faculty of Physical Therapy, Cairo University, Egypt	April-2008 till November-2013
Assistant Professor	Department of Physical Therapy, Faculty of Rehabilitation Sciences, University of Jordan, Amman, Jordan	From November-2001 till September-2008
Part time assistant Professor	Master degree courses in Rehabilitation, Islamic University of Gaza, Palestine	From Septemper-2004 till September-2006
Part time assistant Professor	Department of Physical Therapy, Faculty of Applied Medical Sciences, Jordan University of Science and Technology, Irbid, Jordan	From Septemper-2004 till February 2005
Lecturer	Department of Physical Therapy in Pediatrics and Pediatric Surgery, Faculty of Physical Therapy, Cairo University, Egypt	From July-2001 till November-2001
Assistant lecturer	Department of Physical Therapy in Pediatrics and Pediatric Surgery, Faculty of Physical Therapy, Cairo University, Egypt	From 1998 till 2000
Assistant lecturer	Department of Physical Therapy in Orthopedics and Orthopedic Surgery, Faculty of Physical Therapy, Cairo University, Egypt	From 1997 till 1998
Demonstrator	Department of Physical Therapy in Pediatrics and Pediatric Surgery, Faculty of Physical Therapy, Cairo University, Egypt	From 1994 till 1996

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Dean assistant for student's affairs and development	Faculty of Rehabilitation Sciences, University of Jordan, Amman, Jordan	From September 2007 till September-2008
Head of Department of Physical Therapy	Faculty of Rehabilitation Sciences, University of Jordan, Amman, Jordan	From September 2006 till September-2008

Scientific Achievements

Published Refereed Scientific Researches
(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Abdulmajeed Alotaibi, **Alaa Ibrahim**, Raafat Ahmed, and Turki Abualait.	Effectiveness of Partial Body Weight-Supported Treadmill Training on Various Outcomes in Different Contexts among Children and Adolescents with Cerebral Palsy: A Systematic Review and Meta-Analysis.	Children 2024, 11, 9. https://doi.org/10.3390/children11010009
2	**Ibrahim A,** Mortada E, Alqahtani S, Alkathri H, Alsayyed R, Abualait T, Alwhaibi R.	Developmental dysplasia of the hip and associated risk factors in Saudi children: A retrospective study.	J Back Musculoskelet Rehabil. 2021 Jan 29. doi: 10.3233/BMR-191819. Epub ahead of print. PMID: 33554882.
3	Abualait TS, Alzahrani MA, **Ibrahim AI,** Bashir S, Abuoliat ZA.	Determinants of life satisfaction among stroke survivors 1 year post stroke.	Medicine (Baltimore). 2021;100(16):e25550. doi:10.1097/MD.0000000000025550
4	Bataweel EA, **Ibrahim AI**	Balance and musculoskeletal flexibility	Ann Saudi Med 2020; 40(2): 120-

		in children with obesity: a cross-sectional study.	125. DOI: 10.5144/0256-4947.2020.120
5	Amal S. Al-Rasheed, **Alaa I. Ibrahim.**	Does the poor sleep quality affect the physical activity level, postural stability, and isometric muscle strength in Saudi adolescents? A comparative study.	Saudi Med J 2020; Vol. 41 (1): 94-97.doi: 10.15537/smj.2020.1.24761
6	Turki S. Abualait, **Alaa I. Ibrahim.**	Spinal direct current stimulation with locomotor training in chronic spinal cord injury.	Saudi Med J 2020; Vol. 41 (1):doi: 10.15537/smj.2020.1.24818
7	**Alaa I. Ibrahim,** Mohammed S. Abdelsalam, Ziad M. Hawamdeh	Effects of Preoperative and postoperative physiotherapy on functional outcome of patients undergoing total hip arthroplasty.	Iosr journals DOI: 10.9790/0853-XXXXXXX
8	**Ibrahim, A.I.,** Muaidi, Q.I. & Alghamde, A.A.	Abnormalities of Vital Signs in Children with Cerebral Palsy: Relationship to Physical Disabilities.	J Dev Phys Disabil, 2018; 30:55-67. https://doi.org/10.1007/s10882-017-9577-6.
9	Ganeswara Rao Melam, Syamala Buragadda, Adel Alhusaini, **Alaa I. Ibrahim** and Shaji John Kachanathu	Gender Differences in Static and Dynamic Postural Stability Parameters in Community Dwelling Healthy Older Adults.	Middle-East J. Sci. Res., 22 (9): 1259-1264, 2014
10	**Alaa I. Ibrahim**, Qassim I. Muaidi, Mohammed S. Abdelsalam, Ziad M. Hawamdeh, Adel A. Alhusaini.	Association of postural balance and muscle strength in early and middle school-age boys.	Journal of Manipulative and Physiological Therapeutics, 2013 November; 36(9):633-643. Impact factor equal (1.7)
11	Hawamdeh, Z.M., Sheikh-Ali, R.F., Alsharif, A., Otom, A.H., **Ibrahim, A.I.,** Alhadidi, F.A., Samarah, O.Q., Dheirat, I.N., and Juweid, M.E.	The Influence of Aging on the Association Between Adiposity and Bone Mineral Density in Jordanian Postmenopausal Women.	2014 Jan-Mar;17(1):143-9. doi:pii: S1094-6950(13)00029-2. 10.1016/j.jocd.2013.02.007. Impact factor equal (1.7).
12	**Alaa I. Ibrahim**, Adel A. Alhusaini, Fatma A. Hegazy, and Ziad M. Hawamdeh.	Effectiveness of foot wedge and carrying weighted bag on loading the paretic lower limb in children with hemiparetic cerebral palsy.	NeuroRehabilitation. 2013 Jan 1;32(3):563-71. Impact factor equal (1.7).
13	**Alaa I. Ibrahim**, Mohammed S. Abdelsalam, Qassim I. Muaidi, and Ziad M. Hawamdeh.	Evaluation of isometric muscle strength and magnitude of hand dominance in right-handed school-age boys.	International Journal of Rehabilitation Research, 2013 Jun;36(2):118-26. Impact factor equal (1.1)
14	**Ibrahim, A.I.,** Hawamdeh, Z.M. and AlSharif, A.A.	Evaluation of bone mineral density in children with perinatal brachial plexus palsy: Effectiveness of weight bearing and traditional exercises.	Bone. 2011;49:499–505. This research was awarded the prize of excellence in scientific publication from Imam Abdulrahman Bin Faisal University. Impact factor equal (4.2).
15	Hawamdeh, Z.M., **Ibrahim, A.I.,** and Mezher, A.A.	Traumatic brain injury in the Gaza Strip: Adults and children and their caregiver disability burden.	EUR J PHY REHABIL MED. 2010; 46:1-9. This research was awarded the prize of excellence in scientific publication from Imam Abdulrahman Bin Faisal University. Impact factor equal (2.2).
16	Ziad M. Hawamdeh and **Alaa I. Ibrahim.**	Physical growth and nutritional status of Jordanian preschool-aged children.	Minerva Pediatrica. 2008 December;60(6):1375-83.

17	Ziad M. Hawamdeh, Yasmin S. Othman, and **Alaa I. Ibrahim.**	Assessment of anxiety and depression after lower limb amputation in Jordanian patients.	Neuropsychiatr Dis Treat. 2008 Jun;4(3):627-33.
18	**Alaa I. Ibrahim**, Ziad M. Hawamdeh, Jamal T. Al-Smadi, and Bassam A. Ammari.	Prevalence of overweight and obesity in urban and semi-urban Jordanian children aged 3-6 years.	Child Care Health Dev. 2008;34, 4, 464–469. Impact factor equal (1.5).
19	Hawamdeh, Z.M., **Ibrahim A.I.,** and Al-Qudah, A.A.	Long term effect of Botulinum toxin (A) in management of calf spasticity in children with diplegic cerebral palsy.	EURA MEDICOPHS 2007;43(3):311-8.
20	**Ibrahim, A.I.,** Hawamdeh, Z.M., and Al-Qudah, A.A.	Functional Outcome of Botulinum Toxin Injection of Gastrocnemius and Adductors in Spastic Hemiplegic Cerebral Palsied Children.	EURA MEDICOPHS 2007;43(1):13-20
21	**Alaa I. Ibrahim** and Ziad M. Hawamdeh.	Evaluation of Physical Growth in Cerebral Palsied Children and its Possible Relationship with Gross Motor Development.	International Journal of Rehabilitation Research 2007, Vol 30 No (1):47-54. Impact factor equal (1.1).
22	**Ibrahim, A.I.,** and Hawamdeh, Z.M.	Ultrasound guidance can improve the outcome of botulinum toxin A injection	EUR J PHYS REHABIL MED 2009;45:153.
23	**Ibrahim, A.I.,** and Hawamdeh, Z.M.	How do we get better outcome with Botulinum toxin in the treatment of children with spastic hemiplegia?	EURA MEDICOPHS 2007;43:1-2.
24	**Alaa I. Ibrahim,** and Ziad M. Hawamdeh.	Neuromuscular Electrical Stimulation versus Progressive Resistive Exercises for Improving Wrist Extension in Cerebral Palsied Children.	Bulletin of Faculty of Physical Therapy, Cairo Univ., 2006;11(1): 231-241.
25	**Alaa I. Ibrahim.**	Functional Analysis in cases of Developmental Dysplasia of the Hip Joint.	Bulletin of Faculty of Physical Therapy, Cairo Univ., 2006;11(2): 185-195.
26	**Alaa I. Ibrahim.**	Energy Consumption in Different Types of Ambulant Cerebral Palsied Children.	Bulletin of Faculty of Physical Therapy, Cairo Univ., 2005;10(1): 219-228.
27	**Alaa I. Ibrahim.**	Botulinum Toxin (A) Versus Topical Anesthesia for Spasticity Control in Hemiplegic Cerebral Palsied Children.	Bulletin of Faculty of Physical Therapy, Cairo Univ., 2005;10(1): 207-217.

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	**Alaa I. Ibrahim**	Evaluation of physical growth in cerebral palsied children and its	Physical Therapy Conference, University of Dammam, KSA in the period between 18 to 20

		possible relationship with gross motor development.	May 2010. (Speaker)
2	**Alaa I. Ibrahim**	Transcranial magnetic stimulation for evaluation and modulation of central motor pathway in hemiparetic cerebral palsied children.	The second scientific day for Faculty of Rehabilitation Sciences, University of Jordan, Amman, Jordan at 16 April 2008. (Speaker)
3	**Alaa I. Ibrahim**	Functional Outcome of Botulinum Toxin Injection of Gastrocnemius and Adductors in Spastic Hemiplegic Cerebral Palsied Children.	The International Scientific Conference for Faculty of Physical Therapy, Cairo University, Egypt in the period between 6 to 7 March 2008. (Speaker)
4	**Alaa I. Ibrahim**	Effect of weight bearing exercises on bone density in spastic cerebral palsied children.	The sixth annual scientific conference of the graduate institute for children and childhood studies center at the university of Ain shams, in the period from 28 to 30 March 1998. (Speaker)

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	**Alaa I. Ibrahim**, Qassim I. Muaidi, and Ahmed Aljamdi Supported by Imam Abdulrahman Bin Faisal University	Evaluation of vital signs in children with cerebral palsy: Relationship to gross and fine motor functions.	20/6/1436

Current Researches

#	Research Title	Name of Investigator(s)
1	Abdulmajeed Nasser Alotaibi. Effectiveness of partial weight-supported treadmill training exercises in the treatment of children with cerebral palsy. A systematic review and meta-analysis. PhD Program of Pediatric Rehabilitation, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Abdulmajeed Nasser Alotaibi, **Alaa Ibrahim**
2	Abdulmajeed Nasser Alotaibi. Partial Body Weight Support Treadmill Training versus Loaded Treadmill Training in Treatment of Children with Cerebral Palsy. A Randomized Clinical Trial. PhD Program of Pediatric Rehabilitation, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Abdulmajeed Nasser Alotaibi, **Alaa Ibrahim**
3	Abdullah Alanazi. The effectiveness of all forms of lower limb CIMT on motor performance in children with CP. Systematic review and meta-analysis. PhD Program of Pediatric Rehabilitation, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Abdullah Alanazi, **Alaa Ibrahim**
4	Abdullah Alanazi. Lower limb CIMT using the robotic Hybrid Assistive Limb (HAL) training versus the assisted HAL training on motor performance in children with cerebral palsy: A Randomized Control Crossover Trial PhD Program of Pediatric	Abdullah Alanazi, **Alaa Ibrahim**

	Rehabilitation, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	
5	Doha Wadi Binsaddiq. Body composition and adiposity in children with down syndrome compared to typically developed children: The association with motor performance. A cross sectional study. Master Program of Pediatric Physical Therapy, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Doha Wadi Binsaddiq, **Alaa Ibrahim**
6	Atheer Sami Alruwaili. Foot pressure profile for the paretic and non-paretic lower extremities in children with spastic hemiplegic cerebral palsy: The relationship with postural stability. A cross-sectional study. Master Program of Pediatric Physical Therapy, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Atheer Sami Alruwaili, **Alaa Ibrahim**
7	Ahmed Abdurahman Al-Talhi. Exploring current pediatric rehabilitation facilities and their implementation of Key Performance Indicators (KPI) standards and Comparing Patient Satisfaction in the Western Region of Saudi Arabia in a cross-sectional study. Master Program of Pediatric Physical Therapy, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Ahmed Abdurahman Al-Talhi, **Alaa Ibrahim**
8	Maha Ali Alsalatin. Assessment of bone mineral density in children with developmental dysplasia of the hip joint. The possible risk factors for osteopenia and osteoporosis. A cross sectional study. Master Program of Pediatric Physical Therapy, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Maha Ali Alsalatin, **Alaa Ibrahim**
9	Raghad Abdullah Alharbi. The association between smartphone overuse or addiction and physical activities, sleep quality, social isolation, academic achievement, and anxiety in young adults. A cross-sectional study. Master Program of Neurological Physical Therapy, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	Raghad Abdullah Alharbi, **Alaa Ibrahim**

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	**Alaa I. Ibrahim** (2022). Cerebral Palsy: Clinical Messages to Physical Therapists. Keynote Speaker at the 1st international Rehabilitation and Wellbeing virtual Congress Organized by Sky life Establishment for health & optimal posture	On Zoom Event On 11-13 May 2023, Cairo, Egypt.	Speaker
2	**Alaa I. Ibrahim** (2018). Pediatric rehabilitation: assessment and treatment.	A workshop was conducted in Aloft Dhahran Hotel, Al Khobar on	Speaker

		24 June 2018.	
3	Students, CIs, CSCC and AC: Duties and Responsibilities. A symposium for physical therapy clinical instructors	Conducted at building 11, Imam Abdulrahman Bin Faisal University, KSA at 11 April 2015	Speaker
4	Physical therapy evaluation and treatment skills in children with cerebral palsy.	A workshop conducted at Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA in the period between 13 to 14 March 2013.	Speaker
5	Physical Therapy for Children with Perinatal Brachial Plexus Injuries.	A workshop conducted at Medical Rehabilitation Hospital, Madinah, KSA at 17 May 2012.	Speaker
6	The symposium of Saudi Center for Rehabilitation and Training of Blind Girls in Jordan. Therapeutic massage: Definitions; Types; Effects; Indications; Contraindications; Characteristics of massage therapist, and advanced curriculum of therapeutic massage.	Amman, Jordan at 8 April 2004	Speaker
7	New trends in rehabilitation of stroke and spinal cord injured patients.	A workshop conducted for the Palestinian Red Crescent in Beirut, Lebanon in the period from 28 to 31 December 2003.	Speaker
8	Social Responsibility Bank Wednesday	CAMS (9, March 2016)	Attendance
9	Interactive teaching and students' engagement	CAMS (14 October 2015)	Attendance
10	Patent registration and copyrights" by OBLON Representatives	CAMS (25/1/2016)	Attendance
11	Avoiding Common Teaching Mistakes - A Discussion	CAMS (3/2/2016)	Attendance
12	Three days training course in Virtual Reality / GRIL System	Motek Medical, Amsterdam, The Netherlands) (25-27)/3/2013	Attendance
13	Three days training course in Virtual Reality / GRIL System	Motek Medical, New university campus, PT Labs (21-23)/4/2013	Attendance
14	Two days' workshop entitled "Gait Real Time Analysis Interactive Lab – Virtual Reality)	New university campus, PT Labs (24-25)/4/2013	Attendance
15	"Essential Skills of Health Professions - Assessment Strategies"	Meridian hotel (18-20)/2/2013	Attendance
16	The culturing exhibition entitled "Work without pain"	Al-Rashed Mall – Alkhobar (6-7 March 2013)	Attendance Organization
17	Two days' workshop entitled "Gait analysis: Brainstorming with other Prospective / Advanced Techniques in Shoulder & Balance Rehabilitation"	New university campus, PT Labs (4-5)/12/2012	Attendance
18	Workshop entitled "Leadership in Medical Education"	Site 1 auditorium (4/1/2012)	Attendance
17	NCAAA Students surveys.	IAU, Building 11 (3/1/2012)	Attendance
19	Using Electronics Library Facility "SUMMON"	IAU, Building 11 (11-12/3/2012)	Attendance
20	"Essential Skills of Health Professions - Teaching and Learning"	Meridian hotel (8-10)/10/2012	Attendance
21	The culturing exhibition entitled "Let's Ease Spinal Pain"	Al-Rashed in the period between 20-22 April 2011.	Attendance Organization

22	Workshop entitled "Planning and Implementation of Self Study for Programme Accreditation" by Prof. Paul Periton and Prof. Maggy McNorton.	It was organized by the NCAAA in Riyadh in the period between 19-20 February 2011.	Attendance
23	Seminar entitled "The Best Practices for Doing High Quality Research" by Prof. David Warburton and Dr. Richard A. Litman. It was organized by the deanship of scientific research.	----------	Attendance
24	Workshop entitled "Spotlights on Curriculum Development"	Site 1 auditorium (11/10/2011)	Attendance
25	Major academic universities rankings	IAU, Building 11 (12/12/2011)	Attendance

Membership of Scientific and Professional Societies and Organizations

- A member of the Egyptian General Association for physical therapy

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Normal development	PT 314	2 credits / week (lectures)
2	Pediatrics	PT 421	1 credits / week (lectures)
3	Pediatrics surgery	PT 422	1 credits / week (lectures)
4	Pediatrics physical therapy	PT 423	3 credits / week (2 lectures & 1 lab)
5	Clinical practice III	PT 418	3 credits / week clinical (6 hours at hospital)
6	Clinical practice IV	PT 427	3 credits / week clinical (6 hours at hospital)

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	**NORMAL DEVELOPMENT - PT 314:** This course will provide the student with the physiological changes which occur in different body systems from infancy through senility. Alternative theories of human development, and motor control & learning will be compared and contrasted. Basic sensory motor development and reflexes during the first year of life will be discussed. Selected clinical implications to the body changes across life span will also be addressed.
2	**Pediatrics – PT 421:** This course is provided the common pediatric diseases commonly treated by physical therapists. The etiology, pathological changes, clinical manifestations, evaluation, investigations, complications, and medical treatment will be covered. Motor development and reflexes of neonates to 12 months is emphasized.
3	**Pediatric Surgery – PT 422:** This course is provided operative procedures for the common pediatric disorders treated by physical therapists. Indications, complications, procedures, and pre- and post- operative assessment of selected congenital anomalies, birth injuries, chronic neuromuscular disorders, and skeletal deformities will be discussed.
4	**Pediatric Physical Therapy – PT 423:** This course provides a basic understanding of evaluation and physical therapy management of the common musculoskeletal, neurologic, and other selected conditions affecting children. Physical management of related surgical conditions will also be discussed.
5	**Clinical Practice III – PT 418:** Supervised clinical experience in evaluation and rehabilitation of patients with common neurological and neurosurgical conditions encountered by physical therapists. Recent neurophysiological approaches and

	techniques will be addressed.
6	**Clinical Practice IV – PT 427:** Directed clinical experience in evaluation and treatment of common pediatric disorders encountered by physical therapists. Geriatric, burns, and OB-GYN conditions for all age groups will also be covered. Emphasis will be on total integration of previously acquired knowledge, evaluation, and therapeutic skills.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Master of Pediatric Physical Therapy		
1	Advanced motor control & learning	3429517	2 Credits / week (lectures)
2	Advanced clinical practice 1	3429521	3 Credits / week clinical (6 hours at hospital)
3	Advanced pediatric physical therapy 1	34295515	4 Credits hours (3 lect. + 1 lab)
4	Advanced clinical practice II	3429530	3 Credits / week clinical (6 hours at hospital)
5	Case Scenarios in Physical Therapy	3429524	1 Credit / week (lecture)
6	Advanced pediatric physical therapy II	3429528	3 Credits hours (2 lect. + 1 lab)
	Doctor of Philosophy in Pediatric Rehabilitation		
7	Advanced Pediatric Rehabilitation	(PT770)	3 Credits / week (lectures)
8	Independent Study in Pediatric Rehabilitation	(PT772)	3 Credits / week (lectures)
9	Pediatric Exercise Medicine	(PT773)	3 Credits / week (lectures)
10	Seminar I	(PT713)	2 Credits / week (lectures)
11	Seminar II	(PT723)	1 Credits / week (lectures)
12	Seminar III	(PT730)	2 Credits / week (lectures)

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

	Master of Pediatric Physical Therapy
1	**Advanced motor control & learning – 3429517:** This course is designed to introduce you to major concepts within motor control and motor learning across the human lifespan. Both behavioral and neural levels of analyses will be discussed. The focus of this course is sex folds. First, students will review the recent literature on motor learning, motor control, and motor performance and discuss their implications for physical therapy. Second, students will explain the neurological processes underlying efficient movement. Third, students will compare and contrast the theories and processes by which motor skills are acquired. Fourth, students will explain the principles of skill acquisition and apply them to the learning and teaching of motor skills. Fifth, students will analyze motor performances for the purpose of identifying and correcting movement errors. Sixth, students will compare and contrast factors such as attention, anticipation, goal-setting, practice, retention, and transfer of learning as they relate to movement activities.
2	**Advanced clinical practice 1 – 3429521:** This course is designed to advance the students' expertise in the examination, evaluation, diagnosis, prognosis, intervention, and management of patients in pediatric physical therapy. It is expected that the student will gain an in-depth understanding of the science underlying clinical techniques and evidence-based practice. Students are also expected to perform re-examinations, measure patient outcomes, and modify

	interventions accordingly.
3	Advanced pediatric physical therapy – 134295515 : This course provides in-depth exploration of the assessment and intervention procedures used with children suffering from neuropediatric pathologies. Emphasis is placed on activity-based, task-specific exercise, functional and progressive strength training, and treadmill and balance training. Various treatment and intervention approaches will be discussed. The course focuses on evidence-based examination and intervention of children with disabilities within the context of child, family, and environmental factors. This course includes laboratory sessions that will focus on hands-on evaluation/management techniques for the conditions related to the practice of pediatric physical therapy in neuropediatric pathologies.
4	Advanced clinical practice II – 3429530: This course is designed to advance the students' expertise in the examination, evaluation, diagnosis, prognosis, intervention, and management of patients in pediatric physical therapy. It is expected that the student will gain an in-depth understanding of the science underlying clinical techniques and evidence-based practice. Students are also expected to perform re-examinations, measure patient outcomes, and modify interventions accordingly.
5	Case Scenarios in Physical Therapy – 3429524: This course will apply the principles of evidence-based practice to selected patient cases across a variety of physical therapy diagnoses from current practice settings. Emphasis will be placed on patients who demonstrate complex multi-system involvement. Cases will incorporate patients from the community from diverse cultural backgrounds. Students will be expected to determine how the medical history, psychosocial, and socioeconomic variables will affect physical therapy treatment. In the first part of the course, faculty will design and mentor problem-based activities and case studies. In the second part of the course, each student will be expected to present a case (real or made-up) and to lead the discussion regarding that case. Pharmacological issues related to the management of multi-system involvement and the interaction of drug therapy with rehabilitation will be addressed.
6	Advanced pediatric physical therapy II: This course provides in-depth exploration of the assessment and intervention procedures used with children suffering from musculoskeletal and cardiopulmonary pathologies. The students will apply the relevant knowledge of anatomy, physiology, biomechanics, genetics, pharmacology, pathology, and child psychology to evaluation and treatment planning for the children with such pathologies. Students will be acquainted with some of the issues related to pediatric physical therapy practice, e.g. cardiorespiratory fitness training; rehabilitation technology; early intervention; special education; schools; sports settings for the school-aged child; assistive technology; augmentative communication and other technologies; pediatric intensive care unit; high risk infant; incubators; pediatric leukemia; others. The course focuses on evidence-based examination and intervention of children with disabilities within the context of child, family, and environmental factors. The importance of family centered care, parent child interactions, group therapy, and play are explored. This course includes laboratory sessions that will focus on hands-on evaluation/management techniques for the conditions related to the practice of pediatric physical therapy in musculoskeletal and cardiopulmonary pathologies.
	Doctor of Philosophy in Pediatric Rehabilitation
	Advanced Pediatric Rehabilitation (PT770) This course will discuss different conditions which result in activity limitations, various disabilities, and handicaps across childhood. It focuses on the interdisciplinary services and supports provided for those children as well as their families. The course is explaining the role of each discipline including: physical therapy; speech/language therapy; occupational therapy; psychotherapy; oral-motor and feeding therapy; behavioral therapy; parent counseling; special education; orthotics & prosthesis, to the needs of children with disabilities and their families. Case scenario method of teaching will be used throughout this course to allow students to investigate a wide range of real-life scenarios by putting themselves in the positions of family members and expertise and analyzing data, determining problems, formulating solutions and interventions, and comparing treatment alternatives.
	Independent Study in Pediatric Rehabilitation (PT772)

	This course is designed to tailor student's learning by selecting topics in pediatrics, pediatric assessments, and pediatric rehabilitation relevant to his area of study interest and areas of gaps in his knowledge and to do advanced work in these areas. Student will identify his area of interest in consultation with a faculty member with expertise in this area (supervisor). Then the course outline and contents will be developed that is tailor-made to meet the demands and requirements of these areas. The student will then study under the guidance of the course coordinator(s) and examines the pertinent literature critically.
	Pediatric Exercise Medicine (PT773) This course will discuss the physiological and medical aspects of exercise, physical activity, and physical inactivity in healthy children and in children with a disease. It identifies the current major issues that separate children from adults and explains the underlying mechanisms of these differences. It will focus on clinical pediatric health issues like diabetes, obesity, asthma, congenital heart disease, and cancer. Exercise testing, exercise prescription, and exercise rehabilitation protocol in a wide variety of pediatric disorders will be emphasized. Moreover, student-directed seminars will further describe the effect of exercises in specific pediatric conditions with a disease and/or disability.
	Seminar I (PT713) This course is the first of three seminar courses which are designed to develop the skills of students and to provide them with different tools needed to complete their doctorate degree. This course provides students with an opportunity to meet and discuss published articles in the area of rehabilitation sciences. Students will gain experience in presenting, facilitating and discussing published research. Students will meet weekly to present, review and discuss current articles in rehabilitation sciences. Presentations and discussions will be led by students (each week a student will select and present an article, discussion will be facilitated by another student), with at least one faculty member attending for comments and questions. Students are expected to attend, prepare and participate in all seminars.
	Seminar II (PT723) This course is the second of three seminar courses which are designed to develop the skills of students and to provide them with different tools needed to complete their doctorate degree. This course provides students with an opportunity apply the principles of evidence-based practice to selected patient cases across the field of rehabilitation sciences. Emphasis will be placed on patients who demonstrate complex multi-system involvement. Cases will incorporate patients from the community from diverse cultural backgrounds. Students will be expected to determine how the medical history, psychosocial, and socioeconomic variables will affect the case management. Students are expected to draw on their practical experience and prior studies to identify key issues, suggest alternative courses of action and rationales for each alternative, as well as debate the advantages and disadvantages of each. Students will meet weekly to present, review and discuss case scenarios provided by students or faculty. Each student is expected to present two cases. At least one faculty member will attend for comments and questions. Students are expected to attend, prepare and participate in all seminars.
	Seminar III (PT730) This course is the third of three seminar courses which are designed to develop the skills of students and to provide them with different tools needed to complete their doctorate degree. This course provides students with an opportunity to practice the principles of literature appraisal of published articles across the field of rehabilitation sciences. Students will meet weekly to appraise articles selected by students or faculty. Each student is expected to select and appraise at least one article of his/her choice and another selected by the course coordinator. The students are expected to critically read, evaluate the article, identify limitation and draw conclusions. Different types of study design will used. The use of appropriate appraisal tools, based on research design, will be emphasized. At least one faculty member will attend for comments and questions. Students are expected to attend, prepare and participate in all seminars.

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to

1	Normal development PT 314	√		√		2010	Current
2	Pediatrics PT 421	√		√		2009	Current
3	Pediatrics surgery PT 422	√		√		2009	Current
4	Pediatrics physical therapy PT 423	√		√		2009	Current
5	Clinical practice III PT 418		√	√		2009	Current
6	Clinical practice IV PT 427	√		√		2009	Current
7	Advanced motor control & learning 3429517	√			√	2013	Current
8	Advanced clinical practice 1 3429521	√			√	2014	Current
9	Advanced pediatric physical therapy 1 34295515	√			√	2014	Current
10	Advanced clinical practice II 3429530	√			√	2014	Current
11	Case Scenarios in Physical Therapy 3429524	√			√	2014	Current
12	Advanced pediatric physical therapy II 3429528	√			√	2014	Current
13	Advanced Pediatric Rehabilitation (PT770)	√			√	2019	Current
14	Independent Study in Pediatric Rehabilitation (PT772)	√			√	2019	Current
15	Pediatric Exercise Medicine (PT773)	√			√	2019	Current
16	Seminar I (PT713)	√			√	2019	Current
17	Seminar II (PT723)	√			√	2019	Current
18	Seminar III (PT730)	√			√	2019	Current

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To

1	4th	3	2024	2025
2	8th	4	2023	2024
3	6th	4	2022	2023
4	8th	5	2021	2022

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Elaf Turki Ali AlTurki. Master Program of Pediatric Physical Therapy	Assessment of Functional Independence and Community Participation in Children with Cerebral Palsy: The Caregiver Disability Burden. Assessment of Motor Performance in Children with Autism Spectrum Disorder: The relationship with intellectual and social abilities	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2021
2	Jenan Muhammed Alhussain. Master Program of Pediatric Physical Therapy	Assessment of Motor Performance in Children with Autism Spectrum Disorder: The relationship with intellectual and social abilities.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2021
3	Aqeelah Abdulelah AlJishi. Master Program of Pediatric Physical Therapy	Bone mineral density in different types of cerebral palsy: The relationship to the anthropometric, clinical, and motor characteristics. A cross-sectional study.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2021
4	Hajar Almoajil. PhD Program Paediatric Orthopaedics.	Development of a core outcome set for lower limb orthopaedic interventions in ambulant children and young people with cerebral palsy.	Oxford Paediatric Orthopaedic Service, Oxford University, UK.	2020
5	Rashed Yahya Hamad Halman. Master Program of Pediatric Physical Therapy	Long Term Effects of Different Degrees of Prematurity on Motor Performance, Sleep Efficiency, and Academic Achievements of the School Aged Children.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2020
6	Reema Mousa Mansour Al Jalal. Master Program of Pediatric Physical Therapy	Blind versus Deaf Children: Who is More Disabled in Terms of Motor Performance and Quality of Life?	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2019
7	Najwa Abdulrazak Yousef Khan. Master Program of Pediatric Physical Therapy	The Effects of Different Aquatic Interventions on Muscle Power, Balance, Endurance and Functional Skills in Children with Spastic Cerebral Palsy.	Department of Physical Therapy, College of Applied Medical Sciences, Imam, KSA.	2018
8	Amal Saleh Al-Rasheed.	Does the poor sleep quality	Department of Physical	2018

	Master Program of Pediatric Physical Therapy	affect the physical activity level, postural stability, and isometric muscle strength in Saudi adolescents? A comparative study.	Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	
9	Essraa Abdullah Mohammad Bataweel. Master Program of Pediatric Physical Therapy	Balance, Physical Activity, Anaerobic Performance, and Musculoskeletal Flexibility in Saudi Obese Children.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2018
10	Hakima Salman Ahmad Ghazwi. Master Program of Pediatric Physical Therapy	Efficacy of Treadmill as an Adjunct to Conventional Physiotherapy on Walking Performance in Children with Diplegic Cerebral Palsy.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2017
11	Waad Wadie Al Marhoon. Master Program of Pediatric Physical Therapy	Upper Limb Functional Strengthening Exercises versus conventional Exercises in Treatment of Children and Adolescent with Hemiplegic Cerebral Palsy.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2017
12	Ahmed Aljamdi Master in advanced physiotherapy: Cardiorespiratory and paediatrics.	What is the relation between the weakness of each lower-limb muscle group and walking speed in ambulatory spastic cerebral palsy children?	University College London, UK.	2015
13	Samy H. Ewemar Master program of Rehabilitation Sciences	Satisfactory environmental adaptation for physically disabled in main general hospitals of Gaza strip.	Faculty of Education, The Islamic University-Gaza.	2007
14	Mohammed Hussein Kraizem Master program of Rehabilitation Sciences	Activity limitation and Community integration among adults with spinal cord injuries.	Faculty of Education, The Islamic University-Gaza.	2007

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	Abdulmajeed Nasser Alotaibi. PhD Program of Pediatric Rehabilitation	Effectiveness of partial weight-supported treadmill training exercises in the treatment of children with cerebral palsy. A systematic review and meta-analysis.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2022
2	Abdulmajeed Nasser Alotaibi. PhD Program of Pediatric Rehabilitation	Partial Body Weight Support Treadmill Training versus Loaded Treadmill Training in Treatment of Children with Cerebral Palsy. A Randomized Clinical Trial.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2022
3	Abdullah Alanazi. PhD Program of	The effectiveness of all forms of lower limb CIMT on motor	Department of Physical Therapy, College of Applied Medical Sciences,	2022

	Pediatric Rehabilitation	performance in children with CP. Systematic review and meta-analysis.	Imam Abdulrahman Bin Faisal University, KSA.	
4	Abdullah Alanazi PhD Program of Pediatric Rehabilitation	Lower limb CIMT using the robotic Hybrid Assistive Limb (HAL) training versus the assisted HAL training on motor performance in children with cerebral palsy: A Randomized Control Crossover Trial	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2022
5	Doha Wadi Binsaddiq. Master Program of Pediatric Physical Therapy	Body composition and adiposity in children with down syndrome compared to typically developed children: The association with motor performance. A cross-sectional study.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2023
6	Atheer Sami Alruwaili. Master Program of Pediatric Physical Therapy	Foot pressure profile for the paretic and non-paretic lower extremities in children with spastic hemiplegic cerebral palsy: The relationship with postural stability. A cross-sectional study.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2023
7	Ahmed Abdurahman Al-Talhi. Master Program of Pediatric Physical Therapy	Exploring current pediatric rehabilitation facilities and their implementation of Key Performance Indicators (KPI) standards and Comparing Patient Satisfaction in the Western Region of Saudi Arabia in a cross-sectional study. University, KSA.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2023
8	Maha Ali Alsalatin. Master Program of Pediatric Physical Therapy	Assessment of bone mineral density in children with developmental dysplasia of the hip joint. The possible risk factors for osteopenia and osteoporosis.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2023
9	Raghad Abdullah Alharbi. Master Program of Neurological Physical Therapy	The association between smartphone overuse or addiction and physical activities, sleep quality, social isolation, academic achievement, and anxiety in young adults. A cross-sectional study.	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, KSA.	2023

Administrative Responsibilities, Committee and Community Service

(Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	2020	Current	General Director of the Postgraduate Studies (Master, PhD)	Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA.
2	2019	Current	Coordinator	Pediatric Rehabilitation PhD Program, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA
3	2015	Current	Member	PHD Program Planning Committee, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA
4	2011	Current	Coordinator	Pediatric Physical Therapy Master Program, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA
5	2010	Current	Representative of the Physical Therapy Department	Quality Planning Unit of College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA

Committee Membership

#	From	To	Position	Organization
1	2023	Current	Member	Development and Community Partnership Affairs, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA.
2	2018	Current	Member	Steering committee for quality and accreditation (Postgraduate Programs), Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA.
3	2016	2018	Chairperson	Planning committee for the bridging program, Department of Physical Therapy, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA.
	2011	2017	Chairperson	Physical Therapy Department Curriculum, Quality, and Accreditation Committee, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA
4	2011	2014	Chairperson	Physical Therapy Department Curriculum Committee, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA
5	2010	2013	Member	College Research Committee, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University, Dammam, KSA

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

#	From	To	Type of Volunteer	Organization

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Computer skills: efficient windows and office user
2	Excellent knowledge of SPSS and Endnote citation manager
3	A certificate awarded from the high institute of statistics, Cairo University, Giza, Egypt.
4	Physical Therapy Laboratories operation: • Grail VR (Certified operator) • BIODEX and Technobody balance system

Last Update

28/10/2024